

**Groundwater Sampling and
NAPL Monitoring/Recovery Report
for the Third Quarter of 2010
(July - September 2010)
for the Hempstead Intersection Street
Former Manufactured Gas Plant Site
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 THIRD QUARTER OF 2010 (JULY – SEPTEMBER)**

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

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December 2010

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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 third quarter (July, August, and September) of 2010.

Groundwater monitoring and sampling was conducted on July 19 to 29, 2010. This included measuring the depth to groundwater and NAPL thickness in 82 wells. Groundwater samples were collected from 16 wells and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs).

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

- The general direction of groundwater flow in shallow, intermediate, and deep water-bearing zones was south at an average gradient of approximately 0.002 ft/ft.
- The dissolved-phase plume extended approximately 3,600 feet south of the site boundary.
- DNAPL was detected in 30 wells during the third quarter of 2010. The wells were located on site or within the parking lot immediately south of the site.
- The volume of NAPL recovered from the site wells ranged from approximately 5 to 16 gallons per event. Approximately 80 gallons of NAPL were recovered during the third quarter of 2010. Approximately 622 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the third quarter 2010 data and the previous data the concentrations of dissolved phase total BTEX and total PAHs remained stable in the site monitoring wells.

1.0 INTRODUCTION

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

URS Corporation (URS) performed the following activities during the third quarter of 2010:

- Measured the depth to groundwater and NAPL thickness in accessible monitoring wells (July 19 to 22, 2010).
- Collected groundwater samples from 16 monitoring wells for laboratory analysis (July 22 to 29, 2010).
- Recovered NAPL from monitoring wells and piezometers (July 7, July 22, August 2, August 19, September 2, September 17, and September 29, 2010).

Quarterly groundwater monitoring and bimonthly recovery of NAPL was initiated in April 2007. Separate reports have been issued for quarterly activities performed in 2007, 2008, 2009 and 2010, and annual reports were issued that encompassed the last three quarters of 2007 and all four quarters of 2008 and 2009.

2.0 FIELD ACTIVITIES

The field activities performed by URS are summarized below.

- Measurement of the depth to groundwater and NAPL thickness in 82 monitoring wells.
- Collection of groundwater samples from 16 monitoring wells.
- Recovery of NAPL from accessible monitoring wells that contained measurable NAPL.

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

2.1 Groundwater Depth and NAPL Thickness Measurements

Depths to groundwater and NAPL thickness measurements are listed in Table 2. An electronic water level indicator was used to measure the depth to groundwater. NAPL thickness was measured using an oil/water interface probe and a weighted cotton string coated with oil indicator paste.

2.2 NAPL Recovery

NAPL was recovered from 28 wells during 7 events from July to September 2010 (Table 3). All measured NAPL consisted of dense non-aqueous phase liquid (DNAPL) located at the bottom of the wells. The DNAPL was recovered using a Waterra inertial lift pump. The quantity of the recovered NAPL was estimated based on the volume contained inside the well prior to pumping.

2.3 Ground Water Sampling

Low-flow groundwater sampling methods were used, which consisted of purging groundwater at a rate of between 100 and 250 milliliters per minute. The water was pumped through a flow-through cell and monitored for pH, conductivity, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP). Purging was continued until stable conditions were achieved (defined as three consecutive stable readings [i.e. ± 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).

2.4 Soil Vapor Sampling

Soil vapor sampling was conducted by GEI Consultants in the second quarter of 2010. Sampling occurred at three vapor points (HIVP-16, HIVP-17, and HIVP-18) within the community on June 11, 2010 (see Figure 2 for soil vapor point locations).

3.0 RESULTS

3.1 Dissolved-Phase Plume

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

In July 2010, the concentrations of total BTEX or total PAHs in the furthest downgradient well pair (HIMW-015I/D) ranged from “not detected” (deep well, HIMW-15D) to 29 µg/L (intermediate well, HIMW-15I). The concentrations of total BTEX or total PAHs varied from “not detected” to 2,949 µg/L for wells located between the site and the HIMW-015 cluster.

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 30 wells during the third quarter 2010 (Table 3). Figure 7 illustrates the thickness of DNAPL that was measured on July 21 to 22, 2010. Figures 8A – 8AH provide cumulative NAPL recovery and NAPL thickness plots for the period December 2003 to September 2010. All of the wells where DNAPL was identified are either on the site or within a parking lot that is immediately south of the site.

3.3 Groundwater Analytical Results

Groundwater analytical results are summarized in Table 4 and illustrated on Figure 7.

A Data Usability Summary Report (DUSR) was prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of

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

3.4 NAPL Recovery Volumes

Approximately 80 gallons of NAPL were recovered from 28 wells (Table 3). The volume of NAPL recovered varied from approximately 5 to 16 gallons per event. Approximately 622 gallons of NAPL have been recovered since April 2007.

3.5 Soil Vapor Analytical Results

Soil vapor analytical results from the second quarter of 2010 can be found in Appendix B. Analytical results are compared to the NYSDOH Upper Fence Outdoor Air Concentrations.

4.0 SUMMARY

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

- The general direction of groundwater flow in the shallow, intermediate, and deep water-bearing zones was south at an average gradient of 0.002 ft/ft.
- The dissolved-phase plume extended approximately 3,600 feet south of the site boundary.
- DNAPL was detected in 30 wells during the third quarter of 2010. The wells were located on site or within the parking lot immediately south of the site.
- The volume of NAPL recovered from the site wells varied from approximately 5 to 16 gallons per event. Approximately 80 gallons of NAPL were recovered during the third quarter of 2010. Approximately 622 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the third quarter 2010 data and the previous data the concentrations of total BTEX and total PAHs remained stable in the site monitoring wells.
- Analytical results for soil vapor sampling conducted in the second quarter of 2010 are presented in Appendix B.

TABLES

Table 1

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

Well ID	Monitoring & Sampling (July 19-29, 2010)			NAPL Monitoring and Recovery						
	Groundwater Level	NAPL Thickness	Water Quality	Sept. 29, 2010	Sept. 17, 2010	Sept. 2, 2010	August 19, 2010	August 2, 2010	July 22, 2010	July 7, 2010
HIMW-001S	X	X		X	X		X		X	
HIMW-001I	X	X		X	X	X	X	X	X	X
HIMW-001D										
HIMW-002S	X									
HIMW-002I	X									
HIMW-002D	X									
HIMW-003S	X									
HIMW-003I	X									
HIMW-003D	X									
HIMW-004S										
HIMW-004I	X									
HIMW-004D	X									
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	
HIMW-006D	X	X							X	
HIMW-007S	X	X		X	X	X	X	X	X	X
HIMW-007I	X	X			X		X		X	
HIMW-007D	X	X			X		X		X	
HIMW-008S	X		X							
HIMW-008I	X		X							
HIMW-008D	X		X							
HIMW-009S	X									
HIMW-009I	X									
HIMW-009D	X									
HIMW-010S	X									
HIMW-010I	X									
HIMW-010D	X									
HIMW-011S	X	X			X		X		X	
HIMW-011I	X	X			X				X	
HIMW-011D							X			
HIMW-012S	X		X							
HIMW-012I	X		X							
HIMW-012D	X		X							
HIMW-013S										
HIMW-013I	X		X							
HIMW-013D	X		X							
HIMW-014I	X		X							
HIMW-014D										
HIMW-015I	X		X							
HIMW-015D	X		X							
HIMW-016S	X	X		X	X		X		X	X
HIMW-016I	X	X		X	X		X		X	X
HIMW-017S	X	X			X	X	X		X	X

Table 1

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

Well ID	Monitoring & Sampling (July 19-29, 2010)			NAPL Monitoring and Recovery						
	Groundwater Level	NAPL Thickness	Water Quality	Sept. 29, 2010	Sept. 17, 2010	Sept. 2, 2010	August 19, 2010	August 2, 2010	July 22, 2010	July 7, 2010
HIMW-018S	X	X		X	X		X	X	X	
HIMW-018I	X	X			X		X		X	
HIMW-019S	X	X			X		X		X	
HIMW-019I	X	X			X		X		X	
HIMW-020S	X		X							
HIMW-020I	X		X							
HIMW-21	X	X		X	X		X		X	
PZ-02										
PZ-03										
PZ-08	X	X		X	X	X	X	X	X	X
IPR-01	X	X			X		X		X	
IPR-02	X	X		X	X	X	X		X	X
IPR-03	X	X			X		X		X	
IPR-04	X	X			X		X		X	
IPR-05	X	X					X		X	
IPR-06	X	X		X	X	X	X	X	X	X
IPR-07	X	X			X		X		X	
IPR-08	X	X			X		X		X	
IPR-09	X	X			X		X		X	
IPR-10	X	X			X		X		X	
IPR-11	X	X			X		X		X	
IPR-12A	X	X			X		X		X	
IPR-12B	X	X			X		X		X	
IPR-13	X	X			X		X		X	
IPR-14	X	X			X		X		X	
IPR-15	X	X			X		X		X	
IPR-16	X	X		X	X		X		X	
IPR-17	X	X			X		X		X	
IPR-18	X	X			X		X		X	
IPR-19S										
IPR-19D	X	X			X		X		X	
IPR-20	X	X		X	X		X		X	
IPR-21	X	X		X	X		X		X	X
IPR-22	X	X			X	X	X	X	X	X
IPR-23	X	X			X		X		X	
IPR-24	X	X			X		X		X	
IPR-25				X						X
IPR-26	X	X			X	X	X	X	X	X
IPR-27	X	X		X	X	X	X	X	X	X
IPR-28	X	X			X		X		X	
IPR-29	X	X			X	X	X		X	X
IPR-30	X	X			X		X		X	
OSMW-01	X	X			X		X		X	
OSMW-02	X	X			X		X		X	
OSMW-03	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
Groundwater and NAPL Measurements
Third Quarter 2010
Hempstead Intersection Street Former MGP Site

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL ⁽²⁾	Corrected Potentiometric Head ⁽¹⁾
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-01S	7/21/2010	71.61	ND	23.71	40.81	40.86	0	0.05	47.90
HIMW-01I	7/21/2010	71.68	ND	23.86	85.75	85.85	0	0.10	47.82
HIMW-01D	NM	71.95	ND	NM	ND	129.08	0	ND	NM
HIMW-02S	7/20/2010	73.82	ND	25.70	ND	42.35	0	ND	48.12
HIMW-02I	7/20/2010	78.87	ND	25.82	ND	92.90	0	ND	53.05
HIMW-02D	7/20/2010	74.13	ND	25.99	ND	118.98	0	ND	48.14
HIMW-03S	7/20/2010	65.00	ND	17.22	ND	34.80	0	ND	47.78
HIMW-03I	7/20/2010	64.94	ND	17.57	ND	87.10	0	ND	47.37
HIMW-03D	7/20/2010	65.26	ND	18.35	ND	145.50	0	ND	46.91
HIMW-04S	NM	72.74	ND	NM	ND	41.70	0	ND	NM
HIMW-04I	7/20/2010	72.78	ND	25.83	ND	90.60	0	ND	46.95
HIMW-04D	7/20/2010	72.65	ND	26.72	ND	180.50	0	ND	45.93
HIMW-05S	7/19/2010	67.19	ND	19.91	ND	39.10	0	ND	47.28
HIMW-05I	7/19/2010	67.22	ND	20.23	ND	92.30	0	ND	46.99
HIMW-05D	7/19/2010	67.22	ND	21.23	ND	139.00	0	ND	45.99
HIMW-06S	7/21/2010	68.25	ND	20.72	32.60	36.90	0	4.30	47.53
HIMW-06I	7/21/2010	67.88	ND	20.52	82.17	82.18	0	sheen	47.36
HIMW-06D	7/21/2010	67.77	ND	20.43	ND	119.95	0	0.00	47.34
HIMW-07S	7/21/2010	70.47	ND	22.90	40.04	40.74	0	0.70	47.57
HIMW-07I	7/21/2010	70.10	ND	22.91	ND	90.58	0	0.00	47.19
HIMW-07D	7/21/2010	70.40	ND	22.85	ND	117.65	0	0.00	47.55
HIMW-08S	7/19/2010	65.04	ND	18.11	ND	37.05	0	ND	46.93
HIMW-08I	7/19/2010	65.14	ND	18.33	ND	75.10	0	ND	46.81
HIMW-08D	7/19/2010	64.93	ND	18.14	ND	114.75	0	ND	46.79
HIMW-09S	7/20/2010	70.03	ND	22.69	ND	39.61	0	ND	47.34
HIMW-09I	7/20/2010	69.93	ND	22.64	ND	80.50	0	ND	47.29
HIMW-09D	7/20/2010	69.96	ND	22.77	ND	NM	0	ND	47.19
HIMW-10S	7/20/2010	71.60	ND	23.84	ND	40.27	0	ND	47.76
HIMW-10I	7/20/2010	71.47	ND	23.74	ND	91.83	0	ND	47.73
HIMW-10D	7/20/2010	71.44	ND	23.72	ND	136.02	0	ND	47.72
HIMW-11S	7/20/2010	71.62	ND	23.71	ND	41.55	0	0.00	47.91
HIMW-11I	7/20/2010	71.43	ND	23.52	ND	94.54	0	0.00	47.91
HIMW-11D	NM	71.39	ND	NM	ND	123.61	0	ND	NM
HIMW-12S	7/19/2010	61.58	ND	15.91	ND	33.47	0	ND	45.67
HIMW-12I	7/19/2010	61.59	ND	15.78	ND	75.00	0	ND	45.81
HIMW-12D	7/19/2010	61.82	ND	19.26	ND	128.45	0	ND	42.56
HIMW-13S	NM	72.83	ND	NM	ND	49.20	0	ND	NM
HIMW-13I	7/19/2010	72.60	ND	28.83	ND	82.55	0	ND	43.77
HIMW-13D	7/19/2010	72.53	ND	28.85	ND	122.50	0	ND	43.68
HIMW-14I	7/19/2010	71.71	ND	27.94	ND	96.90	0	ND	43.77
HIMW-14D	NM	71.59	ND	NM	ND	152.00	0	ND	NM
HIMW-15I	7/19/2010	64.18	ND	23.96	ND	93.10	0	ND	40.22
HIMW-15D	7/19/2010	63.96	ND	27.17	ND	155.00	0	ND	36.79
HIMW-16S	7/22/2010	67.45	ND	20.02	31.01	34.41	0	3.40	47.43
HIMW-16I	7/22/2010	67.50	ND	20.25	78.86	82.66	0	3.80	47.25
HIMW-17S	7/21/2010	65.96	ND	18.83	35.50	36.70	0	1.20	47.13
HIMW-18S	7/21/2010	69.76	ND	22.16	42.11	42.12	0	sheen	47.60
HIMW-18I	7/21/2010	69.70	ND	21.96	ND	71.22	0	0.00	47.74
HIMW-19S	7/21/2010	70.95	ND	22.90	ND	39.38	0	0.00	48.05
HIMW-19I	7/21/2010	71.27	ND	23.07	ND	68.92	0	0.00	48.20
HIMW-20S	7/19/2010	70.43	ND	24.03	ND	35.00	0	ND	46.40
HIMW-20I	7/19/2010	70.30	ND	23.91	ND	73.00	0	ND	46.39

Table 2
Groundwater and NAPL Measurements
Third Quarter 2010
Hempstead Intersection Street Former MGP Site

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL ⁽²⁾	Corrected Potentiometric Head ⁽¹⁾
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-21	7/21/2010	NM	ND	18.47	NM	NM	0	0.40	NM
PZ-02	NM	72.96	ND	NM	ND	35.25	0	ND	NM
PZ-03	NM	64.58	ND	NM	ND	29.49	0	ND	NM
PZ-08	7/21/2010	70.51	ND	22.62	34.55	35.50	0	0.95	47.89
IPR-01	7/21/2010	70.30	ND	22.23	ND	41.94	0	0.00	48.07
IPR-02	7/21/2010	68.84	ND	20.88	69.45	70.25	0	0.80	47.96
IPR-03	7/21/2010	69.16	ND	21.28	ND	44.67	0	0.00	47.88
IPR-04	7/21/2010	69.23	ND	21.21	ND	84.35	0	0.00	48.02
IPR-05	7/21/2010	70.39	ND	22.51	50.42	52.12	0	1.70	47.88
IPR-06	7/21/2010	70.79	ND	22.97	54.40	55.40	0	1.00	47.82
IPR-07	7/21/2010	69.73	ND	22.15	ND	38.02	0	0.00	47.58
IPR-08	7/21/2010	70.51	ND	22.87	ND	40.33	0	0.00	47.64
IPR-09	7/21/2010	70.00	ND	22.38	44.94	44.95	0	sheen	47.62
IPR-10	7/21/2010	70.80	ND	23.05	ND	44.75	0	0.00	47.75
IPR-11	7/21/2010	68.29	ND	20.74	ND	44.62	0	0.00	47.55
IPR-12A	7/21/2010	70.14	ND	22.54	38.09	38.10	0	sheen	47.60
IPR-12B	7/21/2010	69.56	ND	21.97	ND	45.18	0	0.00	47.59
IPR-13	7/21/2010	70.77	ND	23.07	ND	44.41	0	0.00	47.70
IPR-14	7/22/2010	66.93	ND	19.45	ND	44.42	0	0.00	47.48
IPR-15	7/22/2010	67.93	ND	20.41	44.35	44.40	0	0.05	47.52
IPR-16	7/22/2010	69.49	ND	21.94	48.85	49.05	0	0.20	47.55
IPR-17	7/22/2010	70.60	ND	22.99	54.10	54.11	0	sheen	47.61
IPR-18	7/22/2010	66.87	ND	19.52	ND	49.95	0	0.00	47.35
IPR-19S	NM	67.68	ND	NM	ND	45.12	0	ND	NM
IPR-19D	7/22/2010	67.96	ND	20.58	89.91	89.92	0	sheen	47.38
IPR-20	7/21/2010	66.70	ND	19.42	45.26	45.40	0	0.14	47.28
IPR-21	7/21/2010	67.67	ND	20.31	44.16	44.96	0	0.80	47.36
IPR-22	7/21/2010	66.33	ND	19.19	44.30	45.40	0	1.10	47.14
IPR-23	7/21/2010	66.67	ND	19.46	ND	45.40	0	0.00	47.21
IPR-24	7/21/2010	65.88	ND	18.91	44.01	44.35	0	0.34	46.97
IPR-25	NM	70.56	ND	NM	ND	44.50	0	ND	NM
IPR-26	7/21/2010	NM	ND	22.21	NM	NM	0	sheen	NM
IPR-27	7/21/2010	NM	ND	22.95	NM	NM	0	0.30	NM
IPR-28	7/21/2010	NM	ND	20.45	NM	NM	0	0.00	NM
IPR-29	7/21/2010	NM	ND	18.74	NM	NM	0	0.90	NM
IPR-30	7/22/2010	NM	ND	19.81	NM	NM	0	0.00	NM
IPR-31	NM	NM	ND	NM	NM	NM	0	ND	NM
OSMW-01	7/20/2010	71.12	ND	23.07	42.15	42.15	0	0.00	48.05
OSMW-02	7/21/2010	71.59	ND	23.81	45.22	45.22	0	0.00	47.78
OSMW-03	7/20/2010	71.39	ND	23.69	44.73	44.73	0	0.00	47.70

Notes:

- (1) Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96
- (2) DNAPL thicknesses measured on 7/21/2010 - 7/22/2010
- sheen Sheen = assumed thickness of 0.01 ft
- NM not measured
- LNAPL light non-aqueous phase liquid
- DNAPL dense non-aqueous phase liquid
- TOR top of riser
- amsl above mean sea level
- ND NAPL not detected

**Table 3
NAPL Recovery
Third Quarter of 2010
Hempstead Intersection Street Former MGP Site**

Well ID	September 29, 2010			September 17, 2010			September 2, 2010			August 19, 2010			August 2, 2010			July 22, 2010			July 7, 2010		
	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	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-01S	0	0.01	0.00	0	0.50	0.08	NI	NI	0.00	0	0.01	0.00	NI	NI	0.00	0	0.05	0.01	NI	NI	0.00
HIMW-01I	0	0.40	0.07	0	1.40	0.23	0	0.20	0.03	0	0.40	0.07	0	0.85	0.14	0	0.10	0.02	0	0.01	0.00
HIMW-06S	0	2.90	0.47	0	2.90	0.47	0	5.00	0.82	0	3.00	0.49	0	6.00	0.98	0	4.30	0.70	0	2.11	0.34
HIMW-06I	0	0.00	0.00	0	0.50	0.08	NI	NI	0.00	0	0.02	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
HIMW-07S	0	1.20	0.20	0	1.80	0.29	0	0.35	0.06	0	1.20	0.20	0	1.40	0.23	0	0.70	0.11	0	0.90	0.15
HIMW-07I	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-07D	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-11S	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-11I	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-16S	0	2.40	0.39	0	5.10	0.83	NI	NI	0.00	0	4.30	0.70	NI	NI	0.00	0	3.40	0.55	0	3.00	0.49
HIMW-16I	0	5.00	0.82	0	4.80	0.78	NI	NI	0.00	0	3.80	0.62	NI	NI	0.00	0	3.80	0.62	0	3.40	0.55
HIMW-17S	NI	NI	0.00	0	1.10	0.18	0	2.00	0.33	0	1.50	0.24	NI	NI	0.00	0	1.20	0.20	0	0.90	0.15
HIMW-18S	0	0.80	0.13	0	0.60	0.10	NI	NI	0.00	0	0.40	0.07	0	0.10	0.02	0	trace	0.00	NI	NI	0.00
HIMW-18I	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-19S	NI	NI	0.00	0	0.10	0.02	NI	NI	0.00	0	trace	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-19I	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-21	0	0.40	0.59	0	1.10	1.62	NI	NI	0.00	0	1.20	1.76	NI	NI	0.00	0	0.40	0.59	NI	NI	0.00
PZ-08	0	0.10	0.02	0	0.10	0.02	0	trace	0.00	0	0.80	0.13	0	1.10	0.18	0	0.95	0.16	0	0.70	0.11
IPR-02	0	0.50	0.73	0	0.30	0.44	0	trace	0.00	0	0.80	1.18	NI	NI	0.00	0	0.80	1.18	0	0.01	0.00
IPR-05	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	0	1.20	0.05	NI	NI	0.00	0	1.70	0.07	NI	NI	0.00
IPR-06	0	0.60	0.88	0	0.90	1.32	0	0.70	1.03	0	0.80	1.18	0	1.00	1.47	0	1.00	1.47	0	5.00	7.34
IPR-09	NI	NI	0.00	0	0.10	0.15	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
IPR-12A	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
IPR-14	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-15	NI	NI	0.00	0	0.10	0.15	NI	NI	0.00	0	trace	0.00	NI	NI	0.00	0	0.05	0.07	NI	NI	0.00
IPR-16	0	0.25	0.34	0	0.60	0.81	NI	NI	0.00	0	0.60	0.81	NI	NI	0.00	0	0.20	0.27	NI	NI	0.00
IPR-17	NI	NI	0.00	0	0.05	0.07	NI	NI	0.00	0	0.10	0.13	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
IPR-18	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-19D	NI	NI	0.00	0	trace	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
IPR-20	0	0.05	0.07	0	0.20	0.29	NI	NI	0.00	0	0.50	0.73	NI	NI	0.00	0	0.14	0.21	NI	NI	0.00
IPR-21	0	1.30	1.91	0	0.90	1.32	NI	NI	0.00	0	0.90	1.32	NI	NI	0.00	0	0.80	1.18	0	0.40	0.59
IPR-22	NI	NI	0.00	0	1.15	1.69	0	1.20	1.76	0	2.40	3.53	0	1.10	1.62	0	1.10	1.62	0	0.85	1.25
IPR-23	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-24	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.10	0.15	NI	NI	0.00	0	0.34	0.50	NI	NI	0.00
IPR-25	0	1.90	2.79	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	0	1.10	1.62
IPR-26	NI	NI	0.00	0	0.00	0.00	0	trace	0.00	0	0.30	0.44	0	0.15	0.22	0	trace	0.00	0	0.20	0.29
IPR-27	0	0.50	0.73	0	1.30	1.91	0	0.50	0.73	0	0.80	1.18	0	0.15	0.22	0	0.30	0.44	0	0.90	1.32
IPR-29	NI	NI	0.00	0	1.20	1.76	0	0.75	1.10	0	0.60	0.88	NI	NI	0.00	0	0.90	1.32	0	0.90	1.32
IPR-30	NI	NI	0.00	0	0.50	0.73	NI	NI	0.00	0	0.30	0.44	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00
	Volume Removed		10.14	Volume Removed		15.35	Volume Removed		5.86	Volume Removed		16.29	Volume Removed		5.07	Volume Removed		11.27	Volume Removed		15.53

Total volume recovered during the third quarter 2010:

79.51 gal

Total volume of NAPL recovered since April 2007:

621.7 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 (unless noted) and PZ monitoring wells are 2-inch diameter:

Vol = 0.163 gal / ft of well screen.

All IPR monitoring wells (unless noted) and HIMW-21 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 Third Quarter 2010

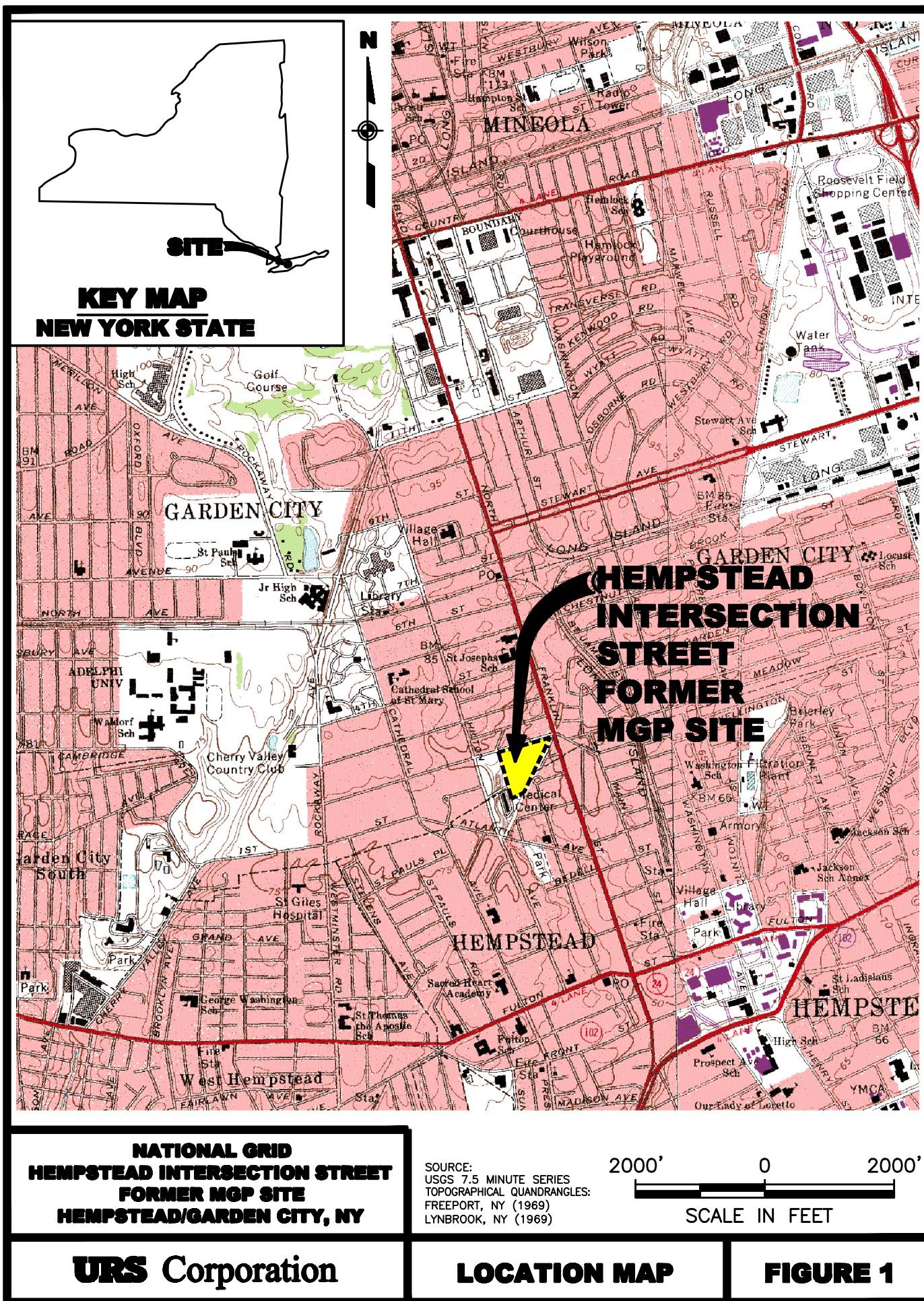
Well ID	Third Quarter 2010 (July 22-29, 2010) Concentrations	
	BTEX [ug/L]	PAH [ug/L]
HIMW-001D		
HIMW-001I		
HIMW-001S		
HIMW-002D		
HIMW-002I		
HIMW-002S		
HIMW-003D		
HIMW-003I		
HIMW-003S		
HIMW-004D		
HIMW-004I		
HIMW-004S		
HIMW-005D	359	2,344
HIMW-005I	186	2,949
HIMW-005S	ND	ND
HIMW-006D		
HIMW-006I		
HIMW-006S		
HIMW-007D		
HIMW-007I		
HIMW-007S		
HIMW-008D	ND	ND
HIMW-008I	ND	ND
HIMW-008S	ND	3
HIMW-009D		
HIMW-009I		
HIMW-009S		
HIMW-010D		
HIMW-010I		
HIMW-010S		
HIMW-011D		
HIMW-011I		
HIMW-011S		
HIMW-012D	ND	ND
HIMW-012I	54	125
HIMW-012S	ND	ND
HIMW-013D	4	17
HIMW-013I	313	104
HIMW-013S		
HIMW-014D		
HIMW-014I	41	32
HIMW-015D	ND	ND
HIMW-015I	20	29
HIMW-016I		
HIMW-016S		
HIMW-017S		
HIMW-018I		
HIMW-018S		
HIMW-019I		
HIMW-019S		
HIMW-020I	132	230
HIMW-020S	ND	ND
PZ-02		
PZ-03		
PZ-08		

