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NWS EARLE
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ENVIRONMENTAL CONSTRUCTION OPERATIONS & REMEDIATION

Final Bioslurper Status Report

September 2005 through November 2005

Naval Weapons Station Earle (NWS Earle)
Colts Neck, New Jersey
N62472-03-D-0802

Submitted:

15 February 2006

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1.0 INTRODUCTION

ECOR Solutions, Inc. (ECOR) is contracted by Engineering Field Activity Northeast (EFANE) to operate two bioslurper units for Site 16F at Naval Weapons Station (NWS) Earle located in Colts Neck, New Jersey. This system operational report is being submitted to present system operational data from 1 September to 30 November 2005 for Task Order No. 0017 under Contract No. N62472-03-D-0802.

This report summarizes the results of continued bioslurper operations at Site 16F at the NWS-Earle facility, including product recovery, groundwater recovery, and system water and vapor analytical results for both bioslurper systems. ECOR assumed system operation on 5 April 2004. Prior to that date, the systems were operated by Tetra Tech FW, Inc. (TtFW). Historical operational data and background information provided by TtFW are included in this report.

Bioslurper Unit No. 1 (located adjacent to the former location of Building C-16) normally operates from the following extraction wells: 16-MW-04, 16MW-13, 16MW-14, 16MW-15, 16MW-25, 16MW-26, 16MW-27 and vapor extraction wells: 16MW-22 and 16MW-23. Bioslurper Unit No. 2 (located north of Building C-50) normally operates from 16MW-16, 16MW-17, 16MW-18, 16MW-19, 16MW-20, 16MW-21, and C17/20MW-07. Various extraction wells are utilized during system operation based upon the thickness of light non-aqueous phase liquid (LNAPL) present.

Due to minimal LNAPL recovery, Bioslurper Unit No. 2 was deactivated on 17 November 2004 as directed by EFANE. ECOR was advised by EFANE on 28 October 2004 that approval had been obtained from the New Jersey Department of Environmental Protection (NJDEP) to deactivate Bioslurper #2. Media from the liquid-phase treatment equipment (clay and carbon absorbers) was subsequently removed, and the usable clay vessels were installed in Bioslurper Unit No. 1. All other primary equipment remains installed at Bioslurper Unit No. 2. The subgrade piping network is designed to allow Bioslurper Unit No. 1 to utilize wells normally associated with Bioslurper Unit No. 2.

2.0 PROJECT LOCATION AND DESCRIPTION

NWS-Earle is located in east-central Monmouth County in the town of Colts Neck, New Jersey as depicted in **Figure 2-1**. Site 16F is located in the north-central portion of NWS-Earle. The areas addressed with the bioslurper remediation system at Site 16F are the LNAPL plume southeast of Building C-16, the small LNAPL plume northwest of Building C-50, and a former gas station west of Building C-18.

An underground fuel line located in the area north of Building C-19 was used to transport diesel fuel from an underground storage tank (UST) located at the northeast corner of Building C-18 to a dispensing station north of Building C-50. A leak in the fuel line was discovered in 1977. All of the former USTs were removed from the former gas station in 1998. Part of the former underground diesel transfer line is still in place.

2.1 Previous Investigations

Between June and October of 1995, Brown and Root Environmental conducted a Remedial Investigation (RI) at Site 16F. The RI Report concluded that hydrocarbons detected in the subsurface impacted the groundwater. The groundwater contamination (primarily volatile organics and fuel constituents) is associated with a free-phase LNAPL layer. This floating product is the source of organics in the groundwater.

In 1995, the Navy conducted an investigation at Site 16F using a Site Characterization and Analysis Penetrometer System (SCAPS). SCAPS is a field screening technique, which detects polynuclear aromatic hydrocarbon (PAH) compounds using a Laser Induced Fluorescence (LIF) system. The LIF is quantitative to a known matrix with a known contaminant. A soil sample collected at the site was used to calibrate the LIF using diesel fuel marine. The fluorescent mapping, obtained from the push samples, was used to gain a better understanding of the contaminant distribution. Twenty nine (29) SCAPS borings were completed in the area between Building C-16 and C-50.

The LNAPL plume to the south and east of Building C-16 is suspected to have been the result of the leaking former underground diesel fuel line. As evidenced by laboratory analytical results of groundwater samples, there is also some residual gasoline contamination associated with the plume near Building C-16.

The LNAPL plume north of Building C-50 is suspected to have been the result of minor spills at a former diesel dispensing station located between the railroad tracks, north of Building C-50.