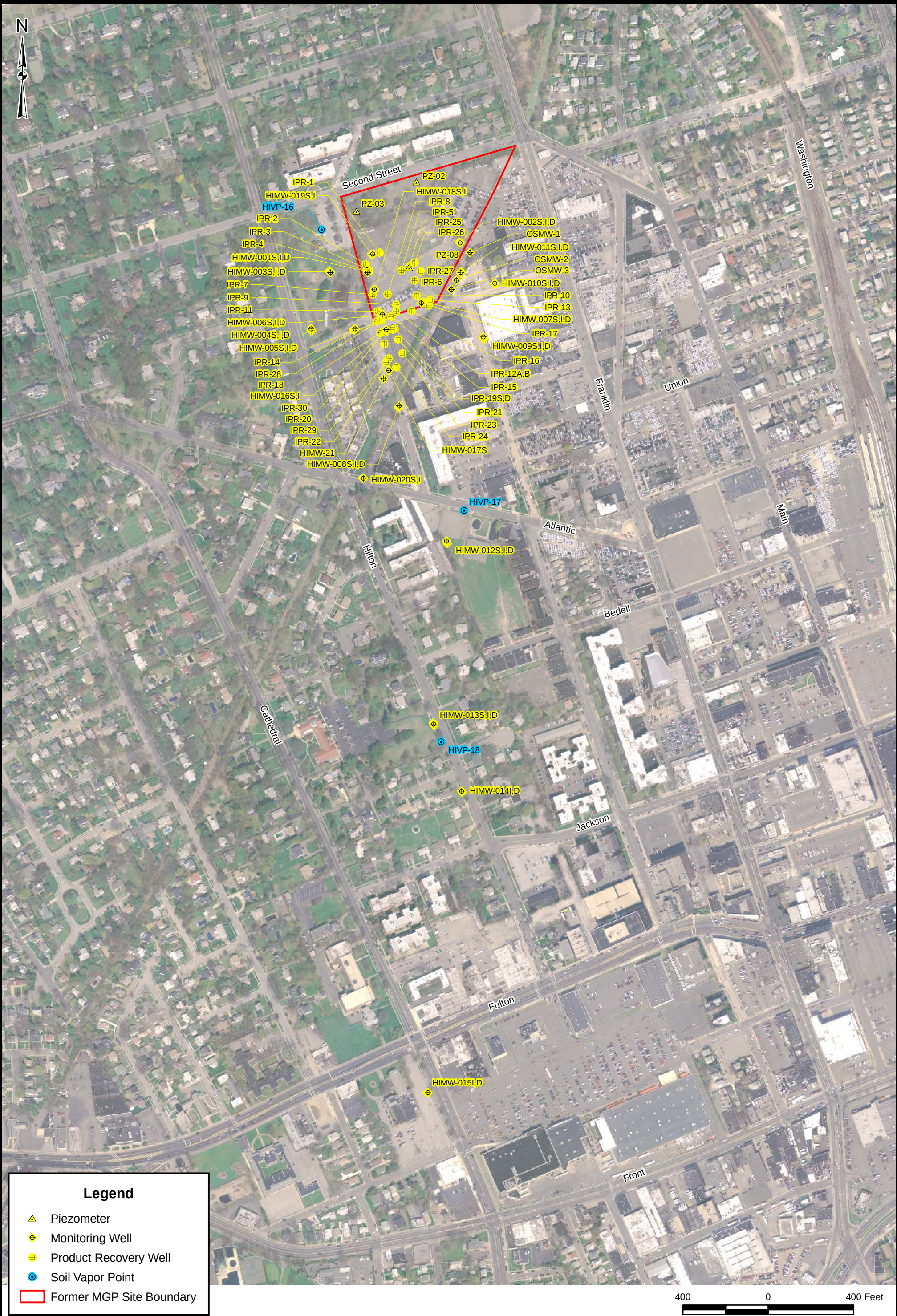
Notes:

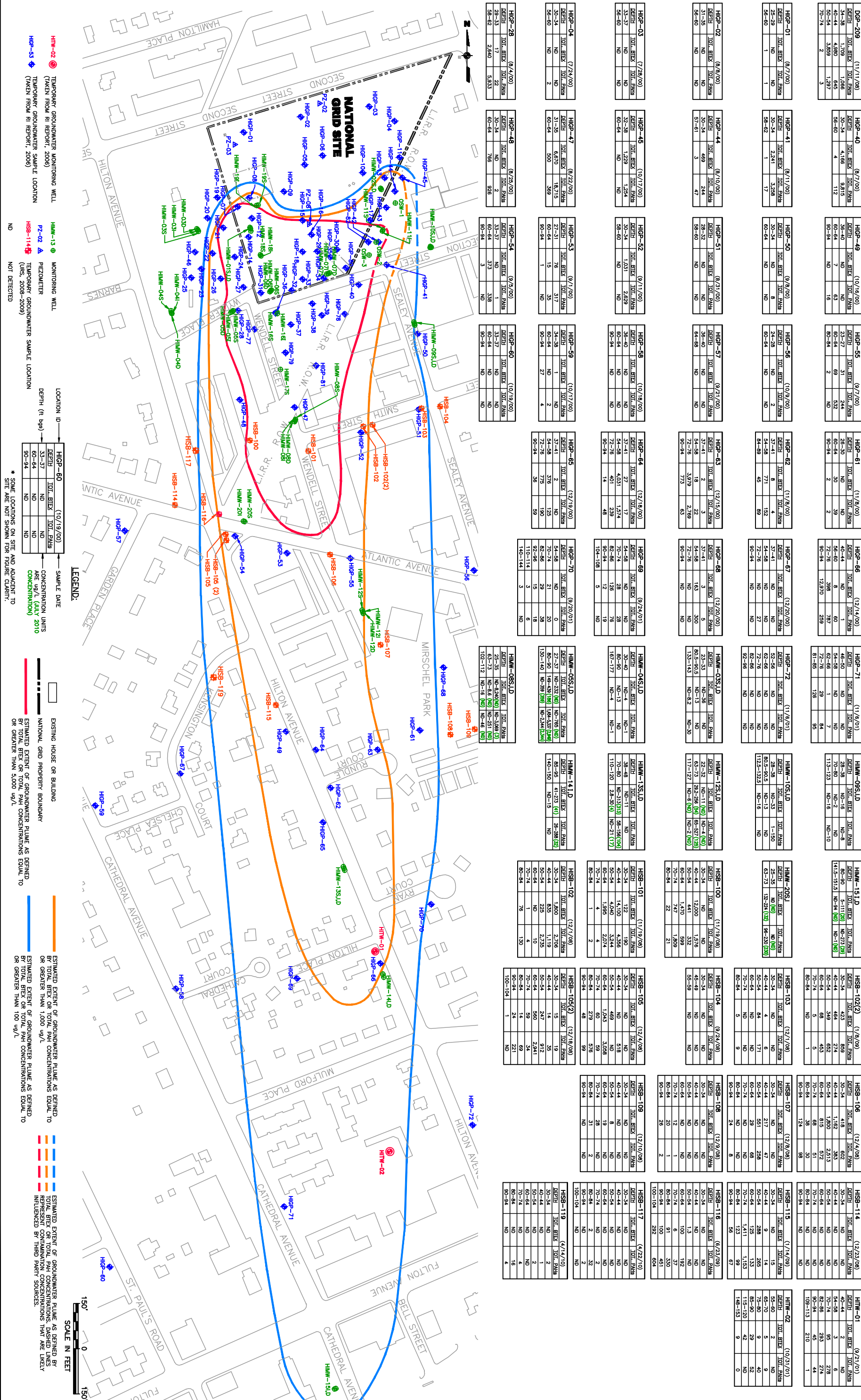
	A blank field is "Not Sampled".
	NAPL is periodically identified in this well.
ND	Not Detected.
ug/L	micrograms per liter

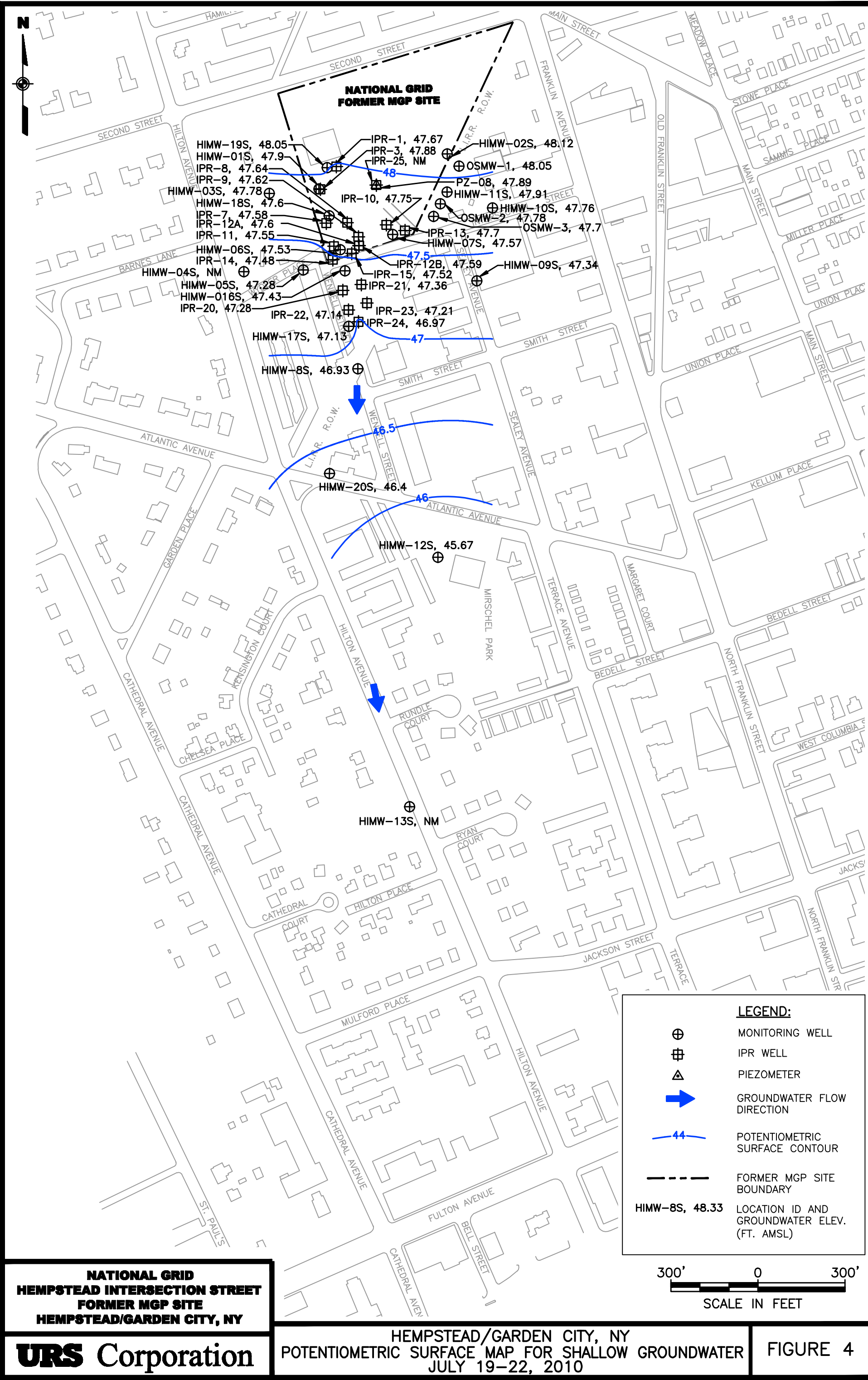
FIGURES

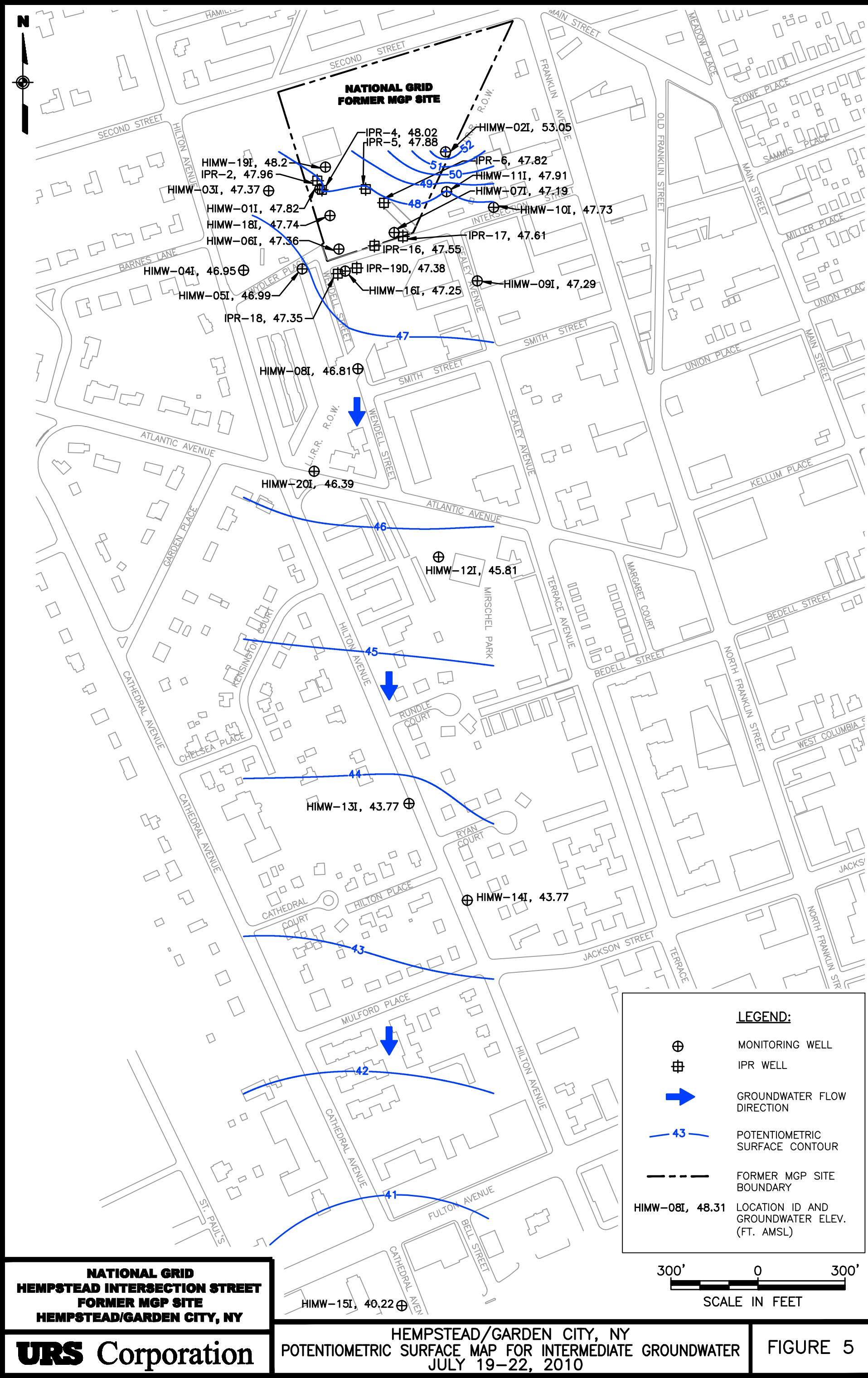
J:\11175065.00000\CAD\TASK2\HEMPSTEAD\GROUNDWATER MONITORING\FIGURE-1.dwg 3/13/09 - 1 RAL











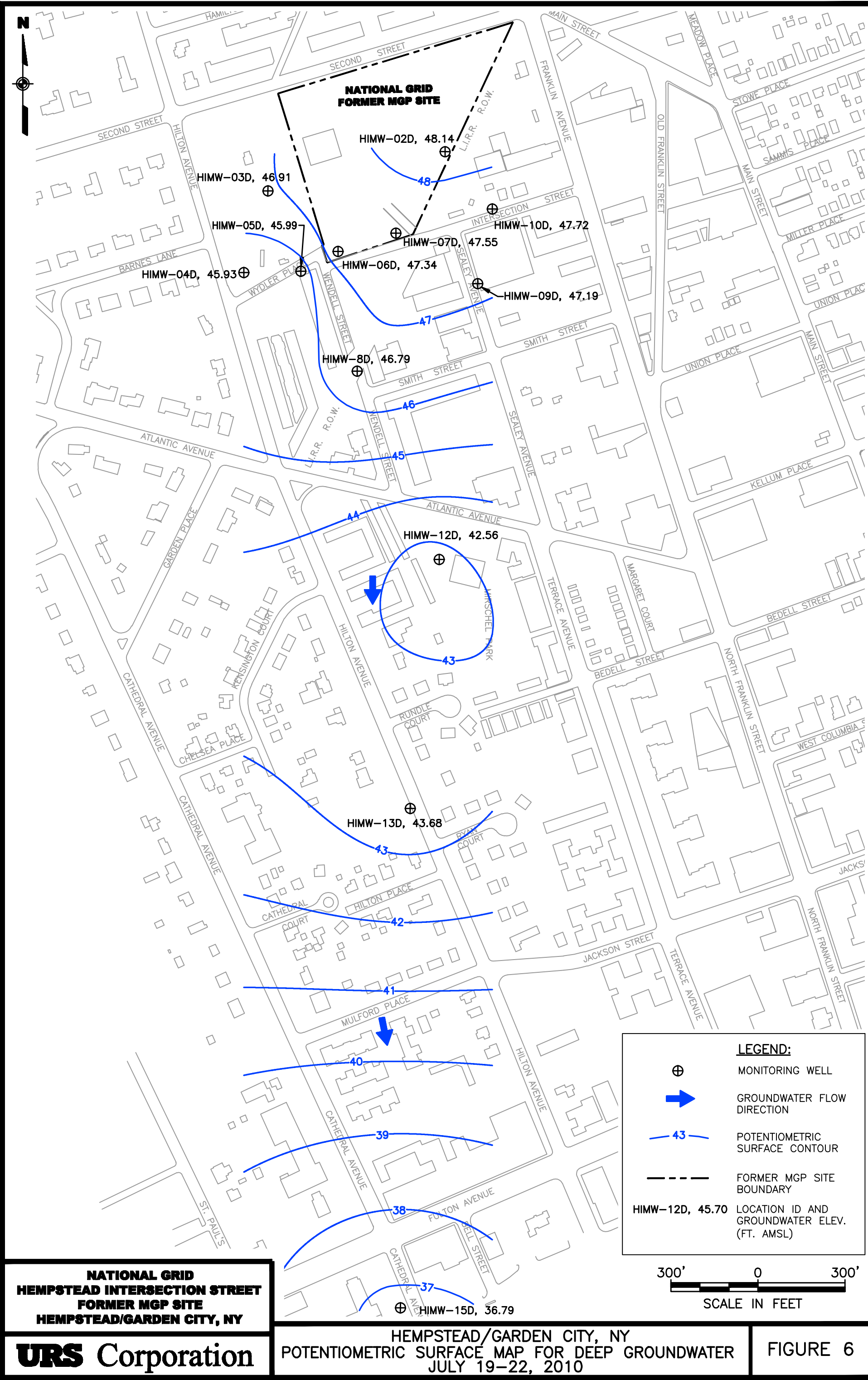




FIGURE 8A
Well HIMW-01S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

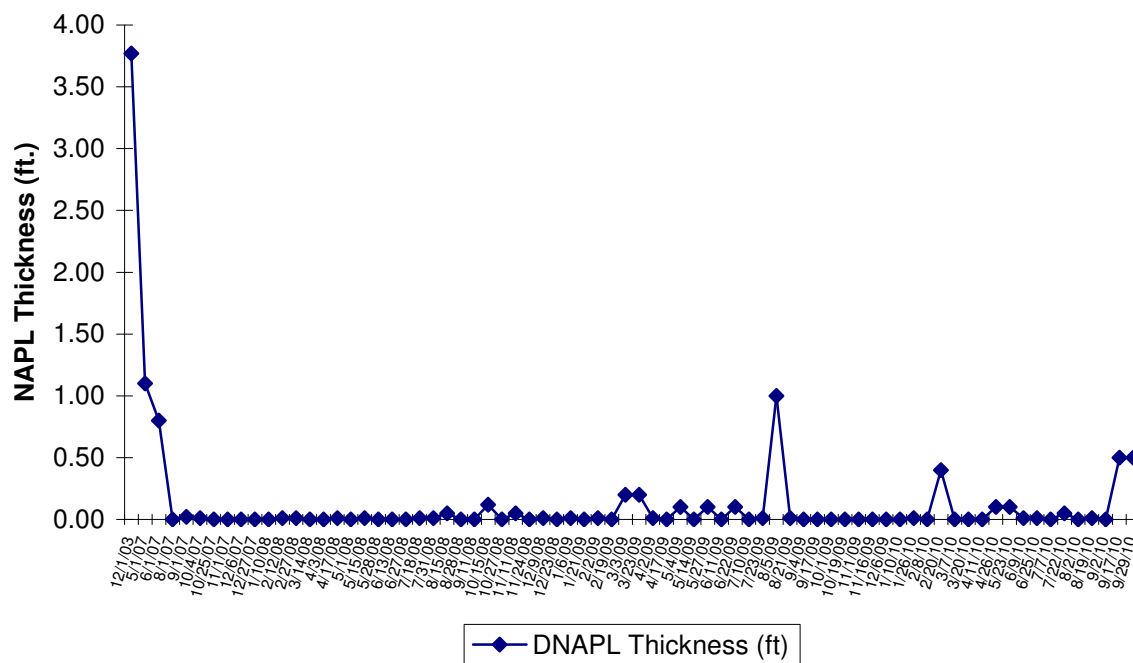
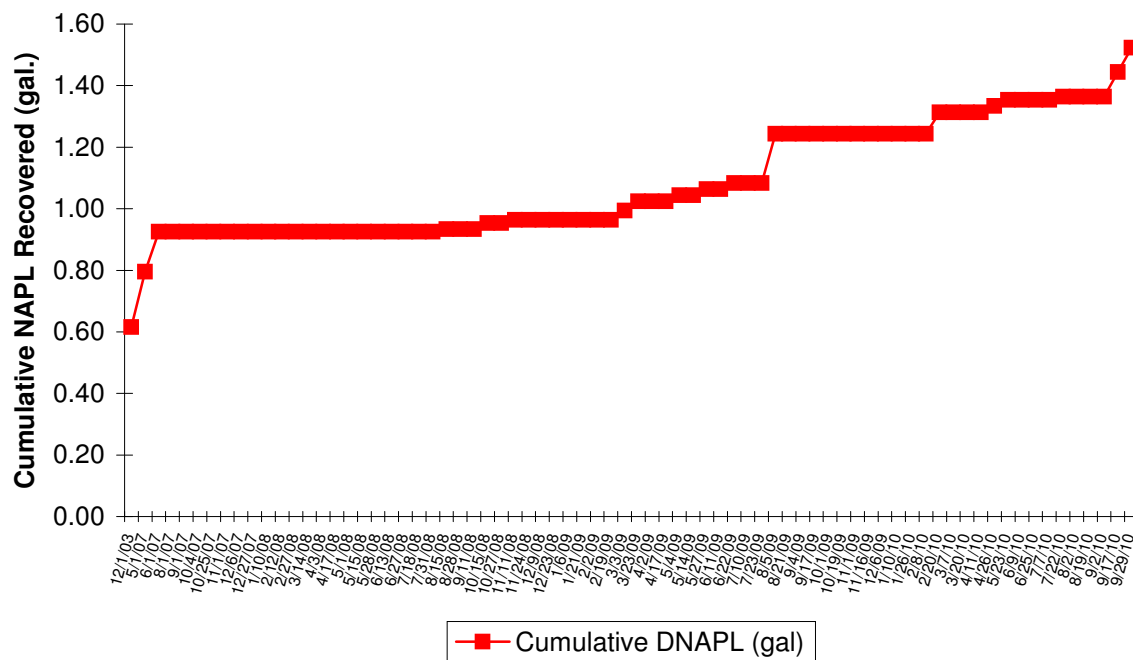


FIGURE 8B
Well HIMW-01I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

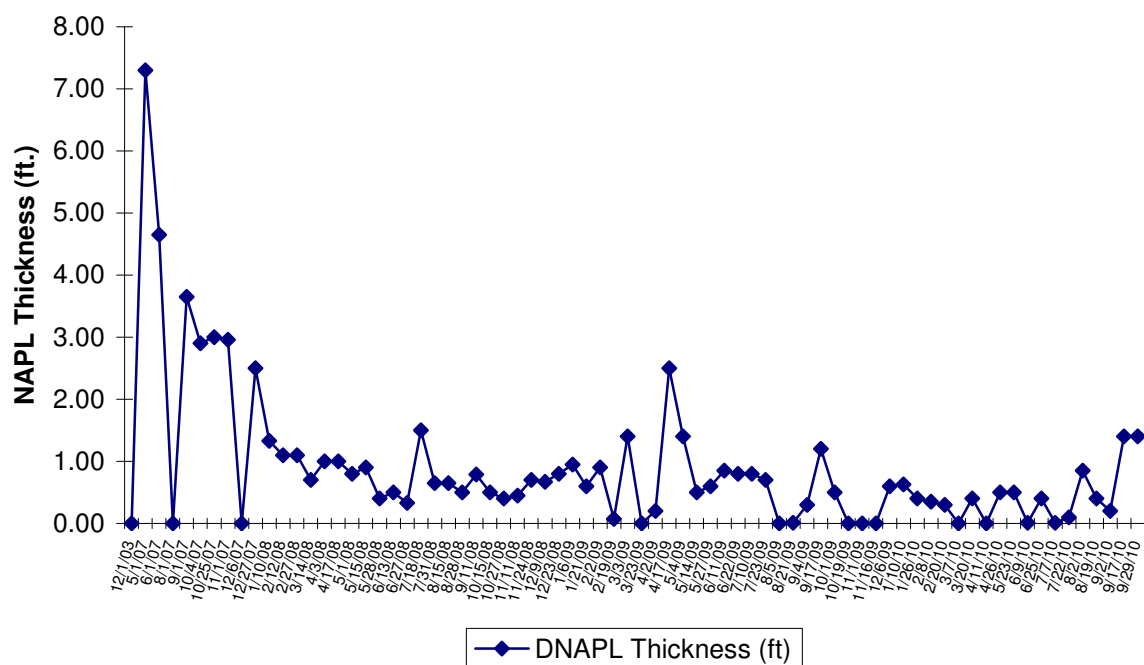
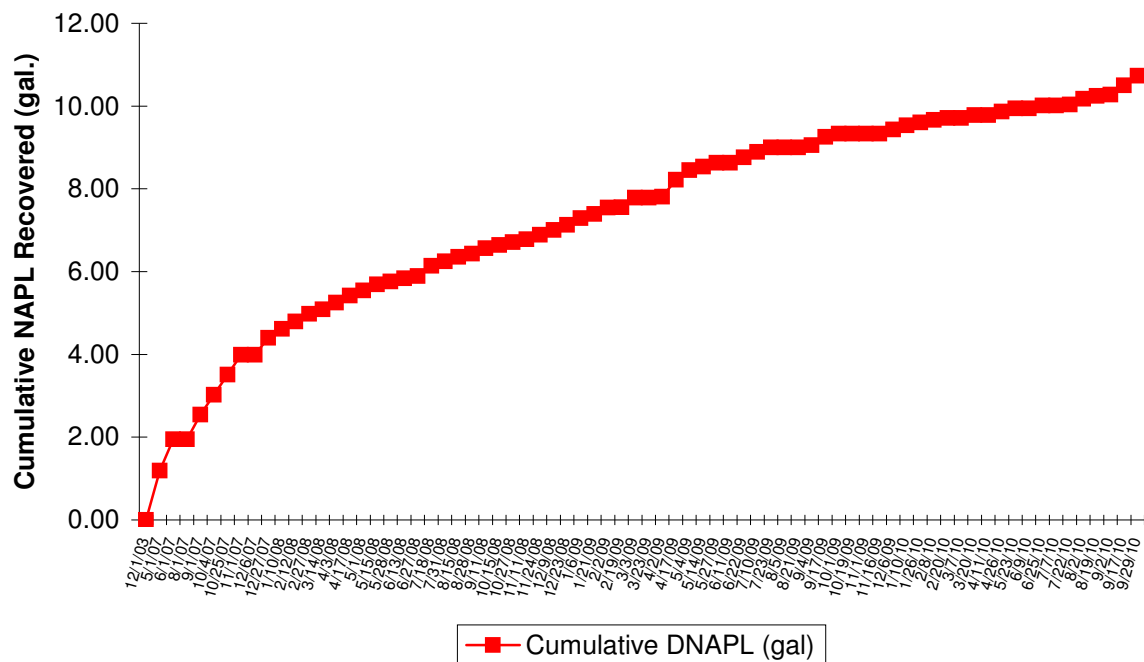


FIGURE 8C
Well HIMW-06S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

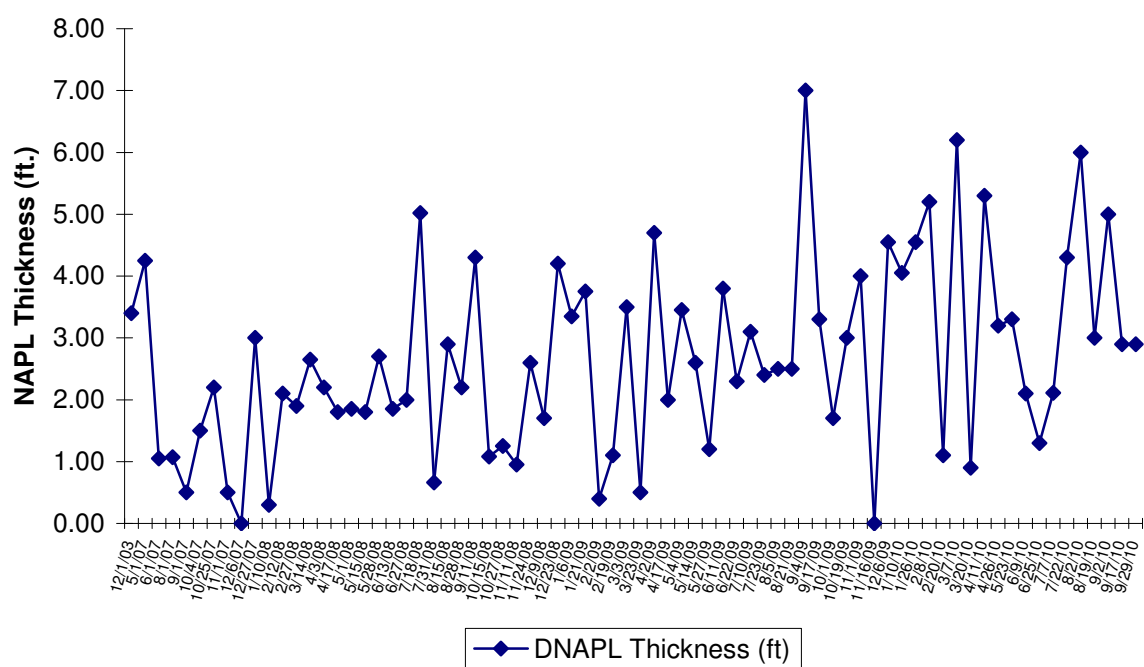
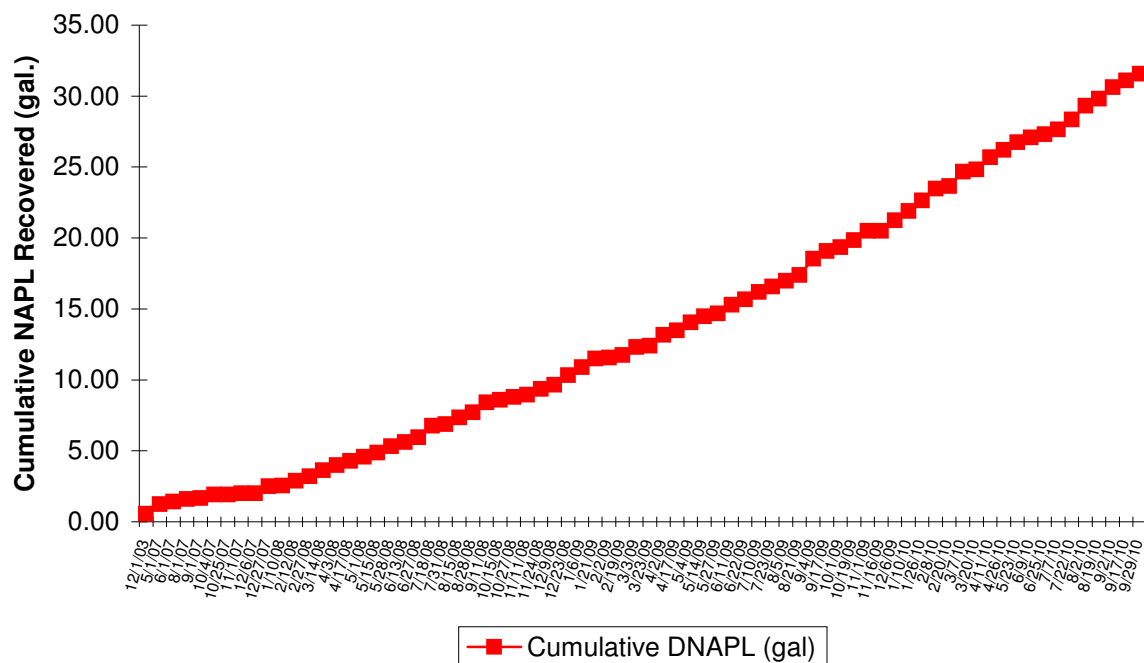


FIGURE 8D
Well HIMW-06I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

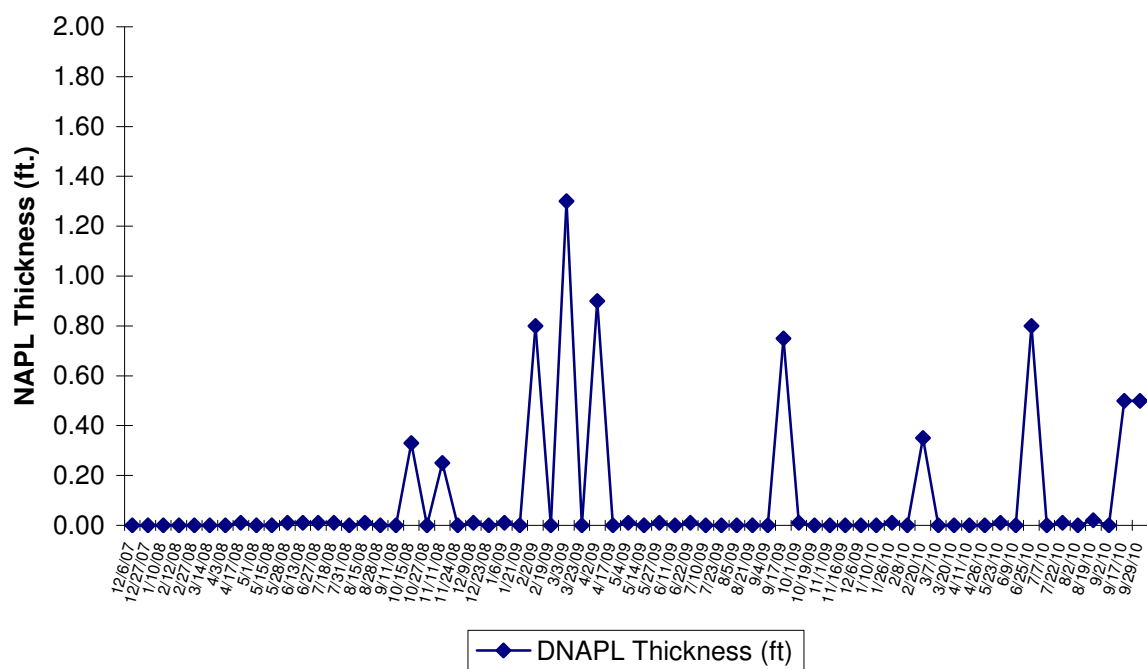
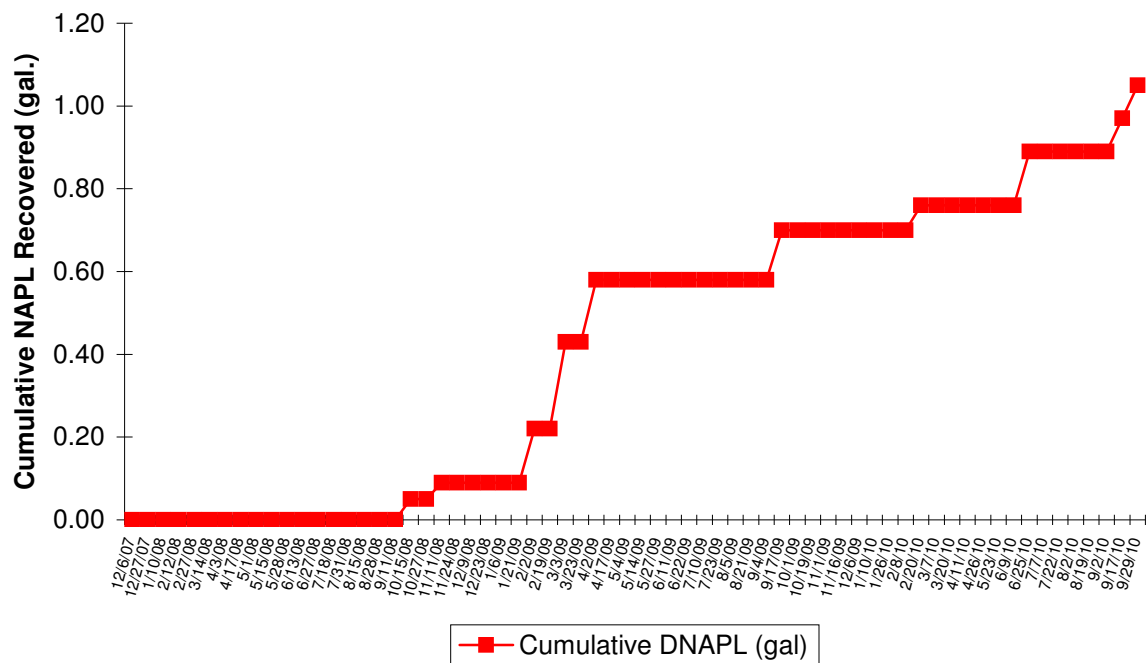


FIGURE 8E
Well HIMW-07S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

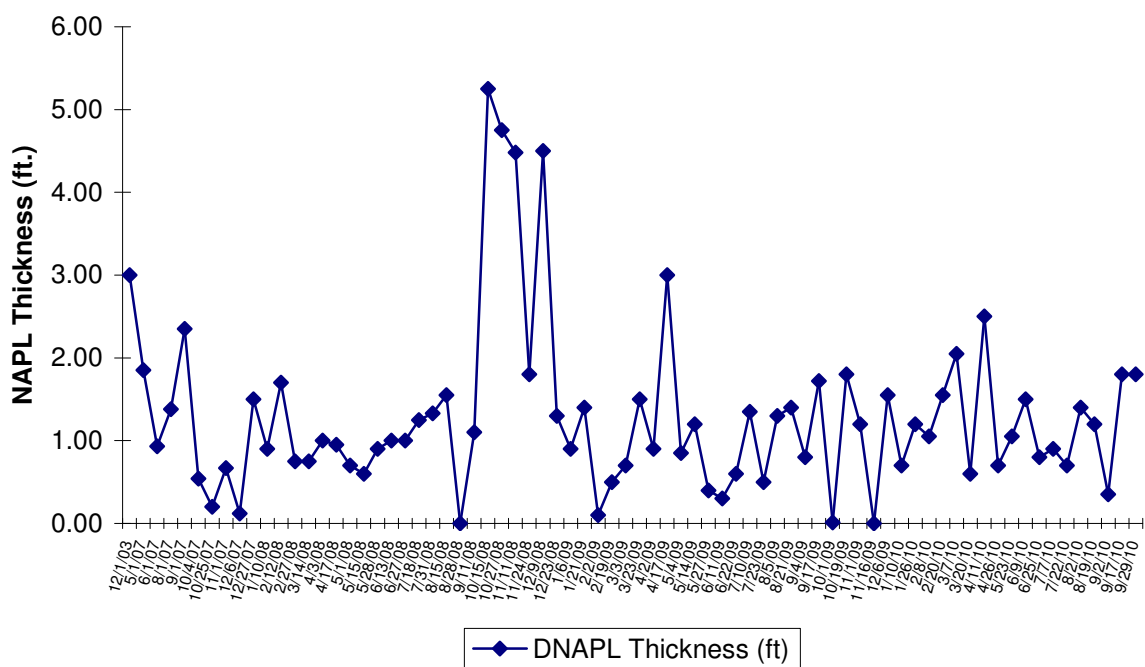
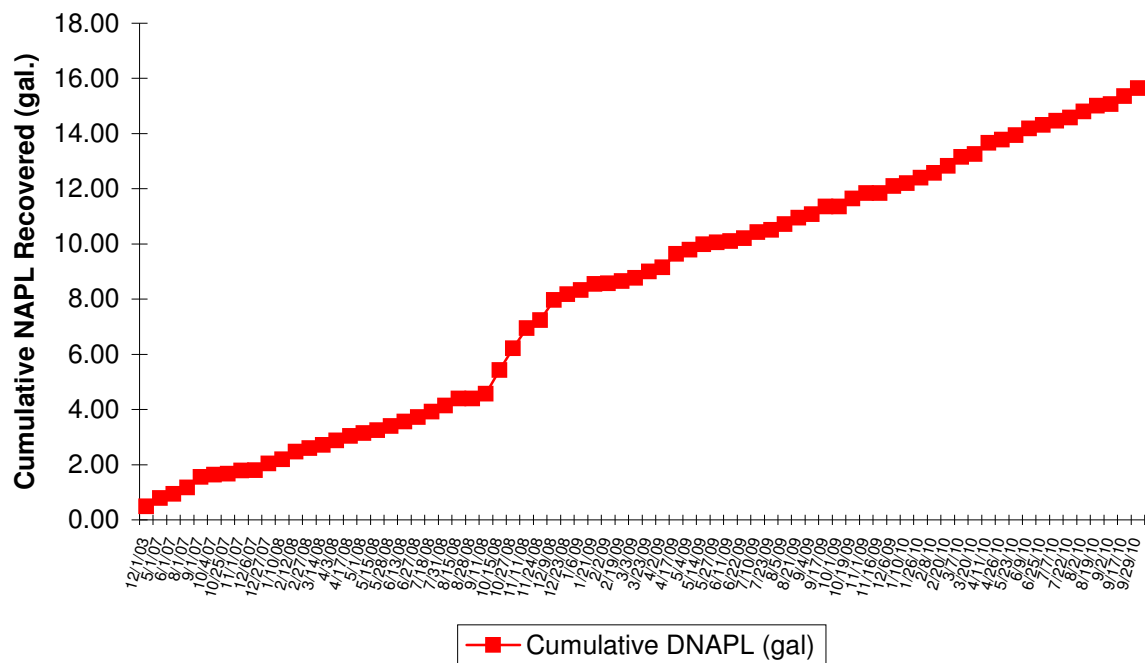


FIGURE 8F
Well HIMW-11S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

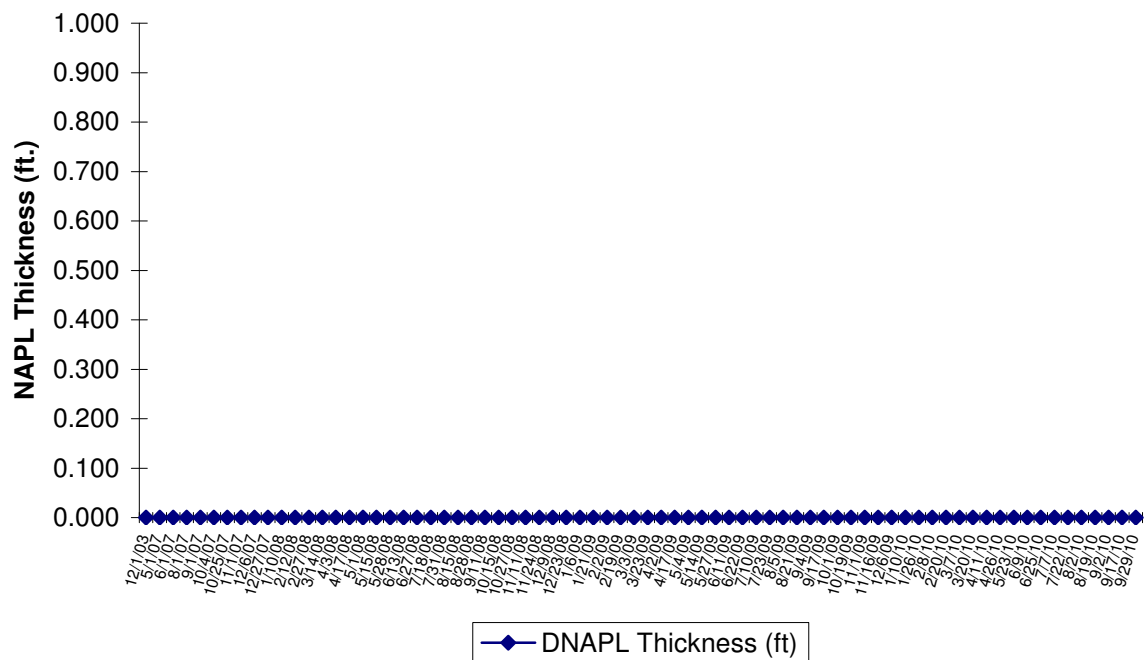
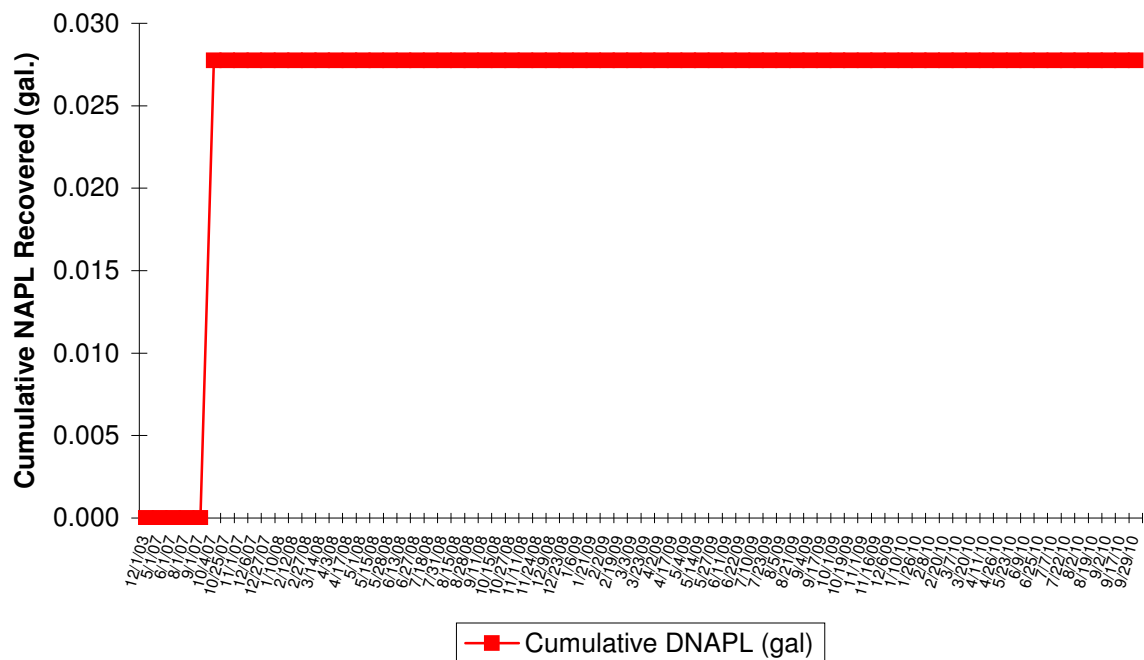


FIGURE 8G
Well HIMW-11I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

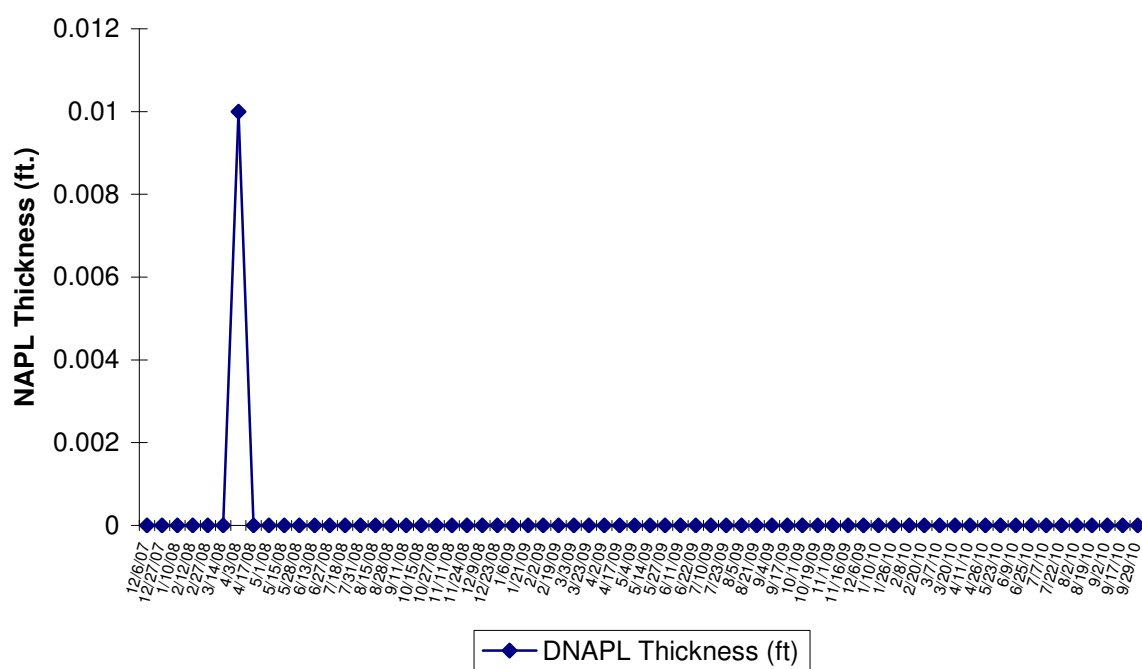
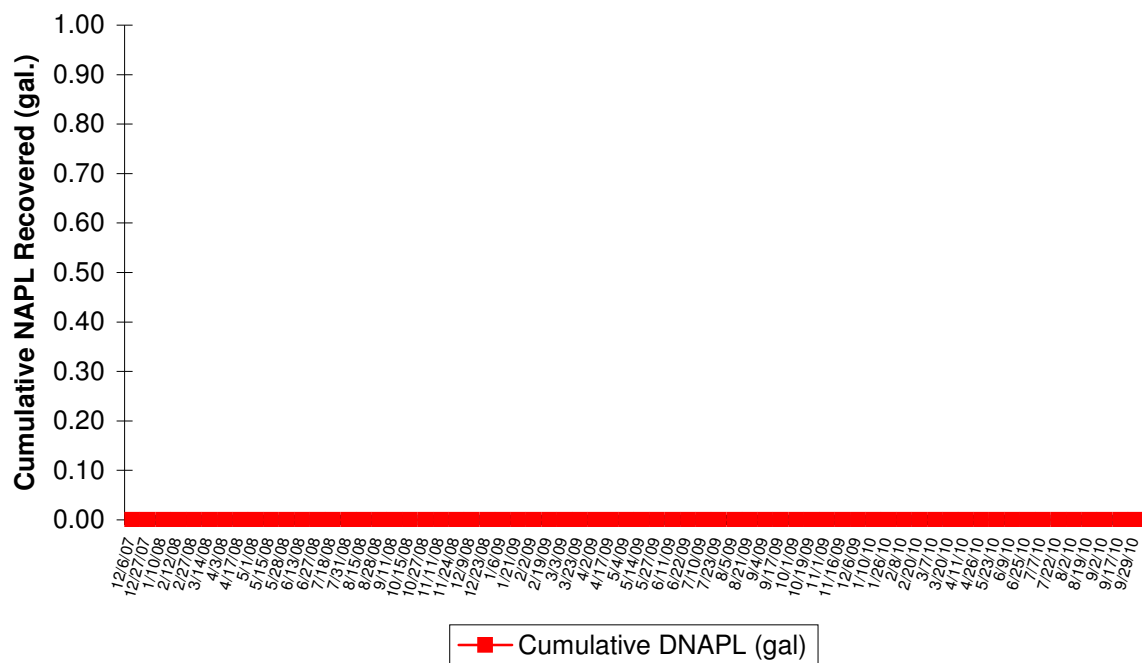


FIGURE 8H
Well HIMW-16S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

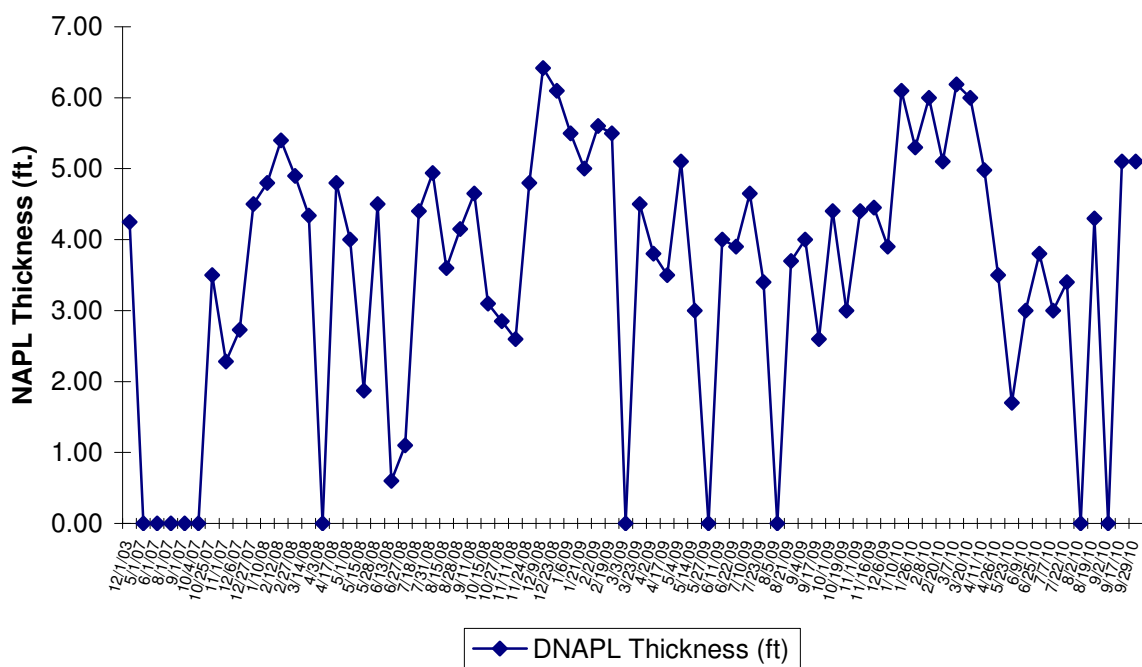
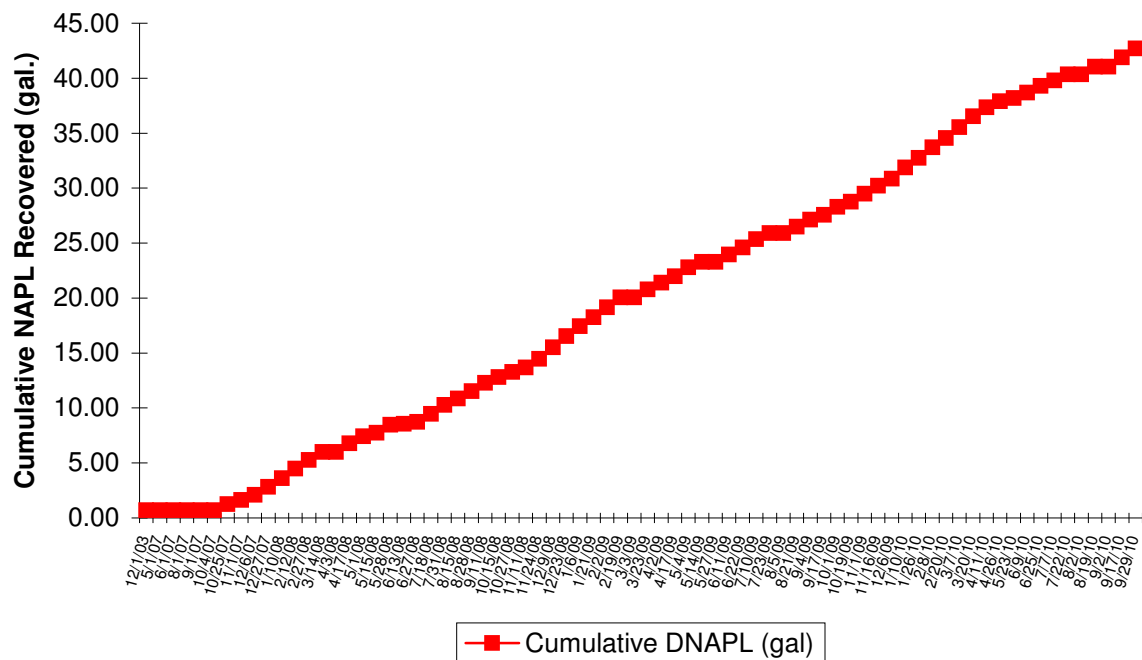


FIGURE 8I
Well HIMW-16I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

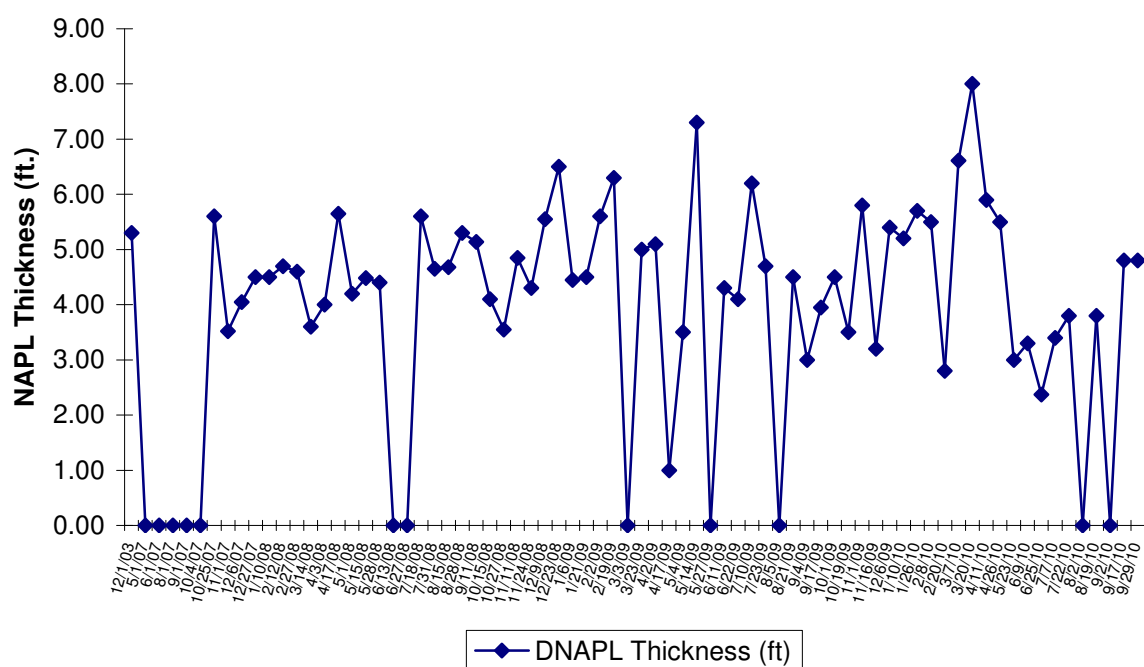
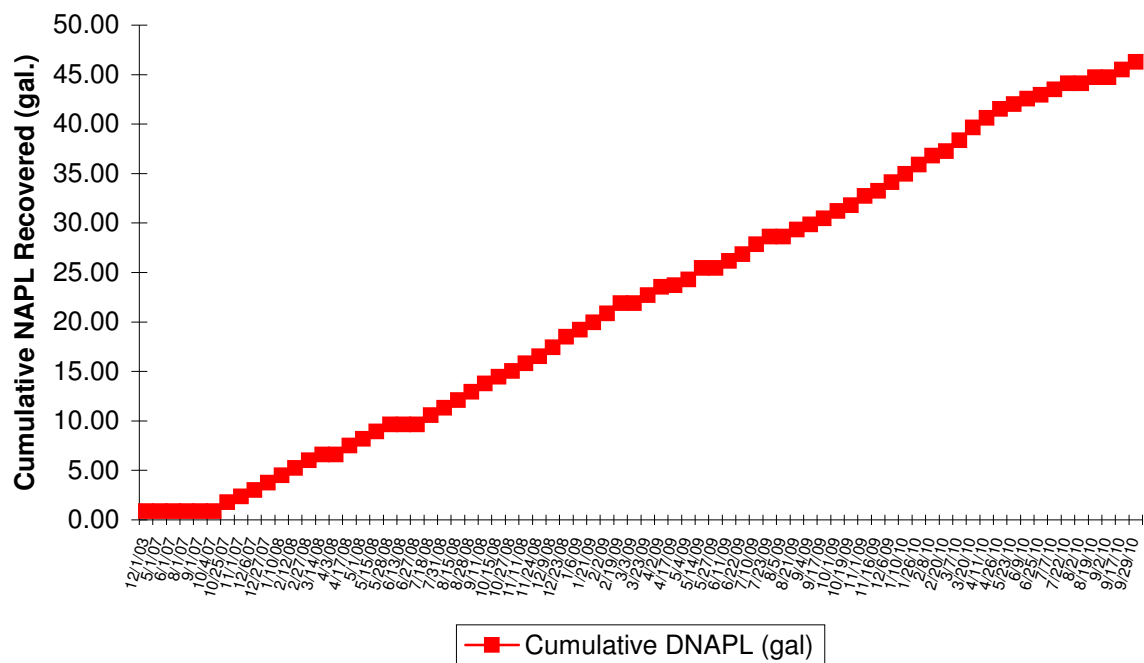