2.2 Geology

Site 16F is located within the Outer Coastal Plain of the Atlantic Coastal Plain Physiographic Province, approximately nine miles inland from the Atlantic Ocean. The site is relatively flat with most of the topographic relief being the drainage swales located between the railroad tracks. According to regional mapping, the site is located on an outcropping of the Vincentown Formation and upper colluvium. The upper colluvium, where present, is shallow and consists of massive sand and silty sand, which may contain quartz or ironstone pebbles. The Vincentown Formation consists of grey and green gluaconitic, fine to coarse-grained sand with silt.

According to the information obtained from the well installation logs and the SCAPS Investigation, the soil underlying the site is composed of fine to medium grained sand and silty sand.

3.0 BIOSLURPER OBJECTIVES AND PLUME CHARACTERISTICS

The objectives of the bioslurper systems operations are to conduct remedial operations in three separate areas: 1) the main LNAPL plume located south and southeast of Building C-16; 2) a smaller LNAPL plume northwest of Building C-50; and 3) the residual soil contamination associated with the former gas station site west of Building C-18.

The initial LNAPL phase is mobile, and migrates downward through the unsaturated (vadose) zone due to gravitational forces until either the water table or a stratigraphic barrier is encountered. The viscosity of the LNAPL, the groundwater gradient, and the permeability of the aquifer media control the rate of LNAPL migration. A "smear zone" develops when the mobile LNAPL is smeared vertically through seasonal fluctuations in the water table. Once the smear zone develops, a portion of the LNAPL exists as a discontinuous non-wetting liquid phase (residual) that is relatively immobile except at seasonal low water table. An increased smear zone reduces the volume of the remaining mobile LNAPL.

Based on previous data gathered from water level measurements obtained in the recovery wells, the elevations in the wells vary as much as 3.90 to 7.29-feet below grade, with the average groundwater fluctuation of 5.79-feet in a well. Therefore the LNAPL is being smeared vertically across a smear zone of almost 6-feet. The main free product plume is located to the east and south of Building C-16. The LNAPL plume area is overlain by drainage ditches and railroad tracks. Due to the topographic depressions of the drainage ditches, and the permeability of the ballast associated with the railroad tracks, the localized groundwater table is subject to excessive water table fluctuations from rain events, which cause an increase in the vertical distribution of the oil across the smear zone. According to Peargin, Ireland, and Stephenson (1997), the larger percentages of LNAPL occur within the smear zone versus the vadose zone.

As depicted in the current LNAPL thickness figures (**Figure 5-1** through **Figure 5-3**) the majority of remaining LNAPL is located in the southwest portion of the plume near former Building C-16. The concentration of the LNAPL appears to be underlying the parking lot area south of former Building C-16. LNAPL is also located east of former Building C-16 in the area between the railroad tracks (influenced by groundwater elevation). The western extent of the LNAPL plume is not completely defined. The estimated boundaries of the LNAPL plume generated from the SCAPS Investigation (dashed line in figures) have been used to define the original LNAPL plume boundary. Current data shows that the extent of the LNAPL plume has decreased significantly with treatment over time.

The extent of the LNAPL plume located north of Building C-50 has not been verified with additional wells. The LNAPL boundary depicted is based on the SCAPS Investigation. LNAPL is generally observed at monitoring well 16MW-20, but the thickness has remained less than 0.20 foot since 2001.

The soil contamination associated with the former gas station site was from previously removed USTs. There is no free-phase oil present in the former gas station area. Two bioventing wells (16MW-22 and 16MW-23) are situated in this area to aid in remediating the vadose zone soils.

4.0 BIOSLURPER SYSTEM OPERATION

The bioslurper systems are designed to de-water the smear zone and remove LNAPL through drainage, volatilization, and biodegradation. The high vacuum of the bioslurper system extracts LNAPL from the pore spaces where it was formerly held by capillary tension. Typically, a vacuum pressure of 2 to 5 inches of mercury (Hg) is applied to each well. The velocity in the drop tube must be sufficient to lift water as an entrained fluid.

Extraction wells 16MW-04, 16MW-13, 16MW-14, 16MW-15, 16MW-16, 16MW-19, 16MW-20, 16MW-25, and 16MW-27 were utilized for LNAPL recovery during the reporting period. The use of extraction wells was varied as LNAPL thicknesses changed. The extraction wells were operated with the one-inch diameter drop tube set immediately above the LNAPL level in the well.

Unit No. 2, located north of Building C-50, was not operated during the reporting period. Bioslurper Unit No. 2 was deactivated on 17 November 2004 due to a high pressure condition. Additionally, ECOR was advised by EFANE on 28 October 2004 that approval had been obtained from the New Jersey Department of Environmental Protection (NJDEP) to deactivate Bioslurper Unit No. 2. However, the extraction wells formerly associated with Bioslurper Unit No. 2 were utilized by the Bioslurper Unit No. 1 system.