FIGURE 8J
Well HIMW-17S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

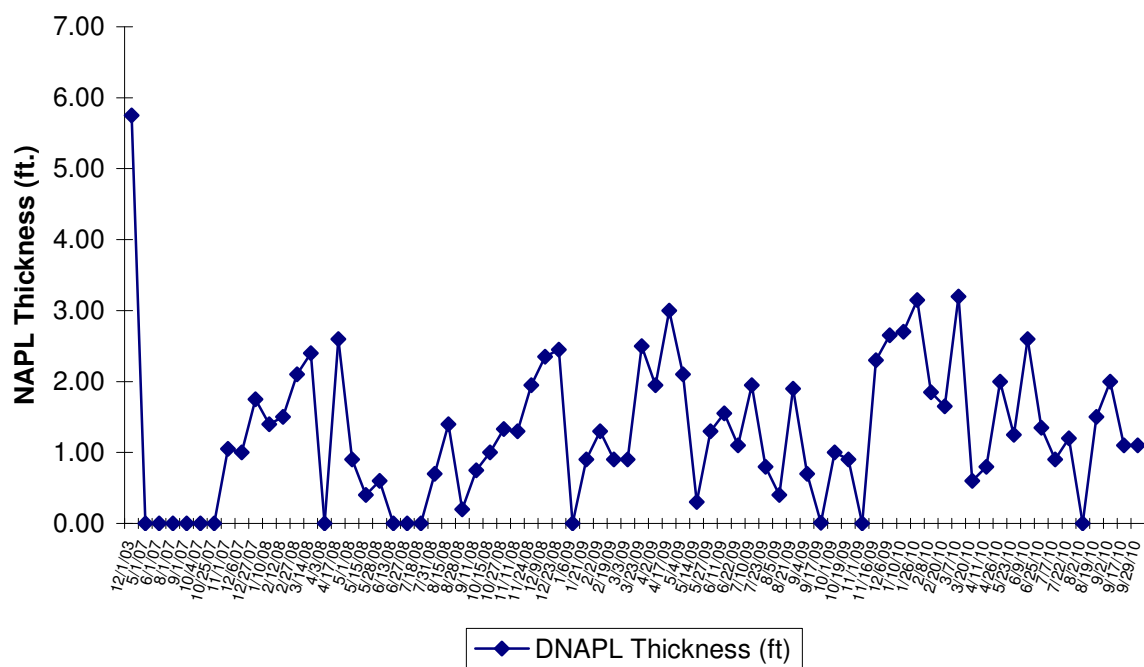
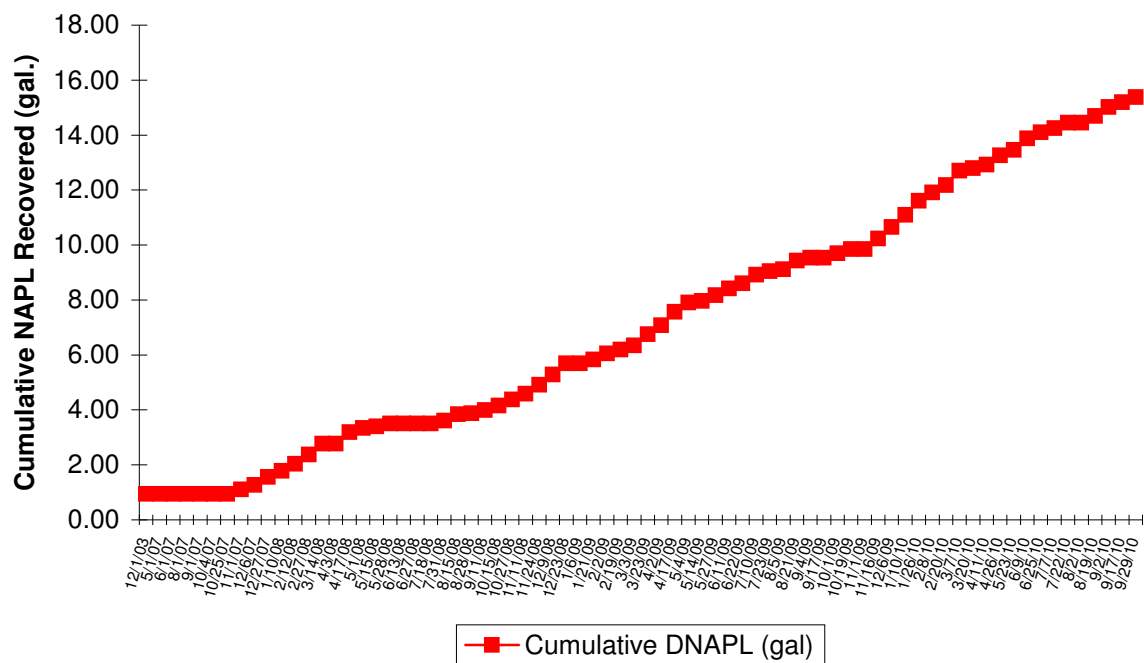


FIGURE 8K
Well HIMW-18S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

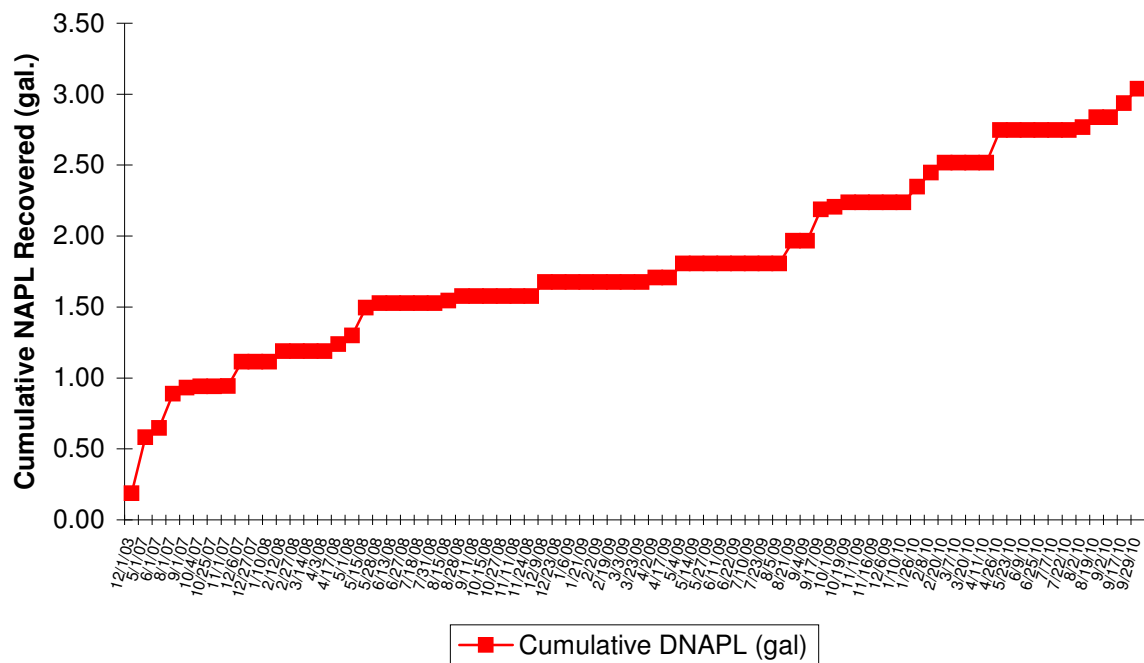


FIGURE 8L
Well HIMW-18I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

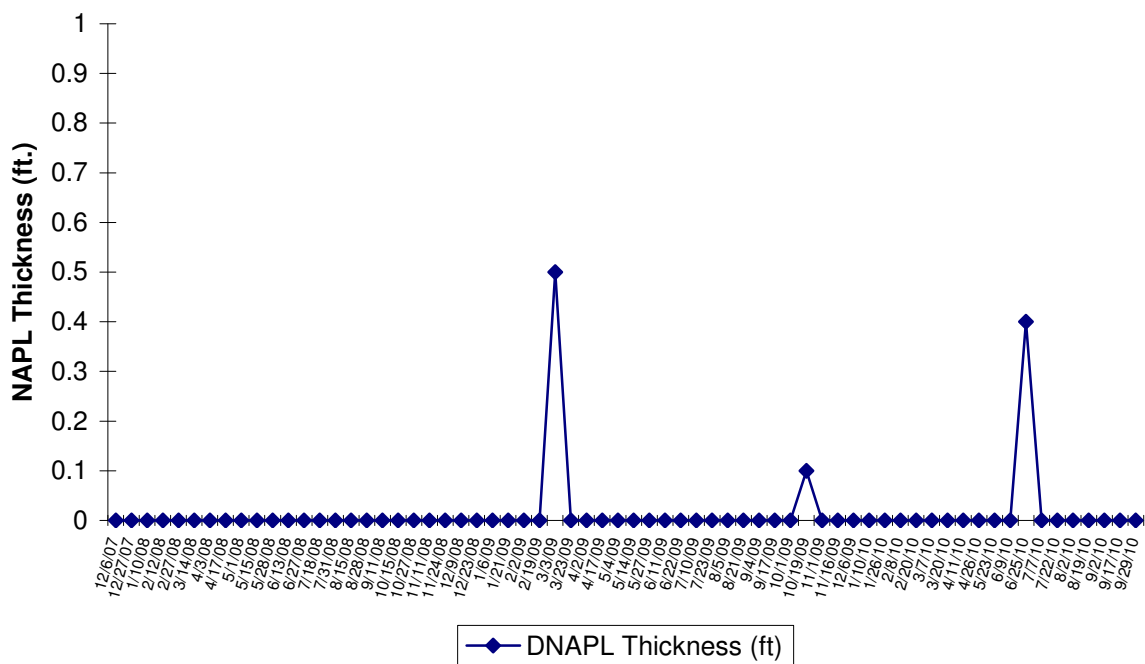
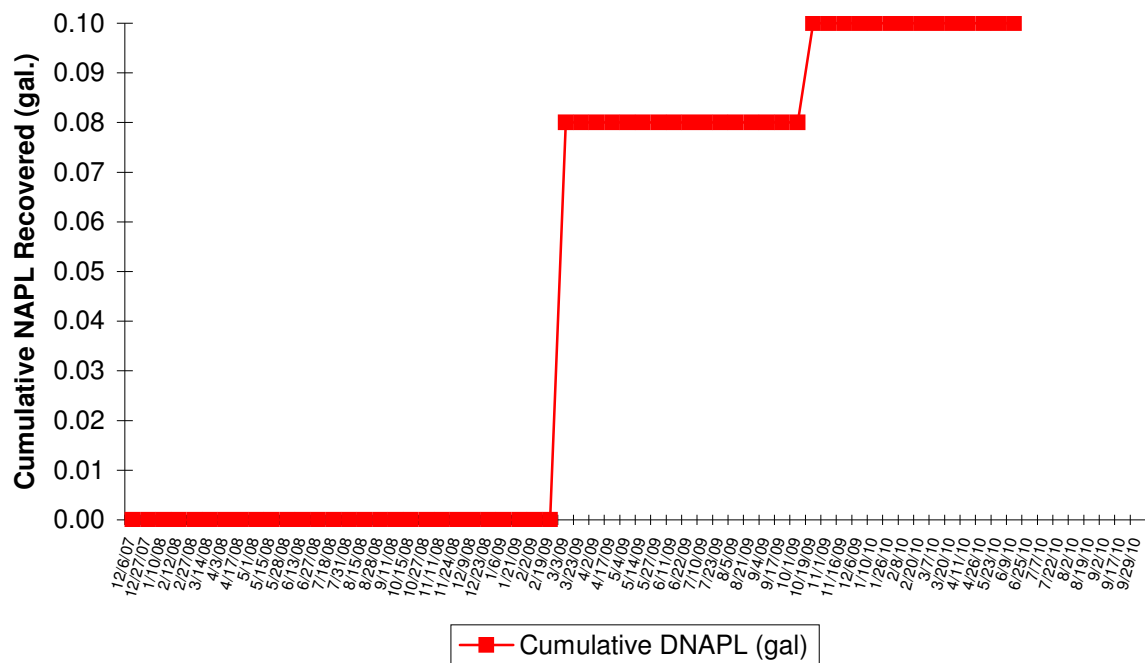


FIGURE 8M
Well HIMW-19S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

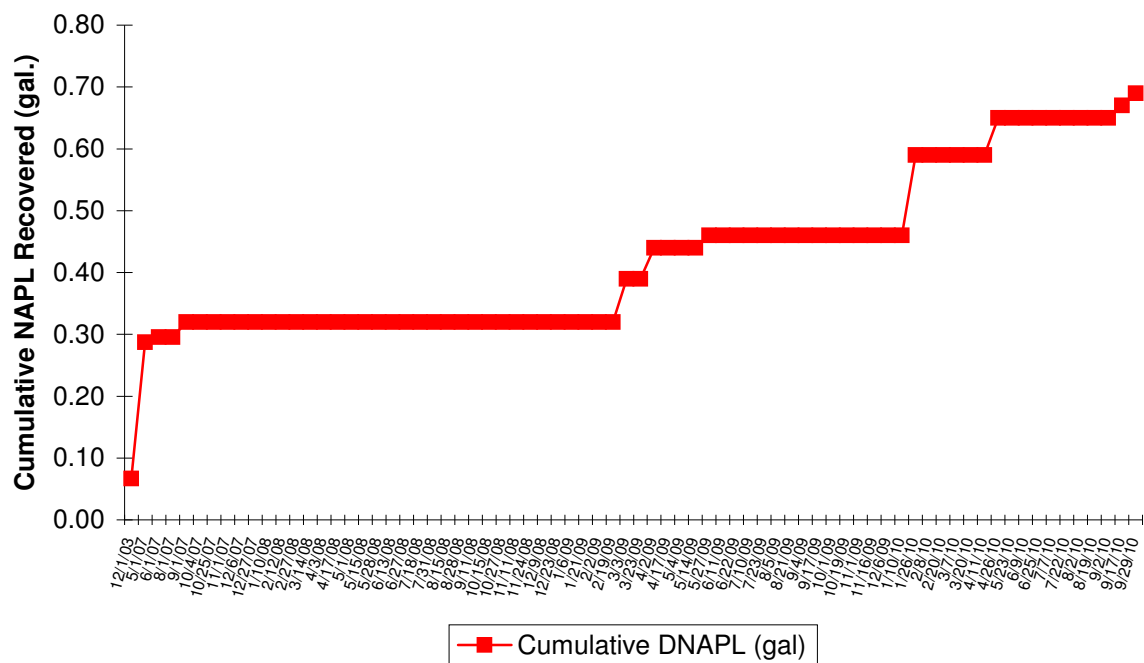


FIGURE 8N
Well HIMW-19I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

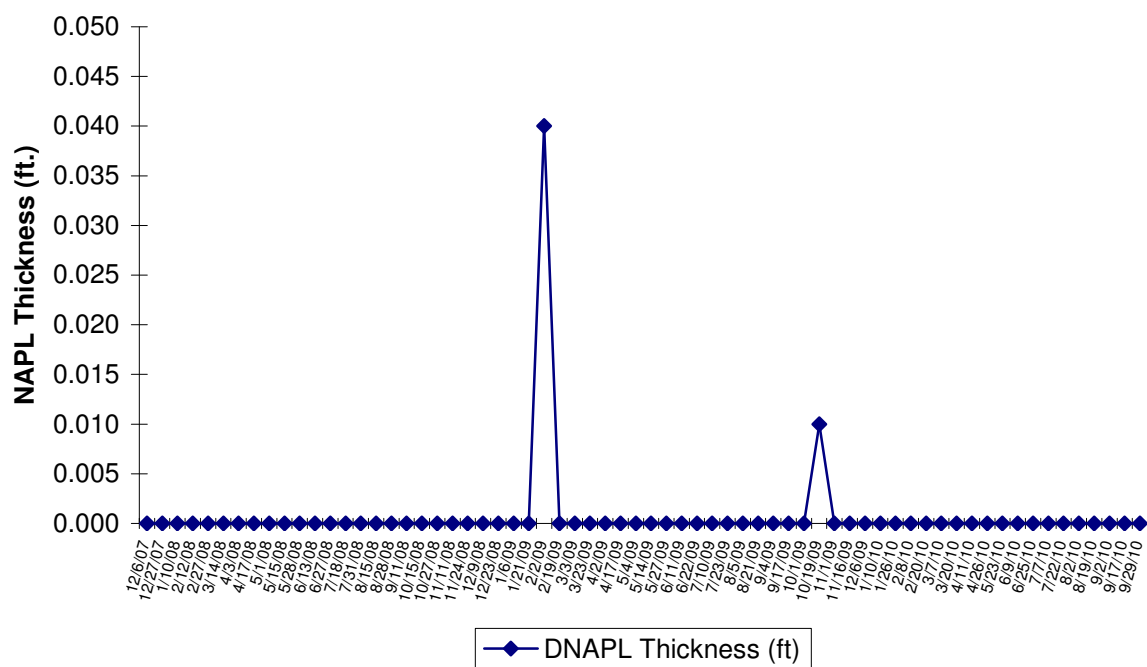
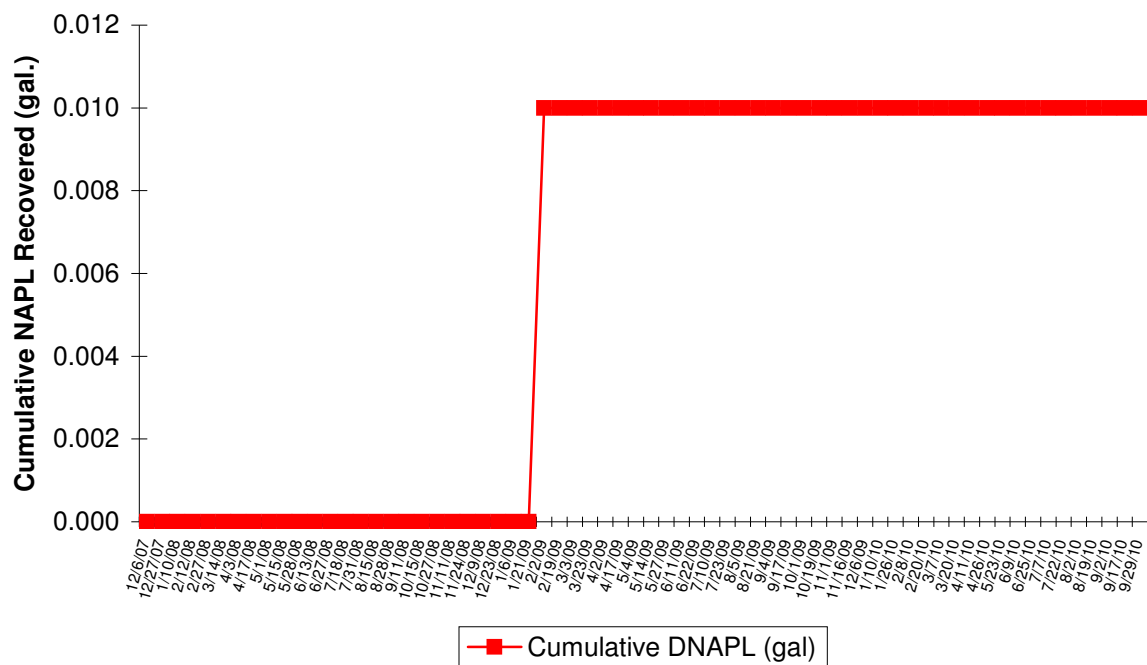


FIGURE 80
Well HIMW-21 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

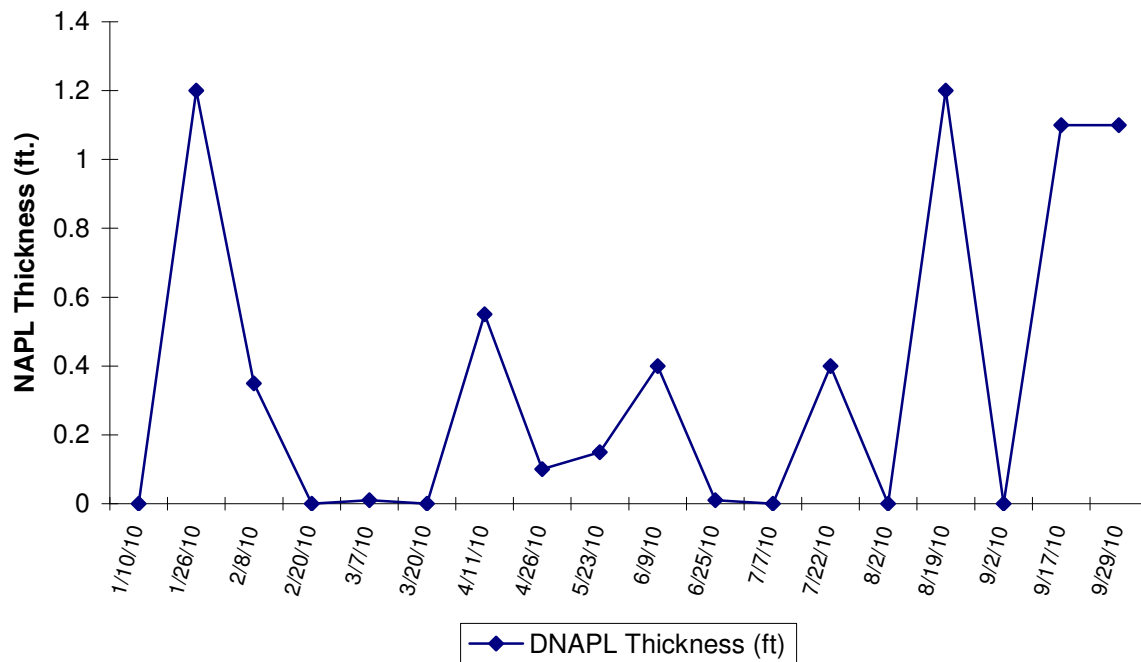
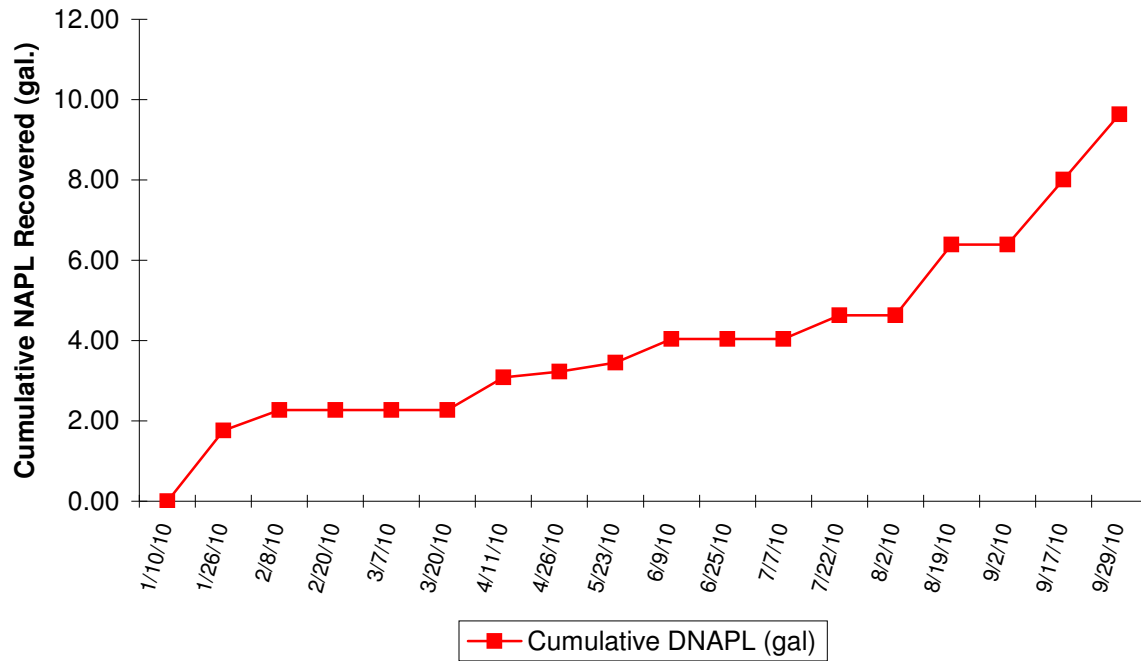


FIGURE 8P
Well PZ-08 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

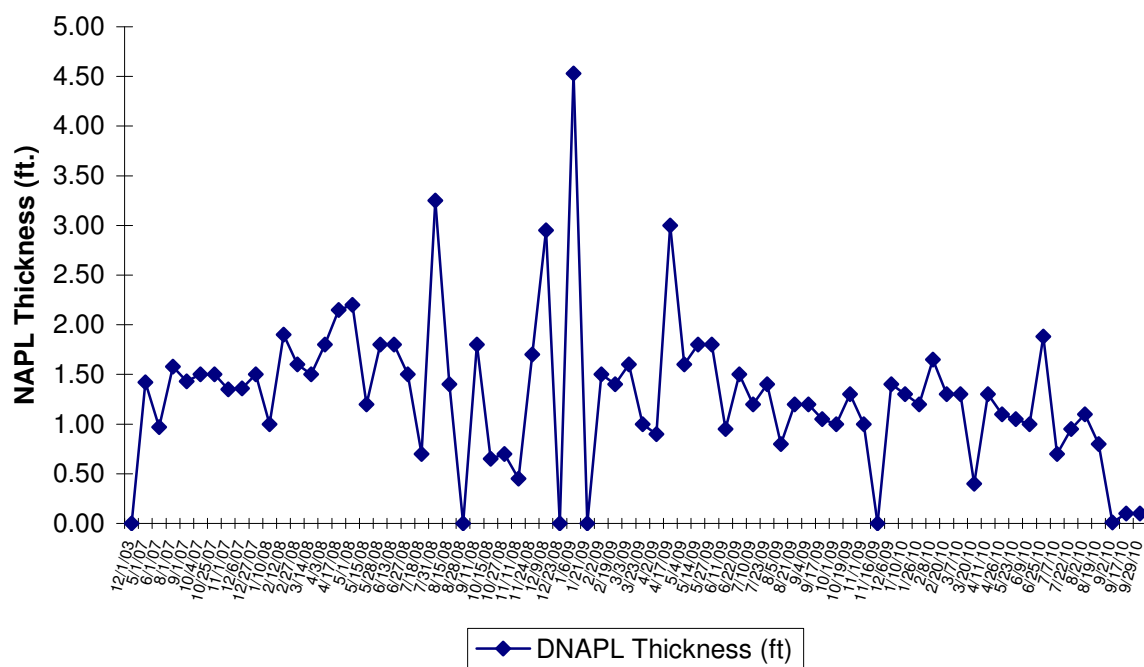
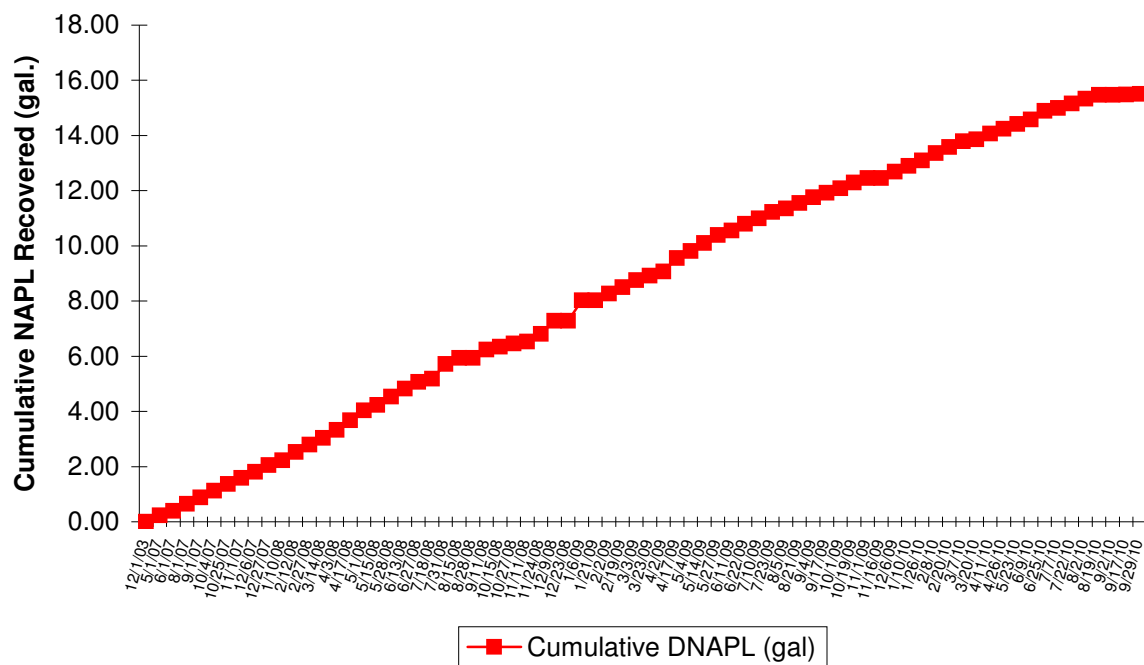