5.0 SYSTEM OPERATIONS SUMMARY

The bioslurper units consist of two self-contained 8 ft. by 40 ft. by 8 ft. high refurbished cargo boxes that house the bioslurper pumps, process equipment, and groundwater treatment units. The turnkey units are connected to the recovery wells via underground piping. Bioslurper Unit No. 1 is equipped with a vapor-phase knock out tank and vapor-phase activated carbon drums to treat the air discharge to comply with the NJDEP Air Discharge Permit. Unit No. 1 requires air treatment because of the suspected gasoline component of the LNAPL plume in the area around Building C-16. The air discharge from Bioslurper Unit No. 2 does not require treatment prior to discharge because of the lower concentrations of volatile organics.

This section discusses the monthly operation of the units during this reporting period and any problems that were encountered. **Table 1** summarizes LNAPL recovery, **Table 2** presents groundwater recovery data, **Table 3** calculates total petroleum hydrocarbon (TPH) recovery, and **Table 4** summarizes system water sample data. **Appendix A** contains graphs depicting the operational times and groundwater and LNAPL extracted on a monthly basis. **Appendix B** depicts groundwater and product elevations in the extraction wells. **Appendix C** summarizes air data, and **Appendix D** presents system water data.

5.1 September 2005

Bioslurper Unit No. 1 was operated normally during September 2005 after a carbon and clay media replacement was completed (system reactivation on 14 September 2005). During September 2005, Bioslurper Unit No. 1 was operated for 104 hours, recovering 17 gallons of product and 6,680 gallons of groundwater. System water and vapor samples were collected on 21 September 2005. Analytical results indicate that no permitted limits were exceeded.

Bioslurper Unit No. 2 was deactivated during September 2005. Reactivation is not planned.

Liquid level data was obtained from extraction wells associated with Bioslurper Units No. 1 and No. 2 on a weekly basis during September 2004. Extraction well use was varied based upon the LNAPL thicknesses measured each week.

5.2 October 2005

Bioslurper Unit No. 1 was operated normally during October 2005. On 5 October 2005, a routine oil/water separator cleaning was completed and waste was transported off-site for disposal by LORCO Petroleum of Elizabeth, New Jersey. During October 2005, Bioslurper Unit No. 1 was operated for 112 hours, recovering 2 gallons of product and 13,615 gallons of groundwater. System water and vapor samples were collected on 12 October 2005. Analytical results indicate that no permitted limits were exceeded.

Bioslurper Unit No. 2 was deactivated during October 2005. Reactivation is not planned.

Liquid level data was obtained from extraction wells associated with Bioslurper Units No. 1 and No. 2 on a weekly basis during October 2005. Extraction well use was varied based upon the LNAPL thicknesses measured each week.

5.3 November 2005

Bioslurper Unit No. 1 was operated normally during November 2005. During November 2005, Bioslurper Unit No. 1 was operated for 135 hours, recovering 0.5 gallons of product and 29,254 gallons of groundwater. System water and vapor samples were collected on 9 November 2005. Analytical results indicate that no permitted limits were exceeded.

Bioslurper Unit No. 2 was deactivated during November 2005. Reactivation is not planned.

Liquid level data was obtained from extraction wells associated with Bioslurper Units No. 1 and No. 2 on a weekly basis during November 2005. Extraction well use was varied based upon the LNAPL thicknesses measured each week.

5.4 Evaluation of Site Conditions

Groundwater level and LNAPL thickness measurements are obtained periodically to establish product thickness isocontours. **Appendix B** contains graphs and tables depicting the depth to product and depth to water in individual extraction wells. As demonstrated by Figures 5-1 through 5-3, LNAPL thicknesses are the greatest in the area south of former Building C-16. The greatest LNAPL thickness observed at a recovery well during the reporting period was 1.20 foot (21 September and 5 October 2005) at extraction well 16MW-13. The system appears to be effectively recovering the LNAPL that is present in the extraction well network as supported by the decreasing LNAPL thicknesses.

During October 2005, ECOR completed an upgrade to the treatment system. The upgrade included replacement of the four 200-pound clay vessels and two 200-pound carbon vessels with two 500-pound clay vessels and two 500-pound carbon vessels. The larger vessels are also rated for higher flows and operating pressures. The upgraded vessels provide additional treatment capacity and will decrease the frequency of media replacement. The two 200-pound off-gas

vapor-phase treatment carbon vessels were replaced with two 500-pound units to decrease the frequency between carbon replacement.