FIGURE 8Q
Well IPR-02 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

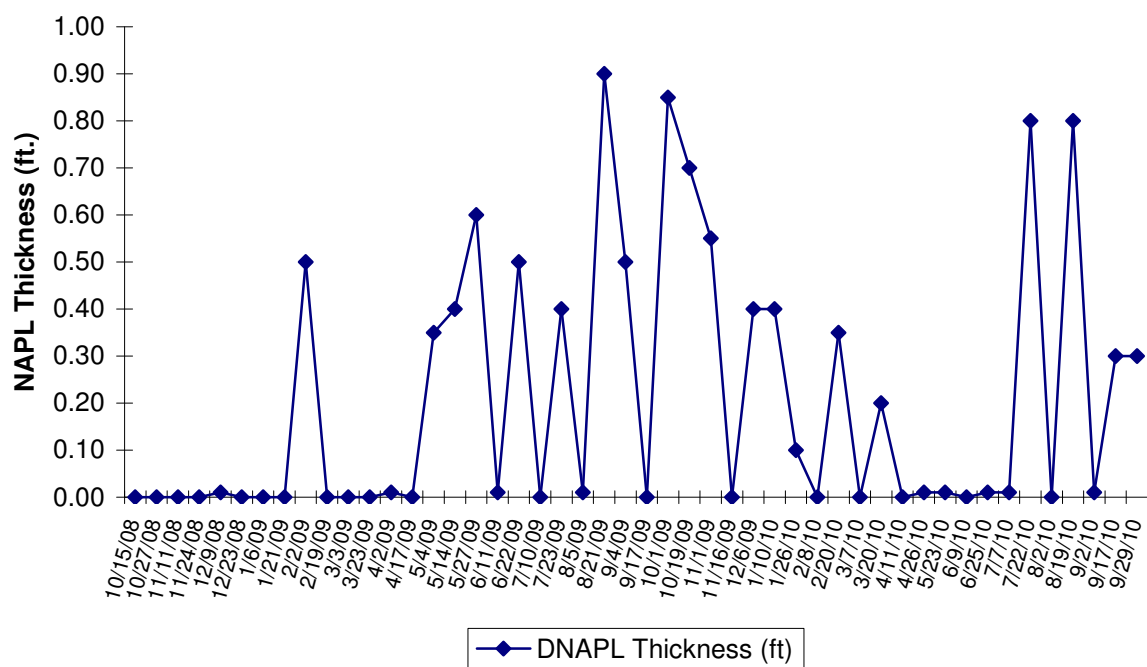
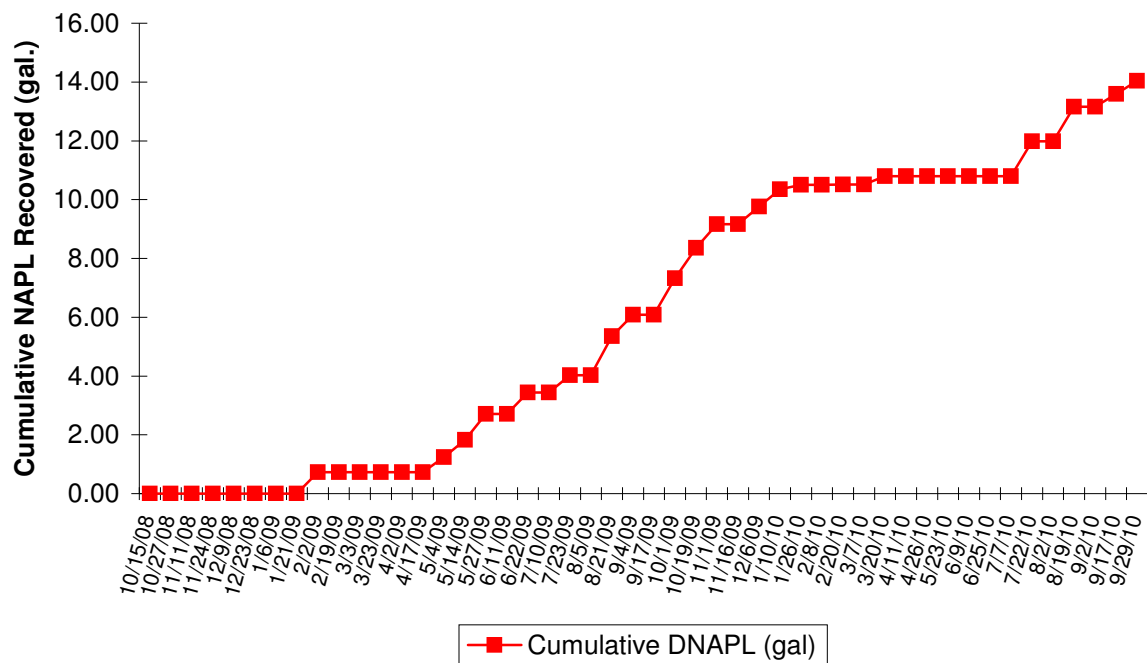


FIGURE 8R
Well IPR-05 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

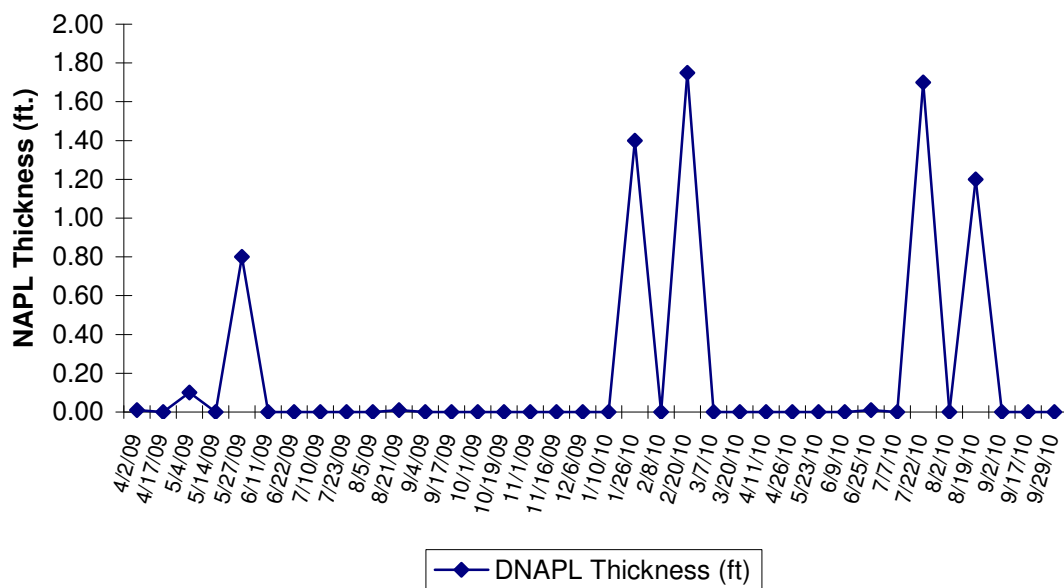
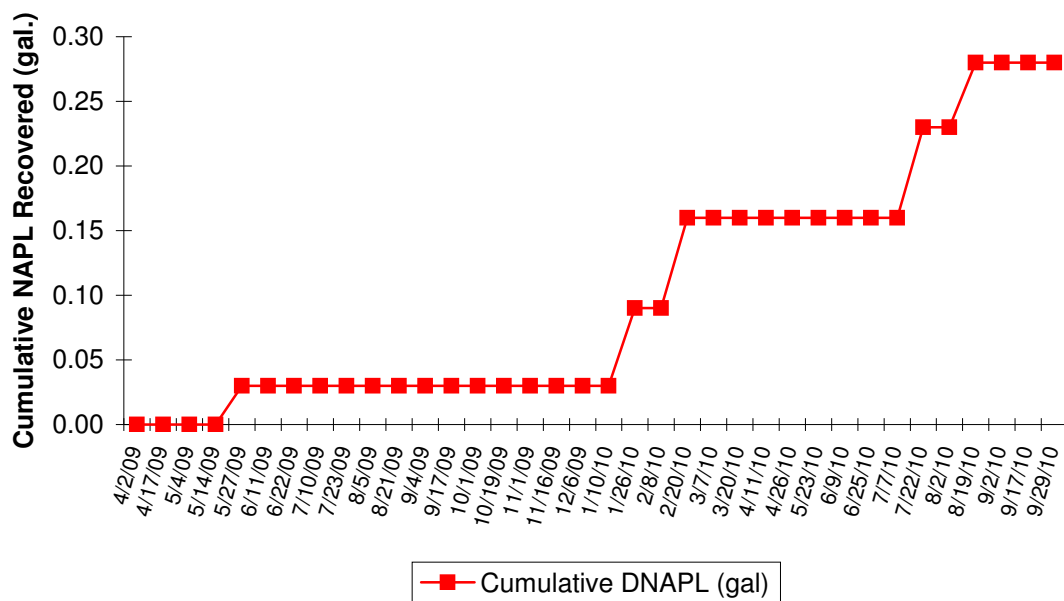


FIGURE 8S
Well IPR-06 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

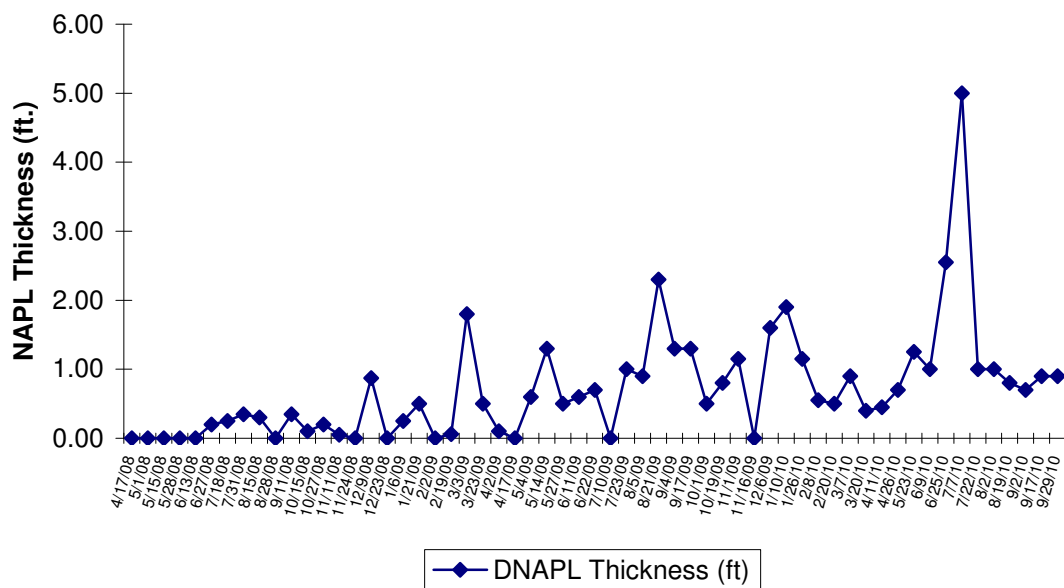
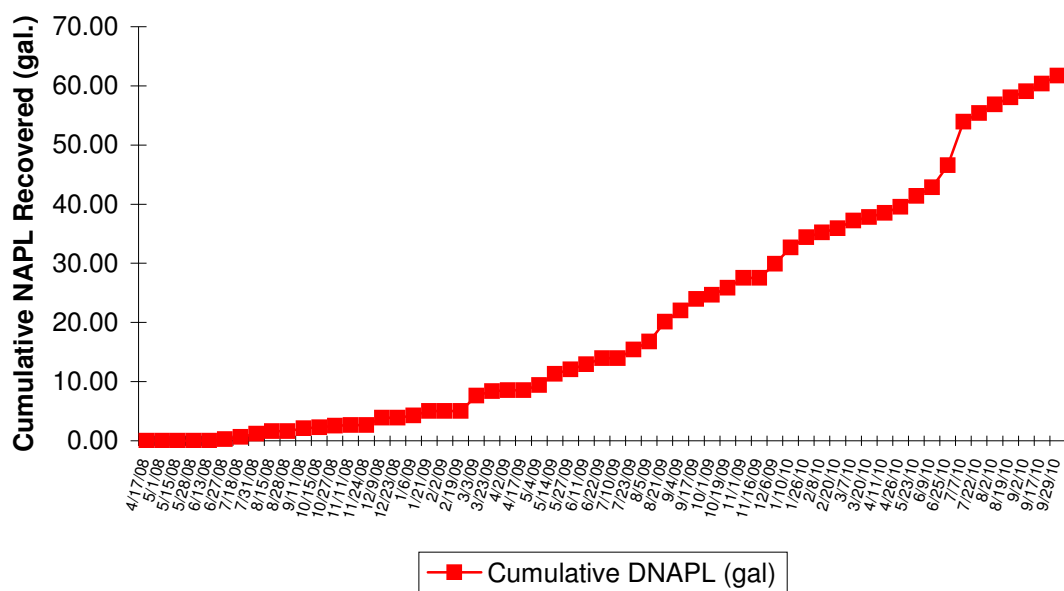


FIGURE 8T
Well IPR-09 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

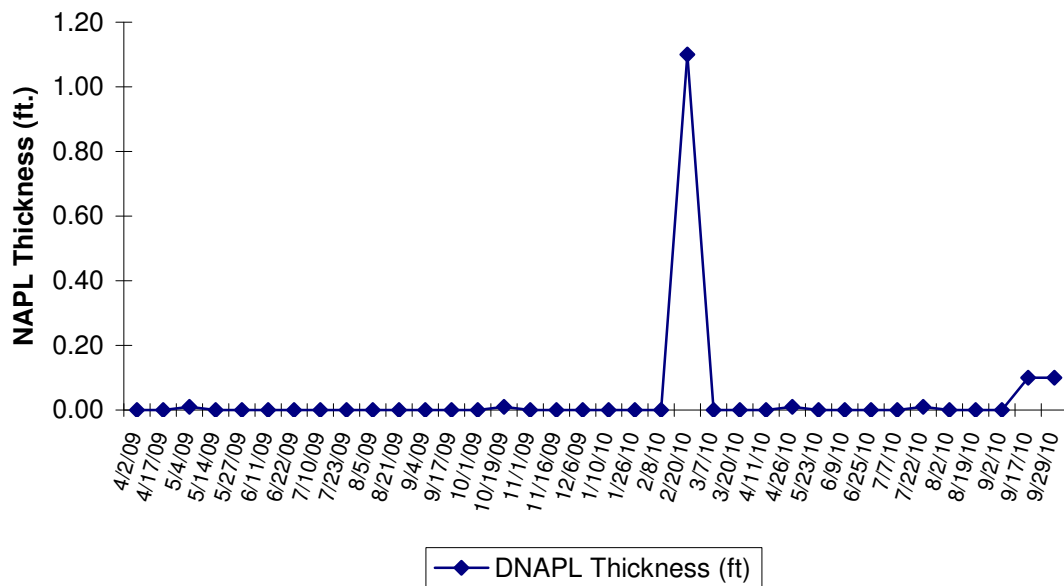
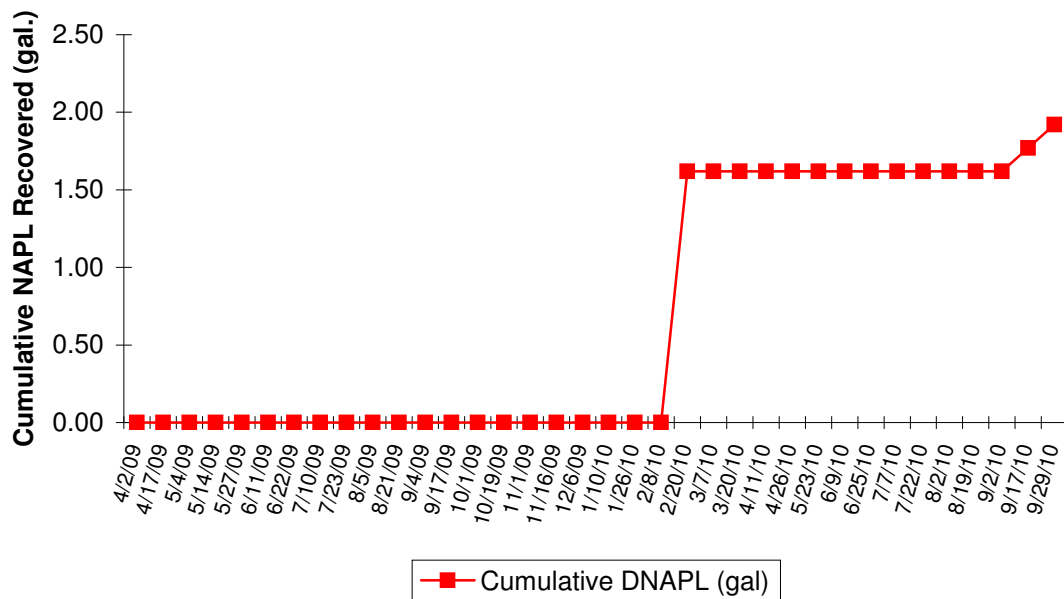


FIGURE 8U
Well IPR-12A NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

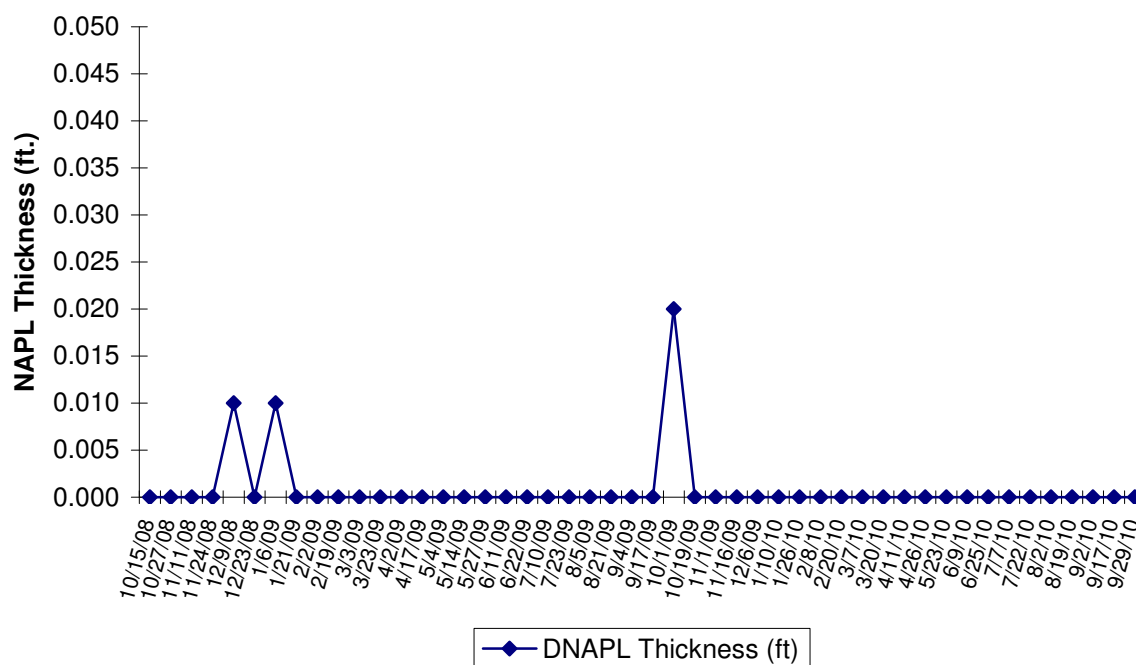
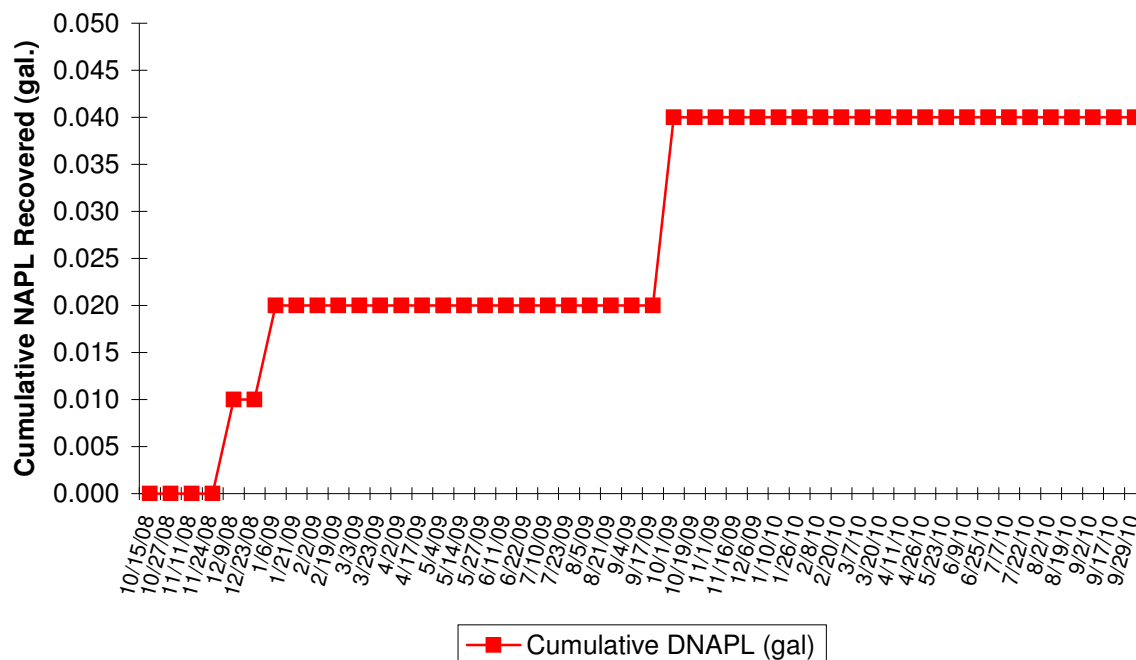


FIGURE 8V
Well IPR-15 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

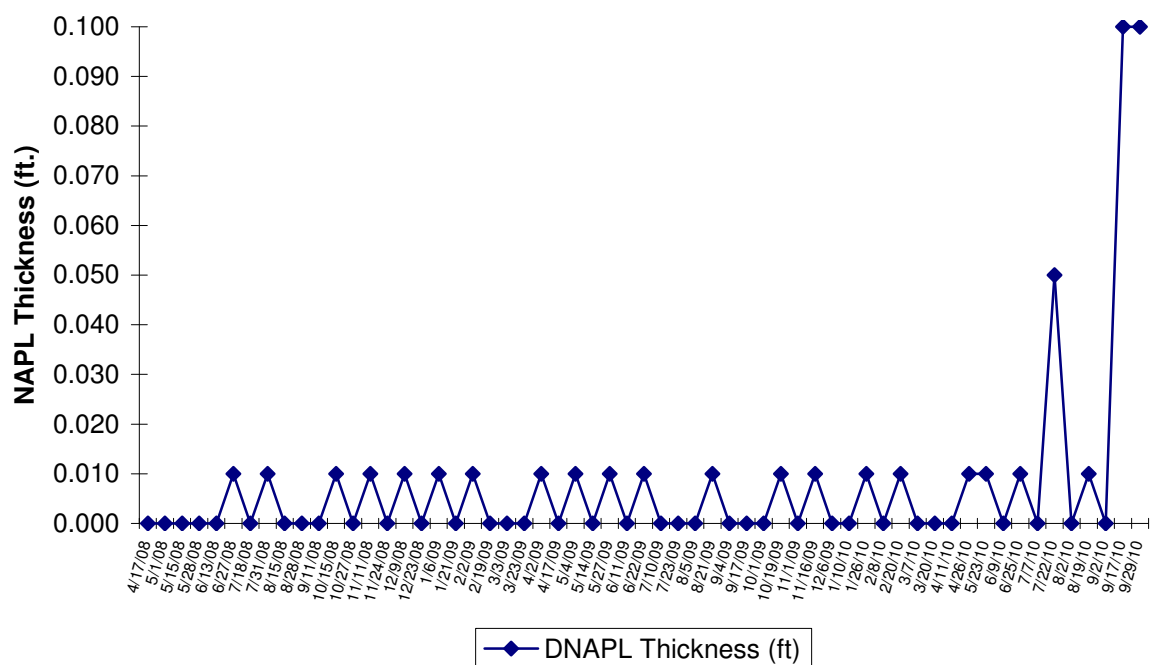
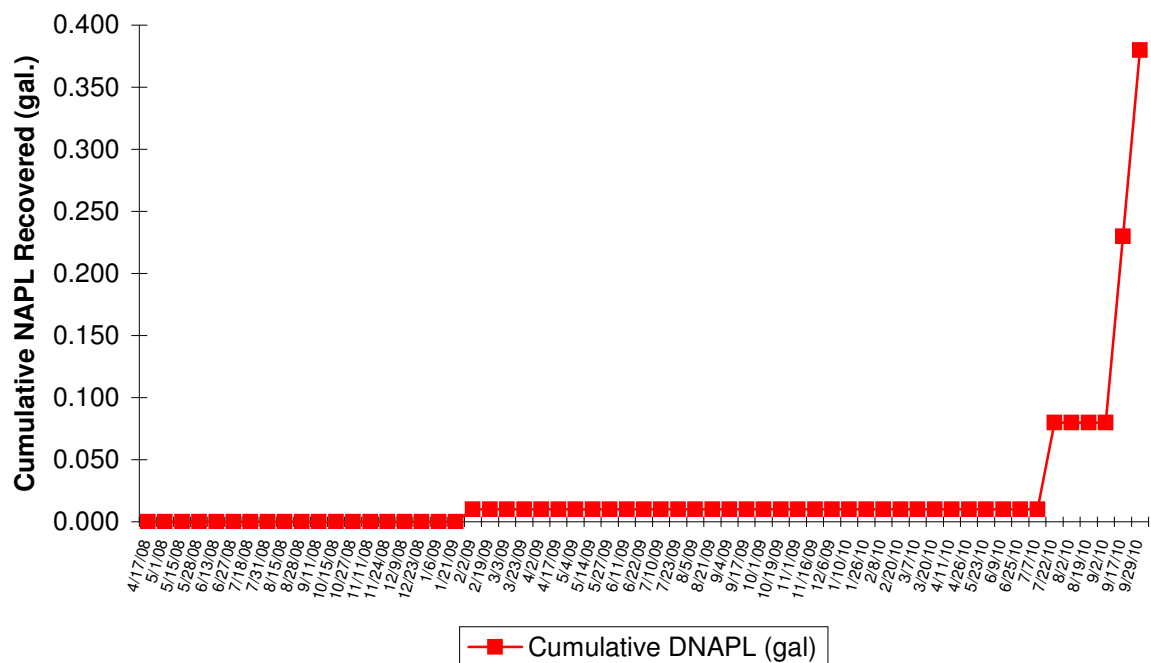


FIGURE 8W
Well IPR-16 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

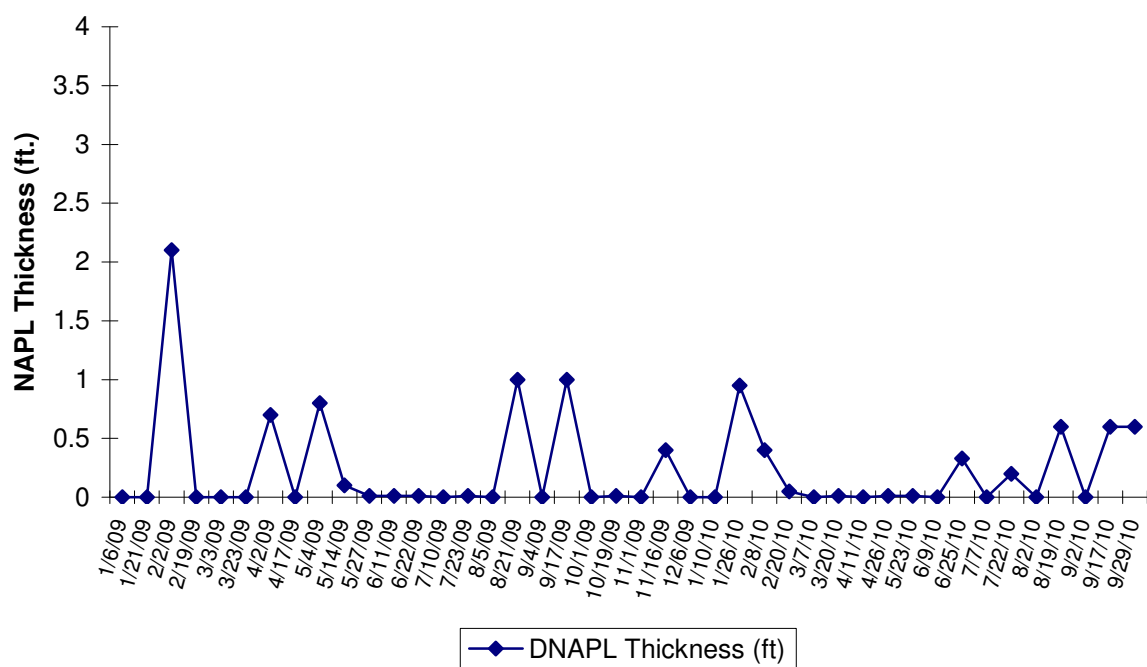
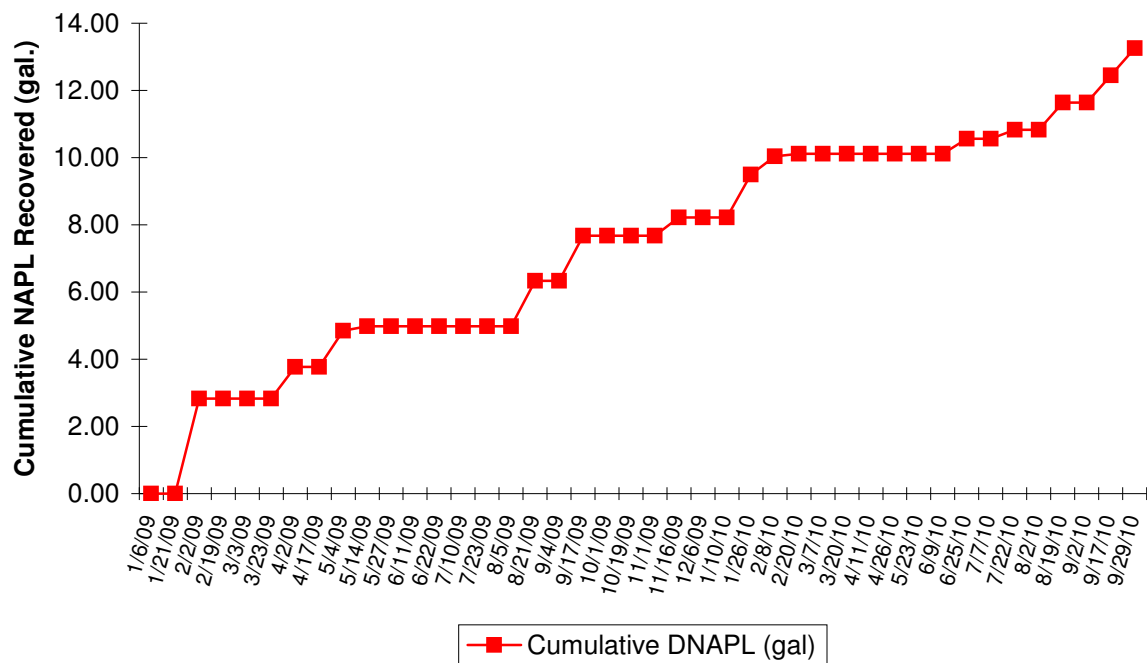


FIGURE 8X
Well IPR-17 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

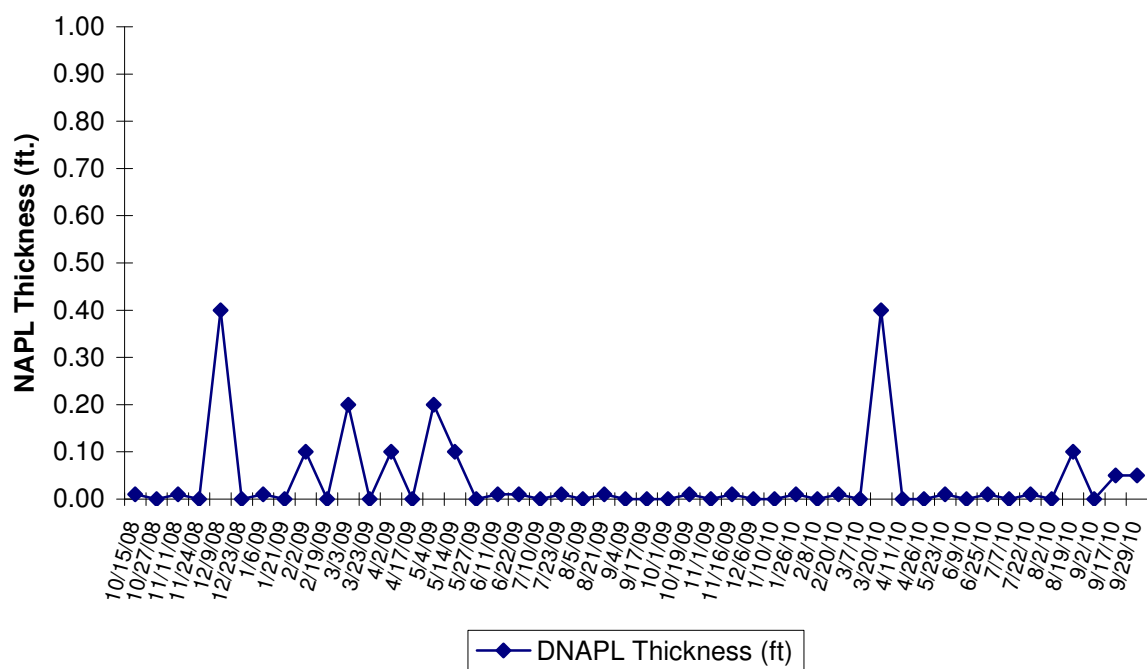
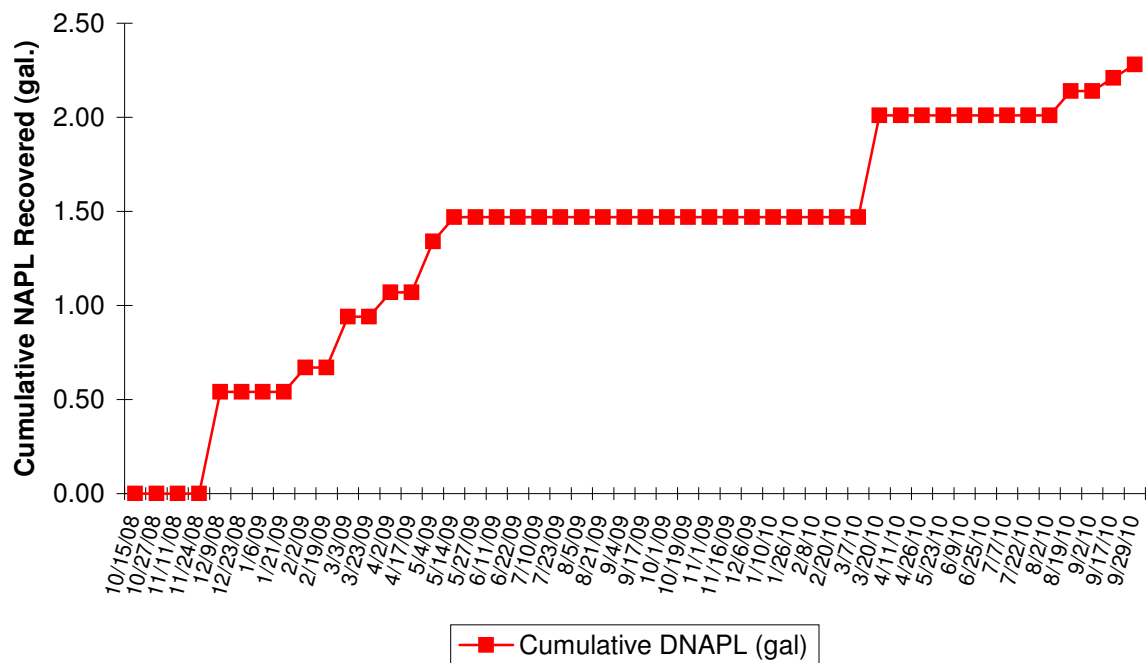


FIGURE 8Y
Well IPR-18 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

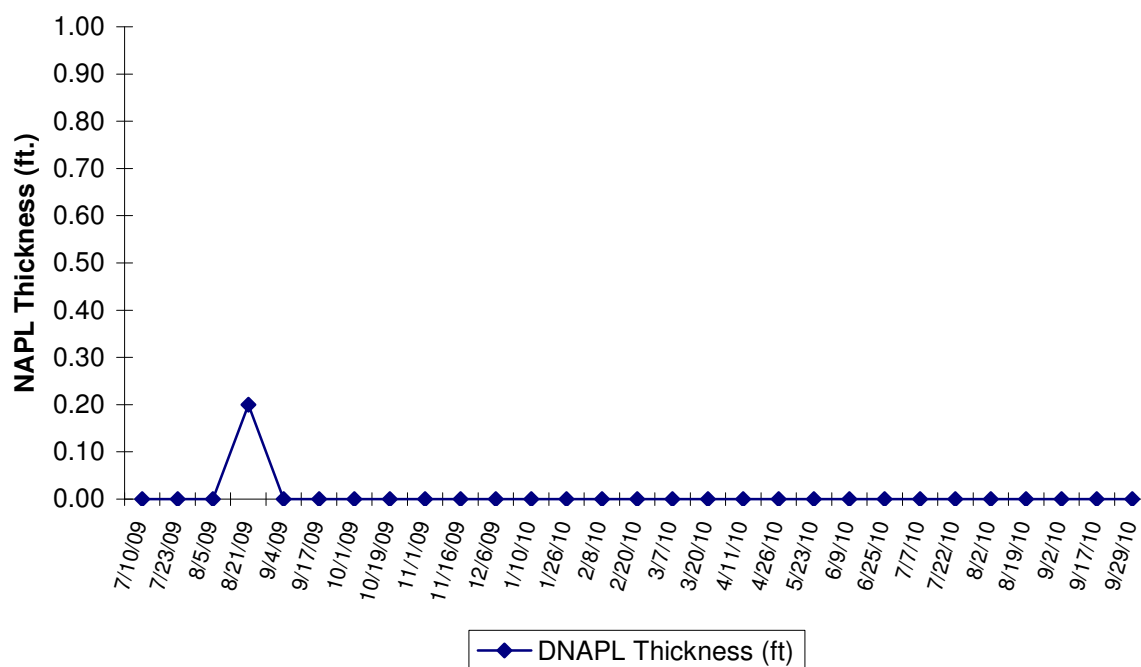
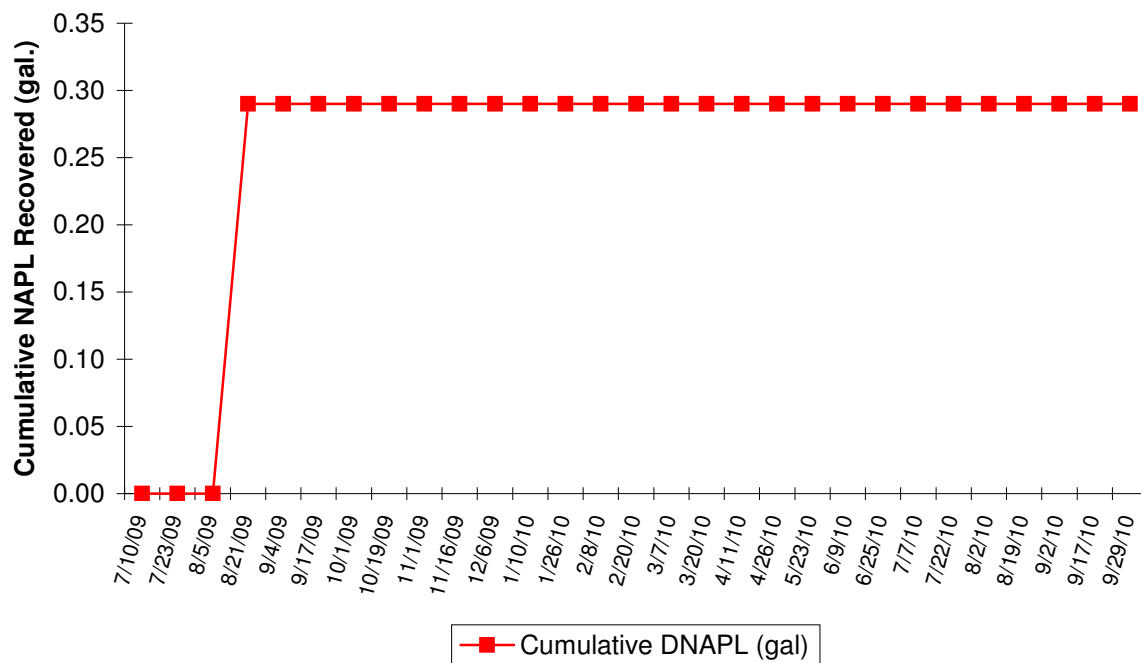


FIGURE 8Z
Well IPR-20 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

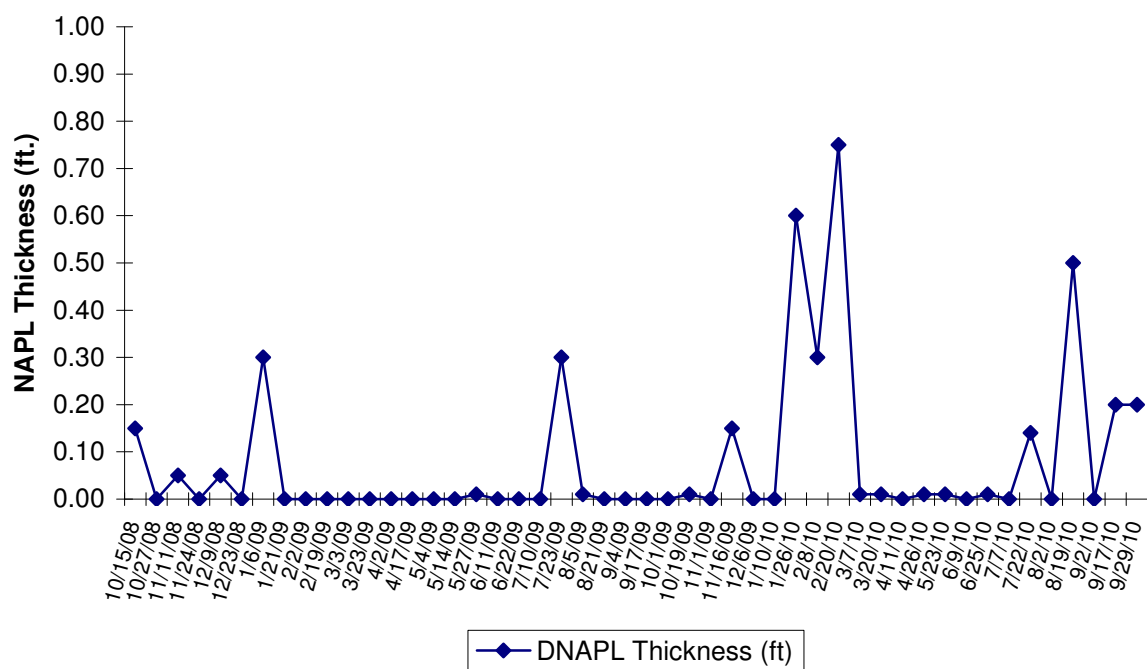
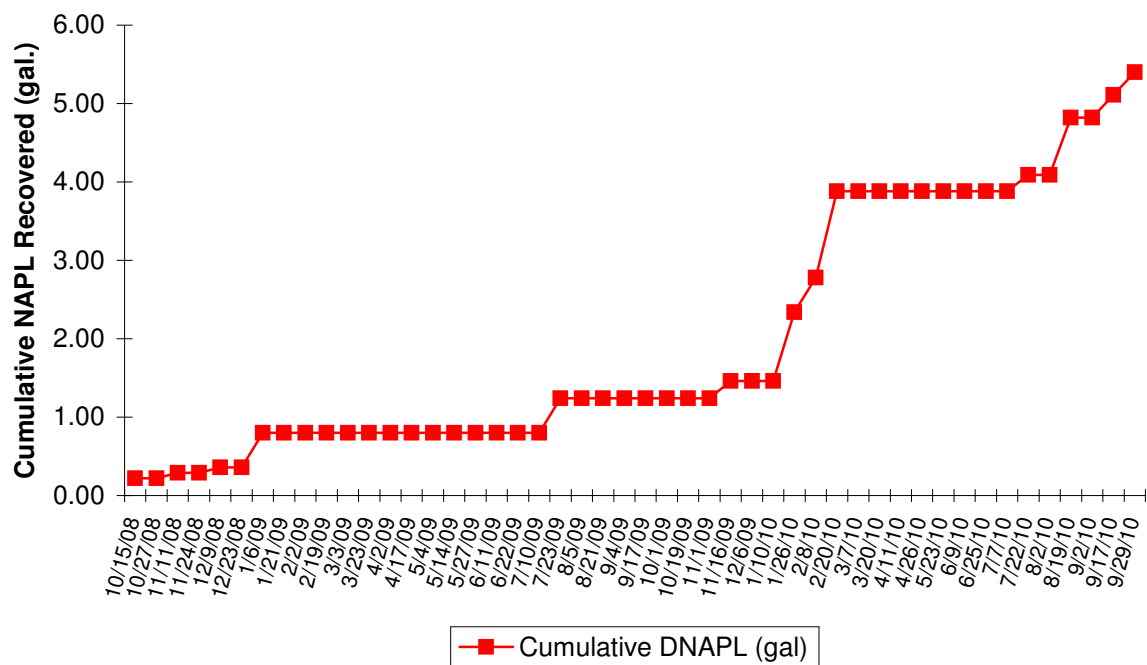


FIGURE 8AA
Well IPR-21 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

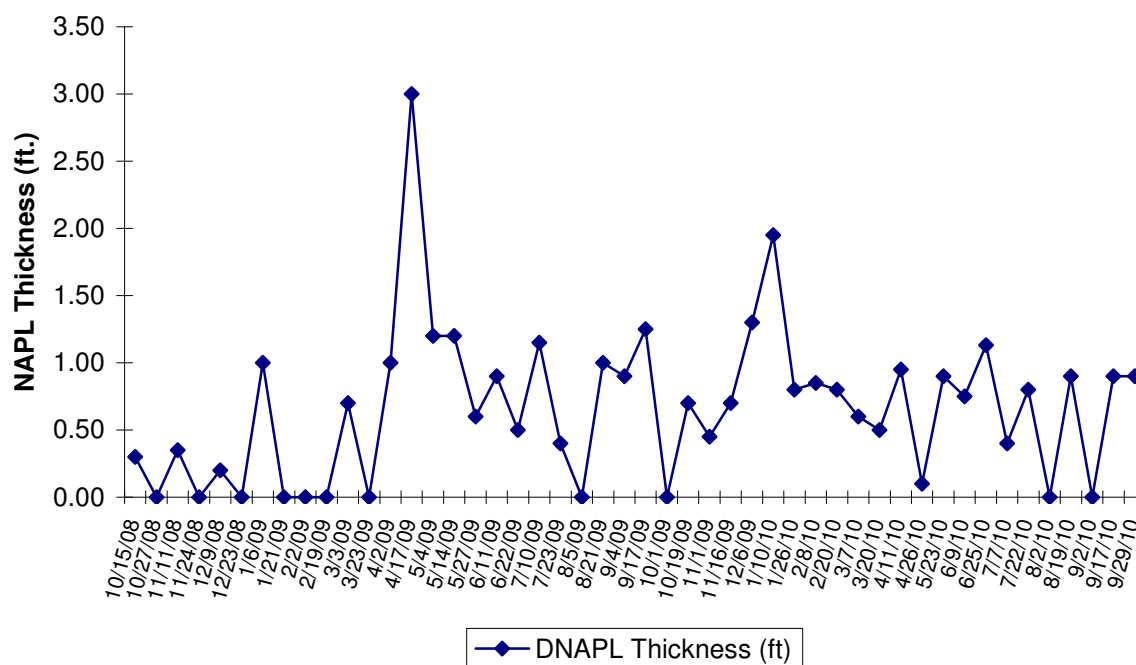
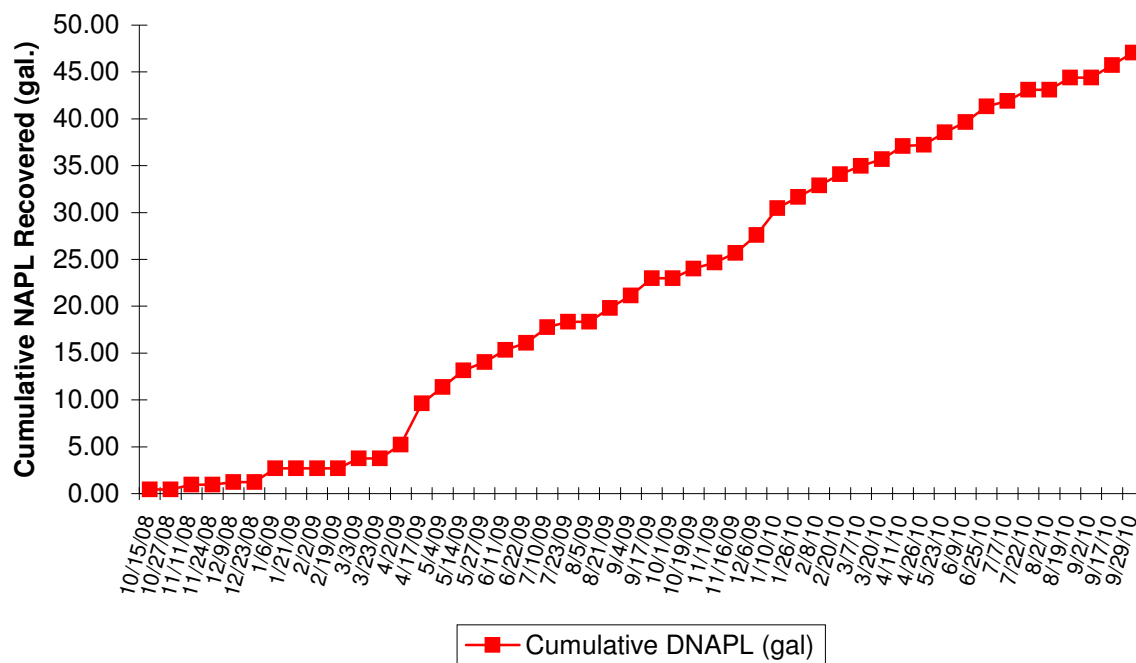


FIGURE 8AB
Well IPR-22 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

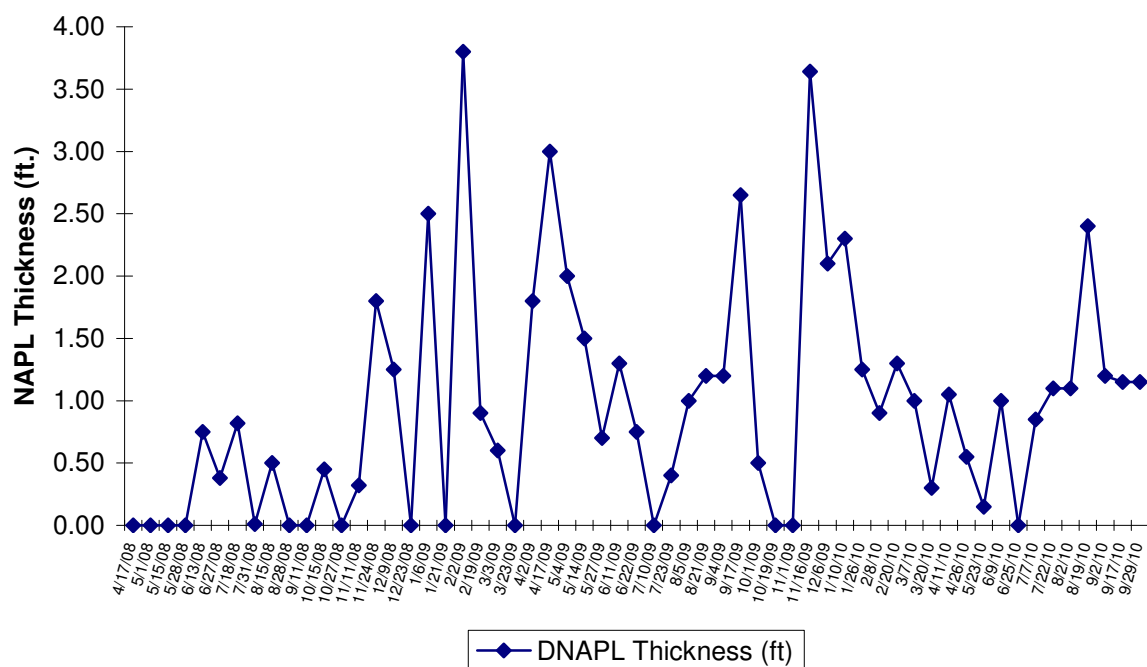
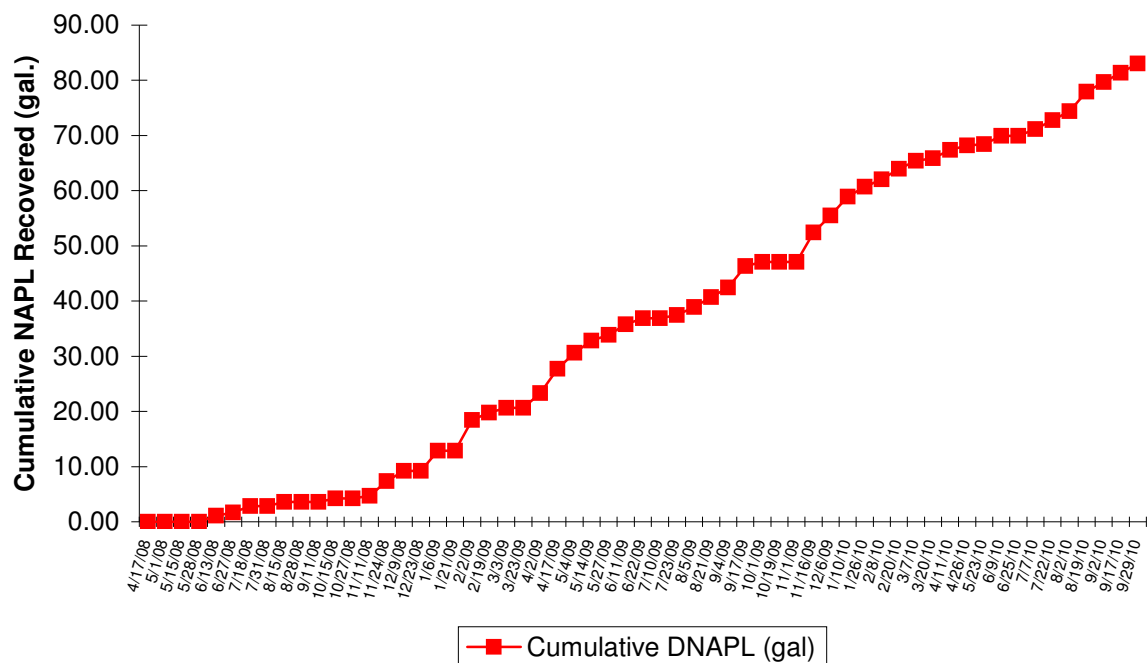


FIGURE 8AC
Well IPR-24 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

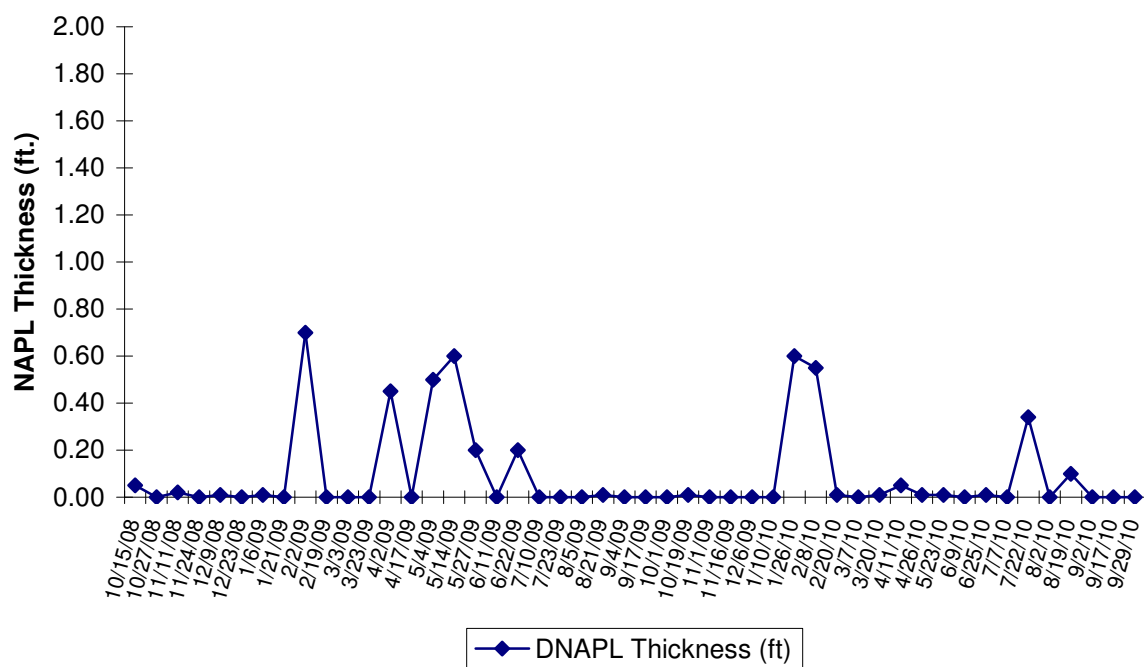
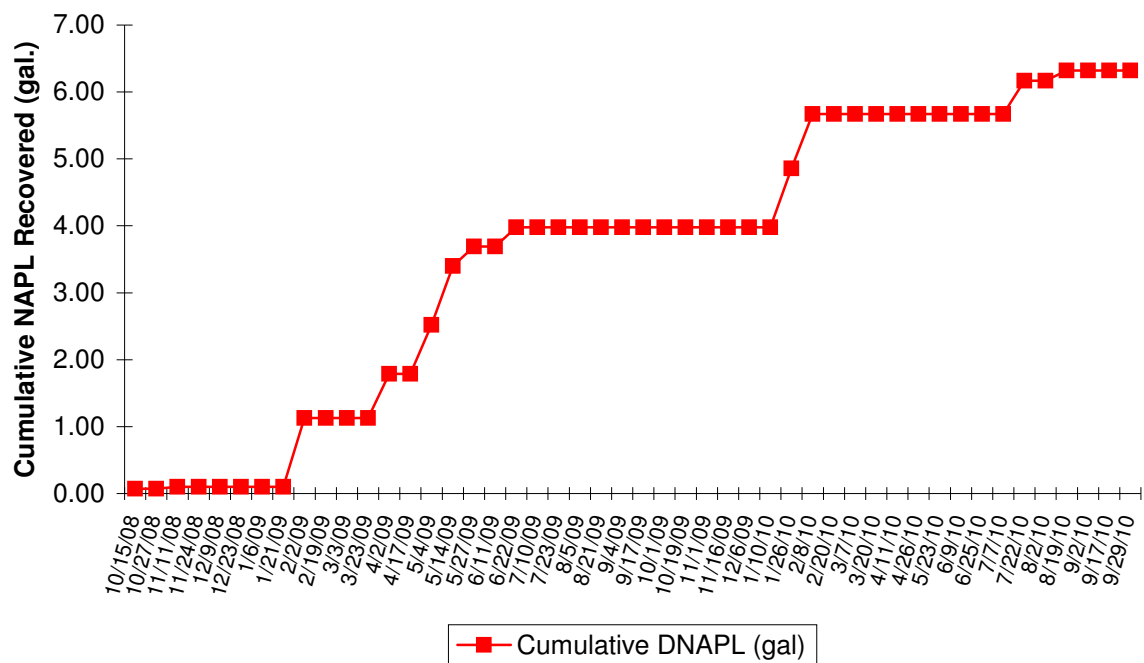


FIGURE 8AD
Well IPR-25 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

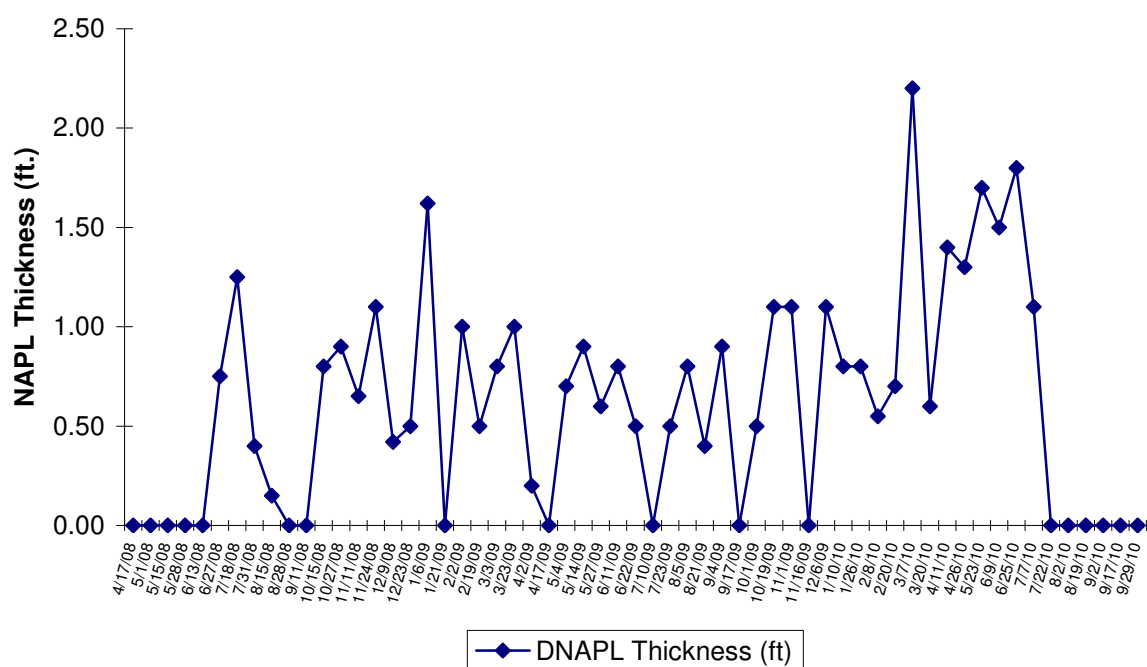
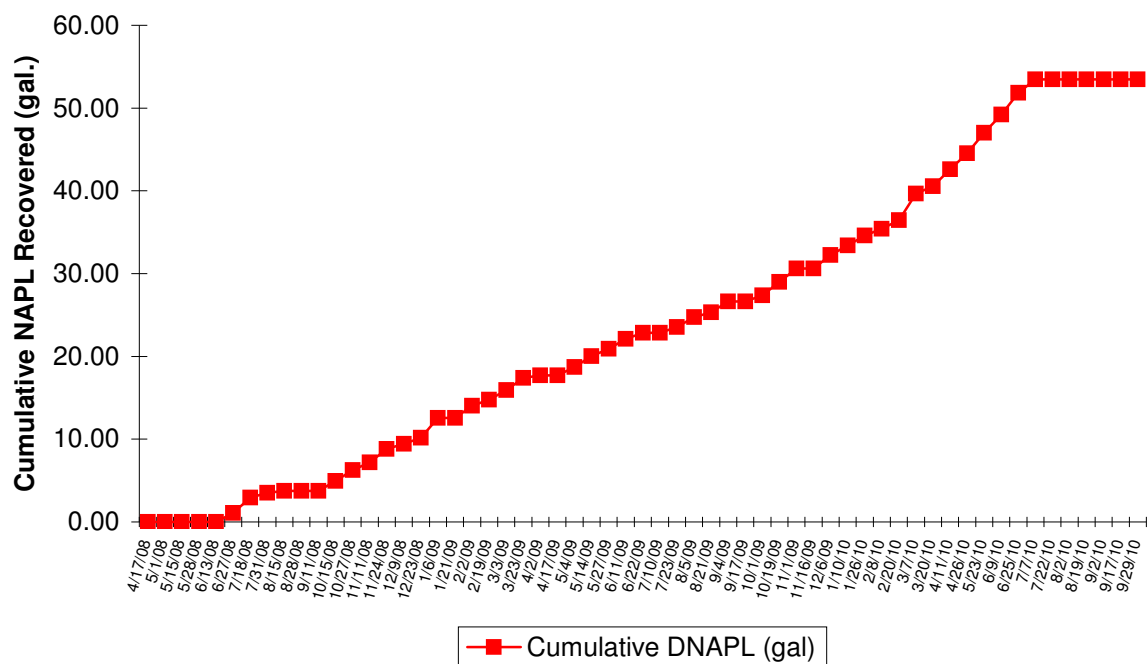