Between 16 and 18 November 2005, five additional recovery wells were installed and developed (16MW-31 through 16MW-35). The approximate location of the new recover wells are depicted on **Figure 5-4**. Locations will be surveyed after installation of the recovery well vaults. Further information on the recovery well installation is presented in **Section 7.0**.

5.5 LNAPL Recovery Data

LNAPL recovery is presented in **Table 1. Appendix A** depicts the volume of LNAPL and groundwater extracted and the operational hours for each Bioslurper. During the reporting period, 8 gallons LNAPL was recovered. LNAPL recovery is relatively low, but the system appears to be effectively removing LNAPL from the recovery wells. During normally operation of Bioslurper Unit No. 1, observed LNAPL thickness have decreased. The volume of LNAPL recovered is anticipated to remain relatively low, but operation of Bioslurper Unit No. 1 results in decreased thicknesses of LNAPL observed in the recovery wells.

6.0 HYDROCARBON RECOVERY AND PERMIT COMPLIANCE

6.1 Vapor-phase Recovery and Permit Compliance

Vapor samples are collected on a monthly basis from both Bioslurper Units to evaluate hydrocarbon recovery and ensure discharges are in compliance with the New Jersey Department of Environmental Protection (NJDEP) air discharge permit. The vapor discharge is sampled for total VOCs (including benzene) and TPH. **Appendix C** summarizes the analytical results of the vapor samples and the permit limits and presents calculations for vapor-phase TPH recovery. **Appendix C** also contains the laboratory analytical results of the air samples. As indicated by the analytical results, Bioslurper Unit No. 1 was operating within the permit requirements established for air discharge during operation.

During the reporting period, 198.95 pounds of vapor-phase TPH were recovered at Bioslurper Unit No. 1. Bioslurper Unit No. 2 is deactivated.

6.2 Dissolved-phase Recovery and Permit Compliance

The effluent from Bioslurper Unit No.1 is processed through one bag filter (equipped with a 25-micron filter), two bentonite clay vessels (operating in series), and two liquid-phase granular activated carbon vessels (operating in series). The bag filter removes particulates (mainly precipitated iron), the clay units remove the higher molecular weight VOCs and TPH, and the activated carbon removes the remaining VOC and TPH compounds.

The groundwater influent, midfluent (between carbon vessels), and effluent from the Bioslurper Unit is sampled on a monthly basis to ensure the discharges are in compliance with the requirements set forth by the NWS Earle Sewer Treatment Plant (< 10 parts per million [ppm] TPH).

Table 4 summarizes the TPH results of the effluent samples. **Appendix D** contains dissolved-phase hydrocarbon recovery calculations and the laboratory analytical results of the system water samples.

During the reporting period, 10 pounds of dissolved-phase were recovered via groundwater extraction at Bioslurper Unit No. 1.

7.0 RECOVERY WELL INSTALLATION

Five additional recovery wells were installed on 16-18 November 2005. The non-surveyed locations of these recovery wells are depicted on **Figure 5-4**. Recovery well installation was completed in accordance with the Bioslurper Upgrade Work Plan (ECOR, 20 May 2005). Well logs are presented in **Appendix E**. Eight soil samples were collected for laboratory analysis during recovery well installation. The results are summarized on **Table 5** and the laboratory analytical data is presented in **Appendix F**.

No analytes were detected above the current NJDEP Impact to Groundwater Soil Cleanup Criteria (SCC). Three analytes (1,2-dichlorethane, benzene, and naphthalene) were detected above the appropriate Draft NJDEP Impact to Groundwater SCC. Both standards are shown on **Table 5**. Naphthalene was observed at concentrations significantly higher than 1,2-dichlorethane and benzene. The highest concentrations of naphthalene were detected in soil samples at monitoring wells 16MW-32, 16MW-33, 16MW-34, and 16MW-35. LNAPL has been detected in all of those locations except 16MW-34. The presence of naphthalene is consistent with the weathered LNAPL observed at the Site.

Liquid levels were obtained at the new recovery well locations on a weekly basis upon well completion. The data obtained on 30 November 2005 indicated that no LNAPL was present in additional recovery wells 16MW-31 or 16MW-34, but LNAPL was detected at 16MW-32 (0.01 foot), 16MW-33 (4.05 feet), and 16MW-35 (1.50 foot).

Based upon the liquid level data, it appears that there is recoverable LNAPL present in the area formerly located under the southeast corner of former Building C-16. The extent of the LNAPL plume along the western side of the railroad tracks appears to be defined the additional well 16MW-31. Minimal LNAPL thickness has been detected at additional well 16MW-32 (0.01 foot), and it is reasonable to assume that 16MW-32 defines the extent of LNAPL in this direction.