FIGURE 8AE
Well IPR-26 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

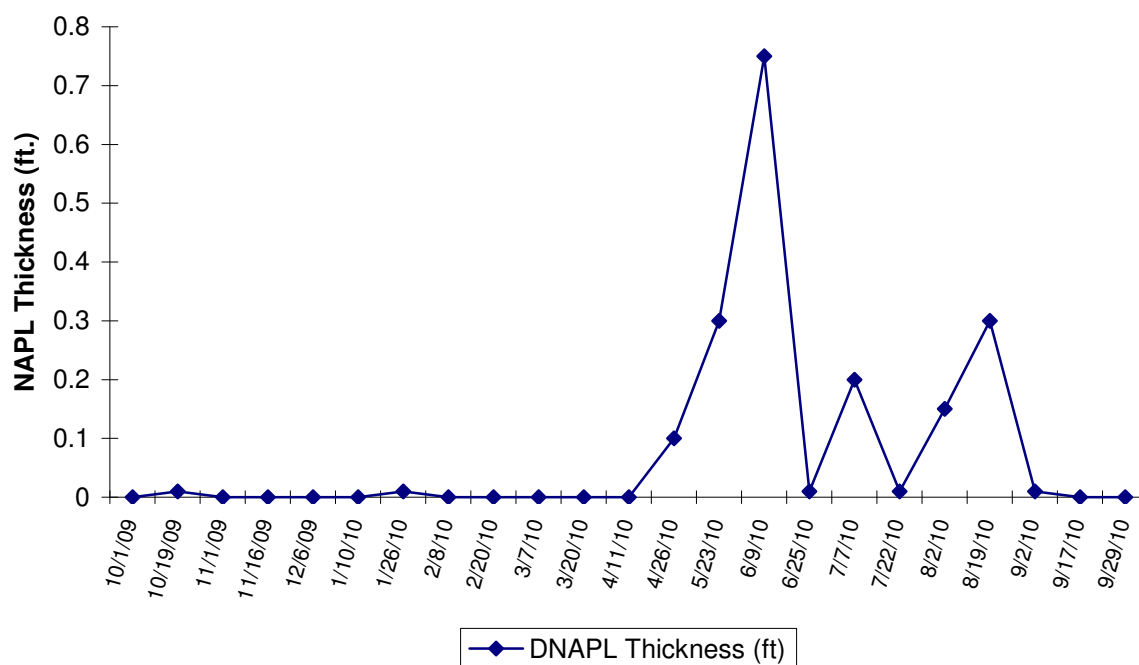
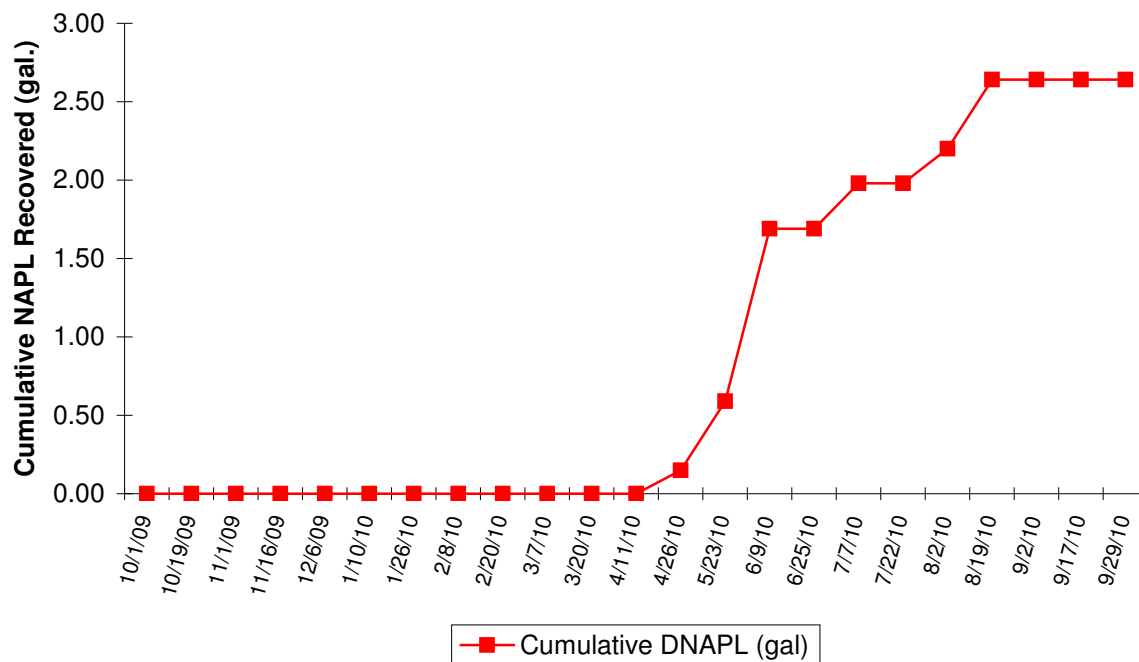


FIGURE 8AF
Well IPR-27 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

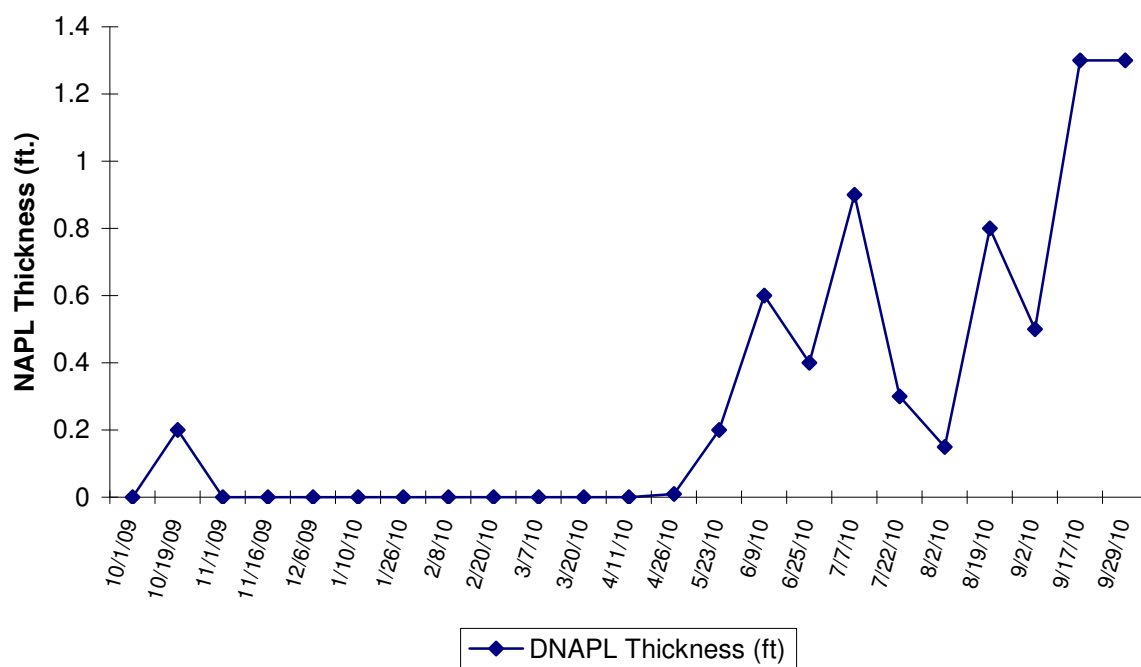
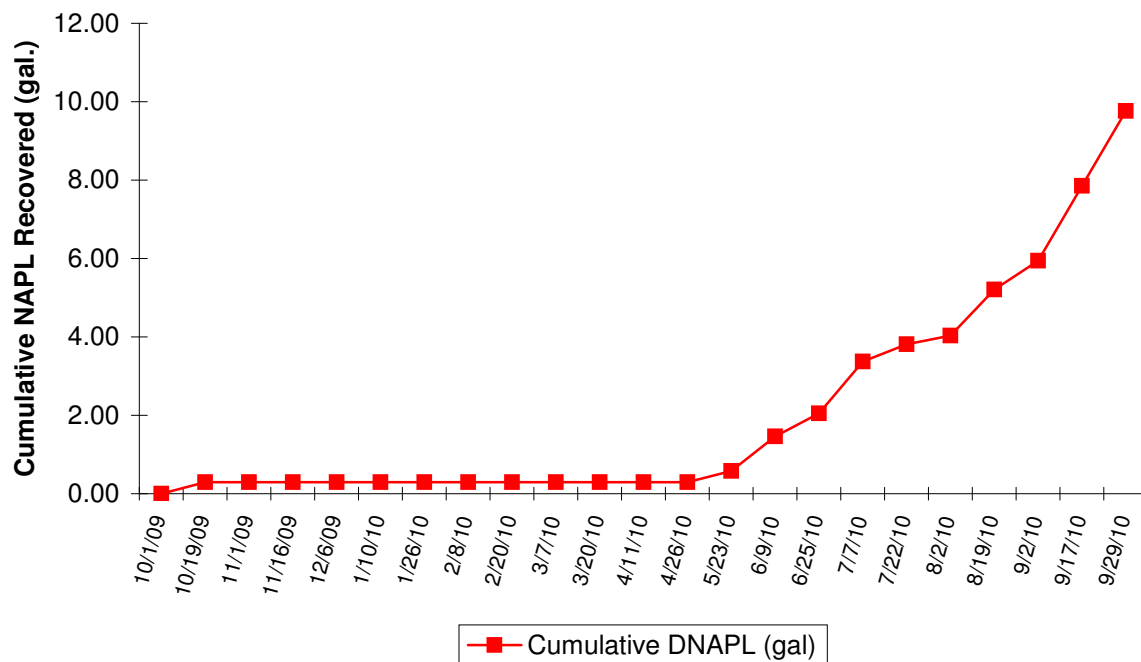


FIGURE 8AG
Well IPR-29 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

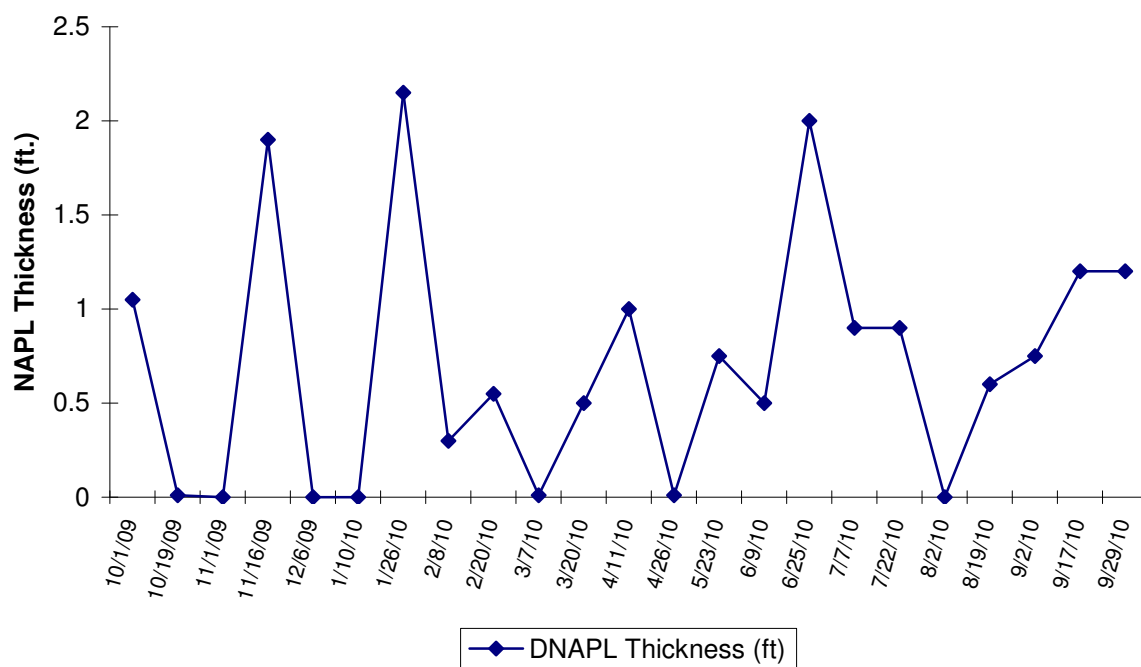
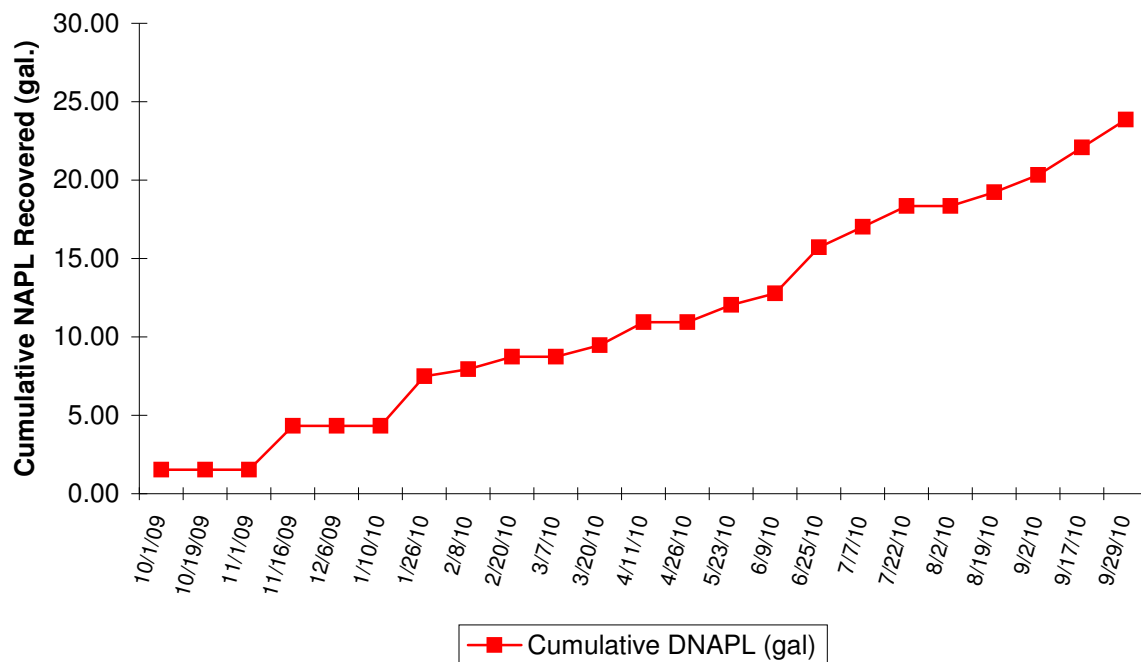
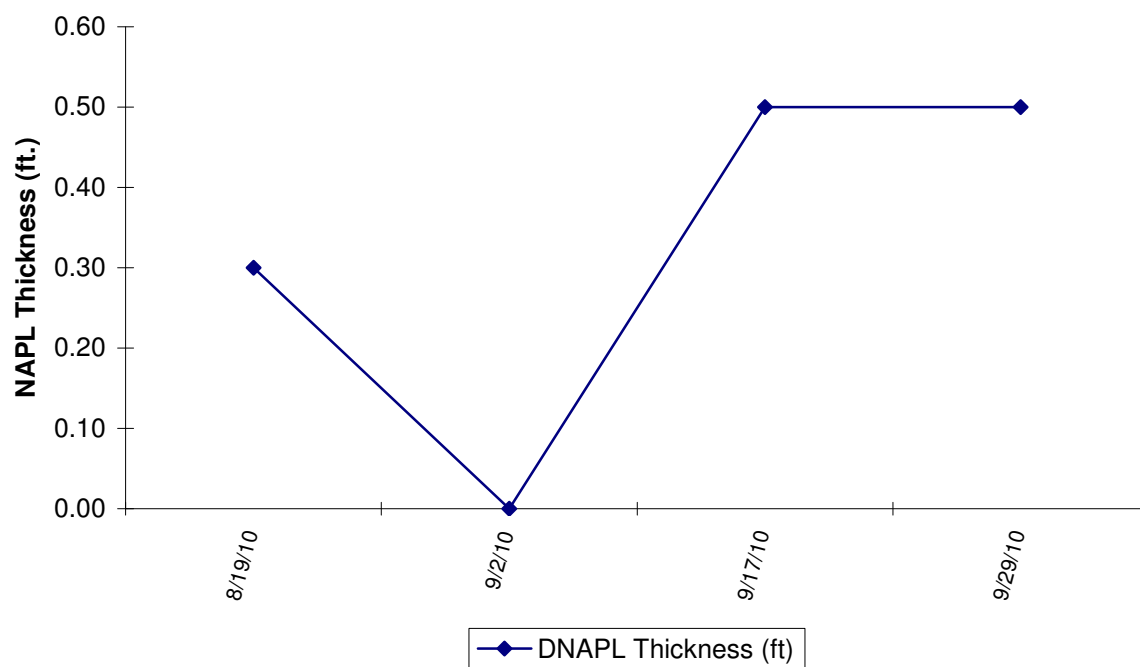
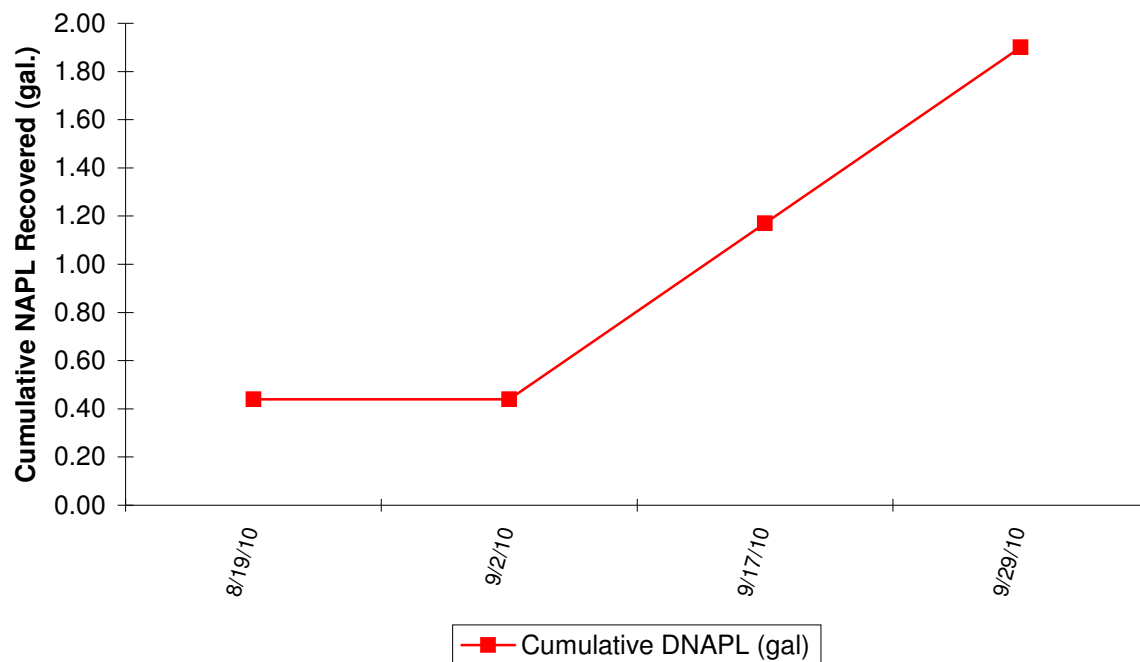


FIGURE 8AH
Well IPR-30 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



APPENDIX A

DATA USABILITY SUMMARY REPORT

(Provided in Electronic Format Only)

**ATTACHMENT A
DATA USABILITY SUMMARY REPORT
THIRD QUARTER 2010**

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

**Analyses Performed by:
H2M LABORATORIES, INC.**

Prepared For:

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

Prepared by:

**URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203**

SEPTEMBER 2010

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V. NON-CONFORMANCES.....	A-3
VI. SAMPLE RESULTS AND REPORTING	A-3
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TABLES (Following Text)

Table A-1	Validated Groundwater Sample Analytical Results
Table A-2	Validated Field QC Sample Analytical Results

APPENDICES (Following Tables)

Appendix A	Validated Form 1'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 *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and Development of Data Usability Summary Reports*, May 2010.

Analytical data for sixteen (16) groundwater samples, one (1) field duplicate, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, one (1) field blank, and three (3) trip blanks collected by URS personnel from July 22-29, 2010 are discussed in this DUSR. The samples were collected as part of the 2010 third quarter groundwater monitoring event at the Hempstead Intersection Street Former MGP Site.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

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

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

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

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B, SOP HW-24, Rev. 2, August 2008; and*
- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Rev. 4, August 2008.*

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

There were no qualifications applied to the data during the data validation. The validated analytical results are presented in Tables A-1 and A-2. Copies of the validated laboratory results (i.e., Form 1's) are presented in Appendix A. Copies of the case narratives and chain-of-custodies are presented in Appendix B.

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 sample containers for HIMW-020S were mislabeled as HIMW-020I, due to a field oversight, but the collection date and time on the sample containers matched those on the COC. No qualification of the data was necessary.

All samples were analyzed within the required holding times.

V. NON-CONFORMANCES

There were no non-conformances noted during the data review that affected the usability of the data.

VI. SAMPLE RESULTS AND REPORTING

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

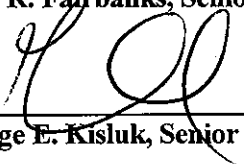
A field duplicate was collected from monitoring well location HIMW-020S, which exhibited good field and analytical precision. There were no target compounds detected in the field duplicate and corresponding parent sample.

VII. SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, and the data are usable as reported. URS does not recommend the re-collection of any samples at this time.

Prepared By: 
Peter R. Fairbanks, Senior Chemist

Date: 9/8/10

Reviewed By: 
George E. Kisluk, Senior Chemist

Date: 9/8/10

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

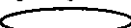
- U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected above the reported sample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

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

Location ID			HIMW-005D	HIMW-005I	HIMW-005S	HIMW-008D	HIMW-008I
Sample ID			HIMW-05D	HIMW-05I	HIMW-05S	HIMW-08D	HIMW-08I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/27/10	07/28/10	07/29/10	07/28/10	07/28/10
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	1 U	3	1 U	1 U	1 U
Ethylbenzene	UG/L	-	2	2	1 U	1 U	1 U
Toluene	UG/L	-	27	1	1 U	1 U	1 U
Xylene (total)	UG/L	-	330 D	180	1 U	1 U	1 U
Total BTEX	UG/L	100	359	186	ND	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	390 D	510 D	10 U	10 U	10 U
Acenaphthene	UG/L	-	3 J	13	10 U	10 U	10 U
Acenaphthylene	UG/L	-	49	180 DJ	10 U	10 U	10 U
Anthracene	UG/L	-	10 U	2 J	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	2 J	26	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	1,900 D	2,200 D	10 U	10 U	10 U
Phenanthrene	UG/L	-	10 U	18	10 U	10 U	10 U
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	2,344	2,949	ND	ND	ND

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

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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

D - Result reported from a secondary dilution analysis.

ND - Not detected.

Made By_PRF 08/31/10; Checked By_AMK 09/01/10_

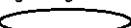
Detection Limits shown are PQL

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

Location ID			HIMW-008S	HIMW-012D	HIMW-012I	HIMW-012S	HIMW-013D
Sample ID			HIMW-08S	HIMW-12D	HIMW-12I	HIMW-12S	HIMW-13D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/28/10	07/27/10	07/27/10	07/27/10	07/23/10
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	1 U	1 U	48	1 U	3
Ethylbenzene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	1 U	1 U	6	1 U	1
Total BTEX	UG/L	100	ND	ND	54	ND	4
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	10 U	10 U	44	10 U	5 J
Acenaphthylene	UG/L	-	2 J	10 U	42	10 U	12
Anthracene	UG/L	-	1 J	10 U	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	10 U	10 U	26	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	10 U	3 J	10 U	10 U
Phenanthrene	UG/L	-	10 U	10 U	10	10 U	10 U
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	3	ND	125	ND	17

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

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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

D - Result reported from a secondary dilution analysis.

ND - Not detected.

Made By_PRF 08/31/10; Checked By_AMK 09/01/10_

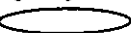
Detection Limits shown are PQL

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

Location ID			HIMW-013I	HIMW-014I	HIMW-015D	HIMW-015I	HIMW-020I
Sample ID			HIMW-13I	HIMW-14I	HIMW-15D	HIMW-15I	HIMW-20I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/23/10	07/23/10	07/22/10	07/22/10	07/26/10
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	-	300 D	30	1 U	20	76
Ethylbenzene	UG/L	-	6	8	1 U	1 U	4
Toluene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	7	3	1 U	1 U	52
Total BTEX	UG/L	100	313	41	ND	20	132
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	5 J
Acenaphthene	UG/L	-	9 J	9 J	10 U	5 J	10
Acenaphthylene	UG/L	-	71	12	10 U	21	140 D
Anthracene	UG/L	-	1 J	10 U	10 U	10 U	3 J
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	11	5 J	10 U	10 U	18
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	1 J	10 U	10 U	10 U	32
Phenanthrene	UG/L	-	11	6 J	10 U	3 J	22
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	104	32	ND	29	230

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

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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

D - Result reported from a secondary dilution analysis.

ND - Not detected.

Made By_PRF 08/31/10; Checked By_AMK 09/01/10_

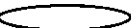
Detection Limits shown are PQL

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

Location ID			HIMW-020S	HIMW-020S
Sample ID			DUP 100726	HIMW-20S
Matrix			Groundwater	Groundwater
Depth Interval (ft)			-	-
Date Sampled			07/26/10	07/26/10
Parameter	Units	Criteria*	Field Duplicate (1-1)	
Volatile Organic Compounds				
Benzene	UG/L	-	1 U	1 U
Ethylbenzene	UG/L	-	1 U	1 U
Toluene	UG/L	-	1 U	1 U
Xylene (total)	UG/L	-	1 U	1 U
Total BTEX	UG/L	100	ND	ND
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/L	-	10 U	10 U
Acenaphthene	UG/L	-	10 U	10 U
Acenaphthylene	UG/L	-	10 U	10 U
Anthracene	UG/L	-	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U
Chrysene	UG/L	-	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U
Fluorene	UG/L	-	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U
Naphthalene	UG/L	-	10 U	10 U
Phenanthrene	UG/L	-	10 U	10 U
Pyrene	UG/L	-	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND

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

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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

D - Result reported from a secondary dilution analysis.

ND - Not detected.

Made By_PRF 08/31/10; Checked By_AMK 09/01/10

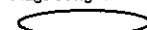
Detection Limits shown are PQL

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

Location ID			FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID			TB072310	TB100727	FB 100729	TB 100729
Matrix			Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)			-	-	-	-
Date Sampled			07/23/10	07/27/10	07/29/10	07/29/10
Parameter	Units	Criteria*	Trip Blank (1-1)	Trip Blank (1-1)	Field Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Benzene	UG/L	-	1 U	1 U	1 U	1 U
Ethylbenzene	UG/L	-	1 U	1 U	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	1 U	1 U	1 U	1 U
Total BTEX	UG/L	100	ND	ND	ND	ND
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/L	-	NA	NA	10 U	NA
Acenaphthene	UG/L	-	NA	NA	10 U	NA
Acenaphthylene	UG/L	-	NA	NA	10 U	NA
Anthracene	UG/L	-	NA	NA	10 U	NA
Benzo(a)anthracene	UG/L	-	NA	NA	10 U	NA
Benzo(a)pyrene	UG/L	-	NA	NA	10 U	NA
Benzo(b)fluoranthene	UG/L	-	NA	NA	10 U	NA
Benzo(g,h,i)perylene	UG/L	-	NA	NA	10 U	NA
Benzo(k)fluoranthene	UG/L	-	NA	NA	10 U	NA
Chrysene	UG/L	-	NA	NA	10 U	NA
Dibenz(a,h)anthracene	UG/L	-	NA	NA	10 U	NA
Fluoranthene	UG/L	-	NA	NA	10 U	NA
Fluorene	UG/L	-	NA	NA	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	-	NA	NA	10 U	NA
Naphthalene	UG/L	-	NA	NA	10 U	NA
Phenanthrene	UG/L	-	NA	NA	10 U	NA
Pyrene	UG/L	-	NA	NA	10 U	NA
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	NA	NA	ND	NA

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

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

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

Made By_PRF 08/31/10; Checked By_AMK 09/01/10

Detection Limits shown are PQL

APPENDIX A

VALIDATED FORM 1'S

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008637-001ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9295.D

Level: (low/med)

LOWDate Received: 07/23/10

% Moisture: not dec.

Date Analyzed: 08/04/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(μL)

Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATER

Lab Sample ID: 1008637-002A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 10\E9296.D

Level: (low/med)

LOW

Date Received: 07/23/10

% Moisture: not dec.

Date Analyzed: 08/04/10

GC Column: Rxi-1MS

ID: .32 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____

(μ L)

Soil Aliquot Volume _____ (μ L)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	<u>300</u> 310	<u>E D</u>
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	6	
1330-20-7	Xylene (total)	7	

8/30/10
2

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13IDL

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008637-002ADLSample wt/vol: 5(g/mL) MLLab File ID: 10\E9314.D

Level: (low/med)

LOWDate Received: 07/23/10

% Moisture: not dec.

Date Analyzed: 08/05/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 2.00

Soil Extract Volume: _____

(μL)

Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

(pg/L or μg/Kg) UG/L

Q

CAS NO.	COMPOUND	(pg/L or μg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	300	D
108-88-3	Toluene	2	U
100-41-4	Ethylbenzene	6	D
1330-20-7	Xylene (total)	8	D

8/30/10

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008637-003ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9297.D

Level: (low/med)

LOWDate Received: 07/23/10

% Moisture: not dec.

Date Analyzed: 08/04/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(µL)

Soil Aliquot Volume _____

(µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	<u>Q</u>
71-43-2	Benzene	30	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	8	
1330-20-7	Xylene (total)	3	

1A

VOLATILE 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-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008637-004ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9292.D

Level: (low/med)

LOWDate Received: 07/23/10

% Moisture: not dec.

Date Analyzed: 08/04/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(pL)

Soil Aliquot Volume _____ (pL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(pg/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.

HIMW-15I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008637-005ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9293.D

Level: (low/med)

LOWDate Received: 07/23/10

% Moisture: not dec.

Date Analyzed: 08/04/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(μL)

Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(pg/L or pg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	20	
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.

TB072310

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS103

Matrix: (soil/water) WATER Lab Sample ID: 1008637-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 10\E9294.D

Level: (low/med) LOW Date Received: 07/23/10

% Moisture: not dec. Date Analyzed: 08/04/10

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(μg/L or μg/Kg) <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-05D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATER

Lab Sample ID: 1008773-001A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 10\E9298.D

Level: (low/med)

LOW

Date Received: 07/27/10

% Moisture: not dec.

Date Analyzed: 08/04/10

GC Column: Rxi-1MS

ID: .32 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____

(μ L)

Soil Aliquot Volume _____ (μ L)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	27	
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene (total)	330 340	E 1

8/30/10

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05DDL

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATER

Lab Sample ID: 1008773-001ADL

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 10\E9315.D

Level: (low/med)

LOW

Date Received: 07/27/10

% Moisture: not dec.

Date Analyzed: 08/05/10

GC Column: Rxi-1MS

ID: .32 (mm)

Dilution Factor: 2.00

Soil Extract Volume: _____

(μ L)

Soil Aliquot Volume _____ (μ L)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	<u>Q</u>
71-43-2	Benzene	2	U
108-88-3	Toluene	28	D
100-41-4	Ethylbenzene	2	U
1330-20-7	Xylene (total)	330	D

8/30/10

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-URS103

Matrix: (soil/water) WATER

Lab Sample ID: 1008773-002A

Sample wt/vol: 5 (g/mL) ML

Lab File ID: 10\E9299.D

Level: (low/med) LOW

Date Received: 07/27/10

% Moisture: not dec.

Date Analyzed: 08/04/10

GC Column: Rxi-1MS

ID: .32 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (μL)

Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <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-121

Lab Name: H2M LABS, INC. Contract: _____
Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS103
Matrix: (soil/water) WATER Lab Sample ID: 1008773-003A
Sample wt/vol: 5 (g/mL) ML Lab File ID: 10\E9300.D
Level: (low/med) LOW Date Received: 07/27/10
% Moisture: not dec. Date Analyzed: 08/04/10
GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00
Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(µg/L or µg/Kg) <u>UG/L</u>	<u>Q</u>
71-43-2	Benzene	48	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	6	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS SAS No.: _____SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008773-004ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9301.D

Level: (low/med)

LOWDate Received: 07/27/10

% Moisture: not dec.

Date Analyzed: 08/04/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(pL)

Soil Aliquot Volume _____ (pL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(pg/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.

HIMW-20I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008773-005ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9302.D

Level: (low/med)

LOWDate Received: 07/27/10

% Moisture: not dec.

Date Analyzed: 08/05/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(μL)

Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	Q
71-43-2	Benzene	76	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	4	
1330-20-7	Xylene (total)	52	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATER

Lab Sample ID: 1008773-006A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 10\E9303.D

Level: (low/med)

LOW

Date Received: 07/27/10

% Moisture: not dec.

Date Analyzed: 08/05/10

GC Column: Rxi-1MS

ID: .32 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) <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.

DUP 100726

Lab Name: H2M LABS, INC.

Contract: _____

(HIMC-0205)

Lab Code: 10478

Case No.: KEY-URS SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATER

Lab Sample ID: 1008773-007A

Sample wt/vol: 5

(g/mL) ML

Lab File ID: 10\E9304.D

Level: (low/med)

LOW

Date Received: 07/27/10

% Moisture: not dec.

Date Analyzed: 08/05/10

GC Column: Rxi-1MS

ID: .32 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____

(μL)

Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(pg/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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB100727

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATER

Lab Sample ID:

1008773-008A

Sample wt/vol:

5(g/mL) ML

Lab File ID:

10\E9305.D

Level: (low/med)

LOW

Date Received:

07/27/10

% Moisture: not dec.

Date Analyzed:

08/05/10GC Column: Rxi-1MSID: .32 (mm)

Dilution Factor:

1.00

Soil Extract Volume:

(µL)

Soil Aliquot Volume

(µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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-051

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008835-001ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9306.D

Level: (low/med)

LOWDate Received: 07/28/10

% Moisture: not dec.

Date Analyzed: 08/05/10GC Column: Rxi-1MSID: .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	3	
108-88-3	Toluene	1	
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene (total)	180	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008835-002ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9307.D

Level: (low/med)

LOWDate Received: 07/28/10

% Moisture: not dec.

Date Analyzed: 08/05/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(pL)

Soil Aliquot Volume _____ (pL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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-081

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS SAS No.: _____SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008835-003ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9316.D

Level: (low/med)

LOWDate Received: 07/28/10

% Moisture: not dec.

Date Analyzed: 08/05/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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-08S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS103

Matrix: (soil/water) WATER Lab Sample ID: 1008835-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 10\E9319.D

Level: (low/med) LOW Date Received: 07/28/10

% Moisture: not dec. Date Analyzed: 08/05/10

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

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

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

HIMW-05S

Lab Name: H2M LABS, INC. Contract: _____
Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS103
Matrix: (soil/water) WATER Lab Sample ID: 1008859-001A
Sample wt/vol: 5 (g/mL) ML Lab File ID: 10\E9320.D
Level: (low/med) LOW Date Received: 07/29/10
% Moisture: not dec. Date Analyzed: 08/05/10
GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00
Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

FB 100729

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008859-002ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9321.D

Level: (low/med)

LOWDate Received: 07/29/10

% Moisture: not dec.

Date Analyzed: 08/05/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(μL)

Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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

TB 100729

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water)

WATERLab Sample ID: 1008859-003ASample wt/vol: 5(g/mL) MLLab File ID: 10\E9322.D

Level: (low/med)

LOWDate Received: 07/29/10

% Moisture: not dec.

Date Analyzed: 08/05/10GC Column: Rxi-1MSID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____

(μL)

Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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

3.2 SEMIVOLATILES

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008637-001BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40523.DLevel: (low/med) LOWDate Received: 07/23/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/27/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 07/30/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	5	J
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008637-002BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40524.DLevel: (low/med) LOWDate Received: 07/23/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/27/10Concentrated Extract Volume: 1000 (μL)Date Analyzed: 07/30/10Injection Volume: 2 (μL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) <u>UG/L</u>	<u>Q</u>
91-20-3	Naphthalene	1	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	71	
83-32-9	Acenaphthene	9	J
86-73-7	Fluorene	11	
85-01-8	Phenanthrene	11	
120-12-7	Anthracene	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008637-003BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40525.DLevel: (low/med) LOWDate Received: 07/23/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/27/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 07/30/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1C

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-URS103Matrix: (soil/water) WATERLab Sample ID: 1008637-004BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40526.DLevel: (low/med) LOWDate Received: 07/23/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/27/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 07/30/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-151

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water) WATER

Lab Sample ID: 1008637-005B

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

Lab File ID: 0\N40527.D

Level: (low/med) LOW

Date Received: 07/23/10

% Moisture: Decanted: (Y/N) N

Date Extracted: 07/27/10

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 07/30/10

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	21	J
83-32-9	Acenaphthene	5	J
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	3	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008773-001BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40647.DLevel: (low/med) LOWDate Received: 07/27/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/30/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/06/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L Q

91-20-3	Naphthalene	1900	880	B-D
91-57-6	2-Methylnaphthalene	390	320	B-D
208-96-8	Acenaphthylene		49	
83-32-9	Acenaphthene		3	J
86-73-7	Fluorene		2	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

8/30/10
2

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05DDL

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water) WATER

Lab Sample ID: 1008773-001BDL

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

Lab File ID: 0\N40695.D

Level: (low/med) LOW

Date Received: 07/27/10

% Moisture: Decanted: (Y/N) N

Date Extracted: 07/30/10

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 08/10/10

Injection Volume: 2 (μL)

Dilution Factor: 25.00

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	1900	D
91-57-6	2-Methylnaphthalene	390	D
208-96-8	Acenaphthylene	59	DJ
83-32-9	Acenaphthene	250	U
86-73-7	Fluorene	250	U
85-01-8	Phenanthrene	250	U
120-12-7	Anthracene	250	U
206-44-0	Fluoranthene	250	U
129-00-0	Pyrene	250	U
56-55-3	Benzo (a) anthracene	250	U
218-01-9	Chrysene	250	U
205-99-2	Benzo (b) fluoranthene	250	U
207-08-9	Benzo (k) fluoranthene	250	U
50-32-8	Benzo (a) pyrene	250	U
193-39-5	Indeno (1,2,3-cd) pyrene	250	U
53-70-3	Dibenzo (a,h) anthracene	250	U
191-24-2	Benzo (g,h,i) perylene	250	U

(1) Cannot be separated from Diphenylamine

8/30/10
2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008773-002BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40648.DLevel: (low/med) LOWDate Received: 07/27/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/30/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/06/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC 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.3
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-12I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008773-003BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40649.DLevel: (low/med) LOWDate Received: 07/27/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/30/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/06/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	<u>Q</u>
91-20-3	Naphthalene	3	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	42	3
83-32-9	Acenaphthene	44	
86-73-7	Fluorene	26	
85-01-8	Phenanthrene	10	
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-12S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103

Matrix: (soil/water) WATER

Lab Sample ID: 1008773-004B

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

Lab File ID: 0\N40650.D

Level: (low/med) LOW

Date Received: 07/27/10

% Moisture: Decanted: (Y/N) N

Date Extracted: 07/30/10

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 08/06/10

Injection Volume: 2 (μL)

Dilution Factor: 1.00

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

Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008773-005BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40651.DLevel: (low/med) LOWDate Received: 07/27/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/30/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/06/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC 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	32	
91-57-6	2-Methylnaphthalene	5	J
208-96-8	Acenaphthylene	140 110	B D
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	18	
85-01-8	Phenanthrene	22	
120-12-7	Anthracene	3	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

8/30/10

KEY-URS103 S66

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20IDL

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008773-005BDLSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40696.DLevel: (low/med) LOWDate Received: 07/27/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/30/10Concentrated Extract Volume: 1000 (μL)Date Analyzed: 08/10/10Injection Volume: 2 (μL)Dilution Factor: 4.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

(μg/L or μg/Kg) UG/L Q

CAS NO.	COMPOUND		
91-20-3	Naphthalene	36	DJ
91-57-6	2-Methylnaphthalene	40	U
208-96-8	Acenaphthylene	140	DJ
83-32-9	Acenaphthene	12	DJ
86-73-7	Fluorene	20	DJ
85-01-8	Phenanthrene	24	DJ
120-12-7	Anthracene	40	U
206-44-0	Fluoranthene	40	U
129-00-0	Pyrene	40	U
56-55-3	Benzo (a) anthracene	40	U
218-01-9	Chrysene	40	U
205-99-2	Benzo (b) fluoranthene	40	U
207-08-9	Benzo (k) fluoranthene	40	U
50-32-8	Benzo (a) pyrene	40	U
193-39-5	Indeno (1,2,3-cd) pyrene	40	U
53-70-3	Dibenzo (a,h) anthracene	40	U
191-24-2	Benzo (g,h,i) perylene	40	U

(1) Cannot be separated from Diphenylamine

8/30/10
2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008773-006BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40652.DLevel: (low/med) LOWDate Received: 07/27/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/30/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/06/10Injection 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) <u>UG/L</u>	<u>Q</u>
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP 100726

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008773-007BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40653.DLevel: (low/med) LOWDate Received: 07/27/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/30/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/06/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(μg/L or μg/Kg) UG/L Q

91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-051

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008835-001BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40658.DLevel: (low/med) LOWDate Received: 07/28/10% Moisture: Decanted: (Y/N) NDate Extracted: 08/02/10Concentrated Extract Volume: 1000 (μL)Date Analyzed: 08/07/10Injection Volume: 2 (μL)Dilution Factor: 1.00GPC 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	2200 1200	ED
91-57-6	2-Methylnaphthalene	510	ED
208-96-8	Acenaphthylene	180 170	ED
83-32-9	Acenaphthene	13	
86-73-7	Fluorene	26	
85-01-8	Phenanthrene	18	
120-12-7	Anthracene	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

8/30/10

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05IDL

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008835-001BDLSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40697.DLevel: (low/med) LOWDate Received: 07/28/10% Moisture: Decanted: (Y/N) NDate Extracted: 08/02/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/10/10Injection Volume: 2 (μ L)Dilution Factor: 50.00GPC Cleanup: (Y/N) N

pH: _____

Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	2200	D
91-57-6	2-Methylnaphthalene	510	D
208-96-8	Acenaphthylene	180	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

8/30/10

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008835-002BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40690.DLevel: (low/med) LOWDate Received: 07/28/10% Moisture: Decanted: (Y/N) NDate Extracted: 08/02/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/10/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-081

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008835-003BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40693.DLevel: (low/med) LOWDate Received: 07/28/10% Moisture: Decanted: (Y/N) NDate Extracted: 08/02/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/10/10Injection 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) <u>UG/L</u>	<u>Q</u>
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008835-004BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40694.DLevel: (low/med) LOWDate Received: 07/28/10% Moisture: Decanted: (Y/N) NDate Extracted: 08/02/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/10/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC 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	2	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008859-001BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40654.DLevel: (low/med) LOWDate Received: 07/29/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/30/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/06/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(μ g/L or μ g/Kg) UG/L Q

91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenzo (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB 100729

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS103Matrix: (soil/water) WATERLab Sample ID: 1008859-002BSample wt/vol: 1000 (g/mL) MLLab File ID: 0\N40655.DLevel: (low/med) LOWDate Received: 07/29/10% Moisture: Decanted: (Y/N) NDate Extracted: 07/30/10Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 08/06/10Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

APPENDIX B

SUPPORT DOCUMENTATION

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076

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

33361

EXTERNAL CHAIN OF CUSTODY

PROJECT NAME/NUMBER National Grid 3rd Quarter GW sampling 2010 11176098.00004		CLIENT: <u>URS</u>		H2M SDG NO: <u>KEY-URS103</u>	
SAMPLERS: (signature)/Client <i>H. Dasari</i> / H. Brian Becker		Project Contact: <u>Kevin Connor</u>		Phone Number: <u>716 923-1165</u>	
DELIVERABLES: <u>Megan Dasari / Megan Dasari</u>		PIS/Quote #			
TURNAROUND TIME: <u>Standard</u>		NOTES:			
DATE	TIME	MATRIX	FIELD I.D.	LAB I.D. NO.	REMARKS:
7/22	1135	GW	H1MW-15D	1008637-004	
7/22	1308	GW	H1MW-15I	-003	
7/23	0708	GW	H1MW-14I	-003	
7/23	1110	GW	H1MW-13D	-001	
7/23	0950	GW	H1MW-13I	-002	
7/23	1120	W	TB072310	-006	
ANALYSIS REQUESTED					
ORGANIC			INORG.		
VQA			Metal		
BVA					
P&P					
PCB					
Total No. of Containers					
Sample Container Description					
BTEX 82606					
PAH 82706					
LABORATORY USE ONLY					
Discrepancies Between Sample Labels and COC Record? Y or N			Explain:		
1. Shipped as Hand Delivered / Airbill			2. Ambient or Chilled Temp. <u>5.6°C on ice</u>		
3. Received in good condition			4. Properly preserved: <u>Y</u> <u>N</u>		
COC TAGS WERE:					
1. Present on outer package: <u>Y</u> <u>N</u>			2. Unbroken on outer package: <u>Y</u> <u>N</u>		
3. COC record present & complete upon sample receipt: <u>Y</u> <u>N</u>					

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076

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

1/8U/

EXTERNAL CHAIN OF CUSTODY

PROJECT NAME/NUMBER		CLIENT: URS Corporation		H2M SDG NO: KEY-UGS103	
SAMPLERS: (signature) <i>Chen</i> H Brian Becker / <i>H. Becker</i>		Sample Container Description		NOTES:	
11176098-00004		↑			
DELIVERABLES:					
TURNAROUND TIME: <i>Standard</i>					
DATE	TIME	MATRIX	FIELD I.D.	ANALYSIS REQUESTED	REMARKS:
7/26/10	1235	GW	H1MW-20S	ORGANIC VOA X BNA X PDB X	LAB I.D. NO. 1008773-006
7/26/10	1357	GW	H1MW-20T	ORGANIC VOA X BNA X PDB X	-005
7/26/10	1200	GW	DUP 100726	ORGANIC VOA X BNA X PDB X	-007
7/27/10	810	GW	H1MW-05D	ORGANIC VOA X BNA X PDB X	-001
7/27/10	950	GW	H1MW-12S	ORGANIC VOA X BNA X PDB X	-004
7/27/10	1130	GW	H1MW-12T	ORGANIC VOA X BNA X PDB X	-003
7/27/10	1305	GW	H1MW-12D	ORGANIC VOA X BNA X PDB X	-002
7/27/10	1305	W	TB100727	ORGANIC VOA X BNA X PDB X	-008
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 14:00		LABORATORY USE ONLY	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		Discrepancies Between Sample Labels and COC Record? Y or N	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		Explain:	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		COC Test was:	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		1. Shipped or Hand Delivered: ☒ <i>Archives</i>	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		2. Ambient or chilled, Temp: <i>4.7°C ON ICE</i>	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		3. Received in good condition: <i>Y or N</i>	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		4. Properly preserved: <i>Y or N</i>	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		COC Test was:	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		1. Present on outer package: <i>Y or N</i>	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		2. Unbroken on outer package: <i>Y or N</i>	
Relinquished by: (Signature) <i>Shen</i>		Date 7/27/10 Time 17:10		3. COC record present & complete upon sample receipt: <i>Y or N</i>	

WHITE COPY ORIGINAL
KEY-UGS103A12

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

KEY-URS 103

H2M LABS, INC.

Sample Receipt Checklist

Client Name KEY-URS

Date and Time Received:

7/27/2010 5:10:00 PM

Work Order Number 1008773

Received by CDB

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Applicable ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Applicable ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☒	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

Adjusted?

Checked by

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

Client contacted

No

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Vials for sample 208 were labeled 20I.
 Samples were identified by collection times

Corrective Action

KEY-URS103 A13

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076

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

PROJECT NAME/NUMBER

National Grid
Hempstead, NY

11176898.00004

SAMPLERS: (signature)/Client
H. Brian Becker

DELIVERABLES:

TURNAROUND TIME: Standard

DATE	TIME	MATRIX	FIELD I.D.
11/11/2011	11:11	11:11	11:11

7/28/10	805	GW	H1MW-05I
7/28/10	945	GW	H1MW-08D
7/28/10	1000	GW	H1MW-08D ms/MSD
7/28/10	1155	GW	H1MW-08F
7/28/10	1310	GW	H1MW-08S

Relinquished by: (Signature)

[illegible]

10/10/10

Requested by: (signature) _____
Date: 1/7/2017 Time: 2:00

S.W.	18.13
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Relinquished by: (Signature)	Date	Time
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10

Relinquished by: (Signature)		Date	Time

100

[illegible]

WHITE COPY ORIGINAL

WHITE COPY - ORIGINAL
KEY-103 ALX

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

[illegible]

H2M LABS, INC.

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

30634

EXTERNAL CHAIN OF CUSTODY

PROJECT NAME/NUMBER National Grid Hempstead, NY 11176098.00004 SAMPLERS: (signature)/Client H Brian Becker VRS		CLIENT: VRS Corp		H2M SDG NO: KEY-UR5103	
DELIVERABLES:		NOTES:		Project Contact: Kevin Connor Phone Number: 716923-1165 PIS/Quote #	
TURNAROUND TIME: Standard		ANALYSIS REQUESTED		LAB I.D. NO.	
DATE	TIME	MATRIX	FIELD I.D.	ORGANIC	INORG.
7/29/10	810	GW	H1M1W-055	X	X
7/29/10	810	W	TB100729	X	X
7/29/10	820	W	FB100729	X	X
Requisitioned by: (Signature)		Date	Time	Requisitioned by: (Signature)	
Requisitioned by: (Signature)		7/29/10	14:35	Requisitioned by: (Signature)	
Requisitioned by: (Signature)		7/29/10	14:35	Requisitioned by: (Signature)	
Requisitioned by: (Signature)		Date	Time	Requisitioned by: (Signature)	
Requisitioned by: (Signature)		Date	Time	Requisitioned by: (Signature)	

WHITE COPY 03 ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 7/23/10, 7/27/10, 7/28/10 & 7/29/10
SDG #: KEY-URS103

For Sample(s):

HIMW-13D	HIMW-12D	HIMW-05I
HIMW-13I	HIMW-12I	HIMW-08D
HIMW-14I	HIMW-12S	HIMW-08I
HIMW-15D	HIMW-20I	HIMW-08S
HIMW-15I	HIMW-20S	HIMW-05S
TB072310	DUP 100726	FB 100729
HIMW-05D	TB100727	TB 100729

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

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

Sample HIMW-08D was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPD's were met.

Samples HIMW-13I and HIMW-05D were reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Both sets of data are submitted.

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: August 13, 2010

*

*

Joann M. Slavin
Senior Vice President

KEY-URS103 A3

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 7/23/10, 7/27/10, 7/28/10 & 7/29/10
SDG #: KEY-URS103

For Sample(s):

HIMW-13D	HIMW-12D	HIMW-05I
HIMW-13I	HIMW-12I	HIMW-08D
HIMW-14I	HIMW-12S	HIMW-08I
HIMW-15D	HIMW-20I	HIMW-08S
HIMW-15I	HIMW-20S	HIMW-05S
HIMW-05D	DUP 100726	FB 100729

The above sample(s) was/were analyzed for a select list of semivolatile organic analytes (polynuclear aromatics) by EPA method 8270C. ~~The acetonitrile extracts were solvent exchanged to methylene chloride. Concentrations are reported for the extracts submitted.~~

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

8/30/10
H
Sample HIMW-08D was analyzed as the matrix spike / matrix spike duplicate. All percent recoveries and RPD's were met. Lab fortified blanks were analyzed and indicate good method efficiency.

Sample HIMW-05S, HIMW-20I and HIMW-05I were reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Sample HIMW-05I had a high surrogate recovery for d5 nitrobenzene in the undiluted analysis. All surrogate recoveries were diluted out in the dilution.

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: August 16, 2010

*
*

Joann M. Skavin
Senior Vice President

KEY-URS103 A4

APPENDIX B

SOIL VAPOR SAMPLING DATA

Table X
Analytical Soil Gas Results
Hempstead Site
Hempstead, New York

Validated

Sample Name: Sample Date:	NYSDOH Background Upper Fence Outdoor Air Concentrations	HIVP-16 6/11/2010	HIVP-17 6/11/2010	HIVP-18 6/11/2010
BTEX (ug/m3)				
Benzene	4.8	1.3 U	1.3 U	1.3 U
Toluene	5.1	0.84 J	3.7	2.0
Ethylbenzene	1	1.7 U	1.7 U	1.7 U
Xylene, m,p-	1	3.5 U	3.5 U	1.0 J
Xylene, o-	1.2	1.7 U	1.7 U	1.7 U
Other VOCs (ug/m3)				
Acetaldehyde	NE	3.0 J	3.6 J	3.1 J
Acetone	30	1.6 J	3.8 J	1.9 J
Acrolein (propenal)	NE	2.3 U	2.3 U	2.3 U
Allyl chloride	NE	1.2 U	1.2 U	1.2 U
Benzothiophene	NE	5.5 U	5.5 U	5.5 U
Bromodichloromethane	NE	2.7 U	2.7 U	2.7 U
Bromoform	NE	4.1 U	4.1 U	4.1 U
Bromomethane	0.5	1.6 U	1.6 U	1.6 U
Butadiene, 1,3-	NE	0.88 U	0.88 U	0.88 U
Butane	NE	0.95 U	0.95 U	0.95 U
Butanone,2-	5.3	1.2 U	1.2 U	1.2 U
Carbon disulfide	NE	1.2 U	1.2 U	1.2 U
Carbon tetrachloride	1.2	2.5 U	2.5 U	2.5 U
Chlorobenzene	0.25	1.8 U	1.8 U	1.8 U
Chloroethane	0.4	1.0 U	1.0 U	1.0 U
Chloroform	0.5	2.0 U	2.0 U	2.0 U
Chloromethane	4.3	0.23 J	0.83 U	0.83 U
Chlorotoluene,2-	NE	2.1 U	2.1 U	2.1 U
Cryofluorane	0.5	2.8 U	2.8 U	2.8 U
Cyclohexane	0.9	1.4 U	1.4 U	1.4 U
Decane, n-	4.7	2.3 U	2.3 U	2.3 U
Dibromochloromethane	NE	3.4 U	3.4 U	3.4 U
Dibromoethane,1,2-	0.4	3.1 U	3.1 U	3.1 U
Dichlorobenzene,1,2-	0.4	2.4 U	2.4 U	2.4 U
Dichlorobenzene,1,3-	0.4	2.4 U	2.4 U	2.4 U
Dichlorobenzene,1,4-	0.5	2.4 U	2.4 U	2.4 U
Dichlorodifluoromethane	10	2.8	2.8	2.6
Dichloroethane,1,1-	0.25	1.6 UJ	1.6 UJ	1.6 UJ
Dichloroethane,1,2-	0.4	1.6 U	1.6 U	1.6 U
Dichloroethene, cis-1,2-	0.4	1.6 U	1.6 U	1.6 U
Dichloroethene,1,1-	0.4	1.6 U	1.6 U	1.6 U
Dichloropropane,1,2-	0.4	1.8 U	1.8 U	1.8 U
Dichloropropene, cis-1,3	0.4	1.8 U	1.8 U	1.8 U
Dichloropropene, trans-1,3	0.25	1.8 U	1.8 U	1.8 U
Dioxane,1,4-	NE	1.4 U	1.4 U	1.4 U
Dodecane, n-	4.5	1.2 J	0.79 J	2.8 U
Ethanol	34	1.3 J	1.8 J	1.7 J
Ethylthiophene, 2-	NE	1.8 U	1.8 U	1.8 U
Ethyltoluene, p-	NE	2.0 U	2.0 U	2.0 U
Heptane, n-	2.2	1.6 U	1.6 U	1.6 U

Table X
Analytical Soil Gas Results
Hempstead Site
Hempstead, New York

Validated

Hexachlorobutadiene	0.5	4.3 U	4.3 U	4.3 U
Hexane, n-	2	1.4 U	1.4 U	1.4 U
Hexanone,2-	NE	1.6 U	1.6 U	1.6 U
Indan	NE	1.9 U	1.9 U	1.9 U
Indene	NE	0.59 J	0.86 J	1.6 J
Methyl tert-butyl ether	1.9	1.4 U	1.4 U	1.4 U
Methyl-2-pentanone,4-	0.5	1.6 U	1.6 U	1.6 U
Methylene chloride	1.6	1.4 J	1.1 J	1.5 J
Methylnaphthalene,1-	NE	5.8 U	5.8 U	5.8 U
Methylnaphthalene,2-	NE	5.8 U	5.8 U	5.8 U
Methylthiophene, 2-	NE	1.6 U	1.6 U	1.6 U
Methylthiophene, 3-	NE	1.6 U	1.6 U	1.6 U
Naphthalene	NE	0.62 J	0.84 J	1.4 J
Nonane	0.7	2.1 U	2.1 U	2.1 U
Octane, n-	1.5	1.9 U	1.9 U	1.9 U
Pentane	NE	1.2 U	0.60 J	1.2 U
Propanol,2-	NE	2.5 U	2.5 U	2.5 U
Styrene	0.5	1.7 U	1.7 U	1.7 U
t-Butyl alcohol	NE	1.2 U	1.2 U	1.2 U
Tetrachloroethane,1,1,2,2-	0.4	2.7 U	2.7 U	2.7 U
Tetrachloroethene	0.7	3.7	4.4	1.1 J
Tetramethylbenzene, 1,2,4,5-	NE	2.2 U	2.2 U	2.2 U
Thiophene	NE	1.4 U	1.4 U	1.4 U
Trans-1,2-dichloroethene	NE	1.6 U	1.6 U	1.6 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	2.5	3.1 U	3.1 U	3.1 U
Trichlorobenzene,1,2,4-	0.4	3.0 U	3.0 U	3.0 U
Trichloroethane,1,1,1-	0.6	2.2 U	2.2 U	2.2 U
Trichloroethane,1,1,2-	0.3	2.2 U	2.2 U	2.2 U
Trichloroethene	0.4	2.2 U	2.2 U	2.2 U
Trichlorofluoromethane	5.1	1.7 J	2.0 J	1.4 J
Trimethylbenzene,1,2,3-	0.5	2.0 U	2.0 U	2.0 U
Trimethylbenzene,1,2,4-	1.9	2.0 U	0.60 J	0.76 J
Trimethylbenzene,1,3,5-	0.7	2.0 U	2.0 U	2.0 U
Trimethylpentane, 2,2,4-	0.7	1.9 U	1.9 U	1.9 U
Undecane, n-	1.5	0.66 J	0.95 J	0.72 J
Vinyl bromide	NE	1.8 U	1.8 U	1.8 U
Vinyl chloride	0.4	1.0 U	1.0 U	1.0 U
Other (%)				
Helium	NE	0.0167 U	0.0174 U	0.0187 U

Table X
Analytical Soil Gas Results
Hempstead Site
Hempstead, New York

Validated

Notes:

ug/m³ - micrograms per cubic meter

BTEX - benzene, toluene, ethylbenzene, and xylenes

VOCs - volatile organic compounds

¹ Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003. Background values for naphthalene are from the NYSDOH 1997 Control Home Database presented in Table C3 of the NYSDOH 2006 Guidance.

NE - not established

Bolding indicates a detected result concentration

Shading and bolding indicates that the detected concentration is above the NYSDOH guidance it was compared to

Validation Qualifiers:

J - estimated value

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated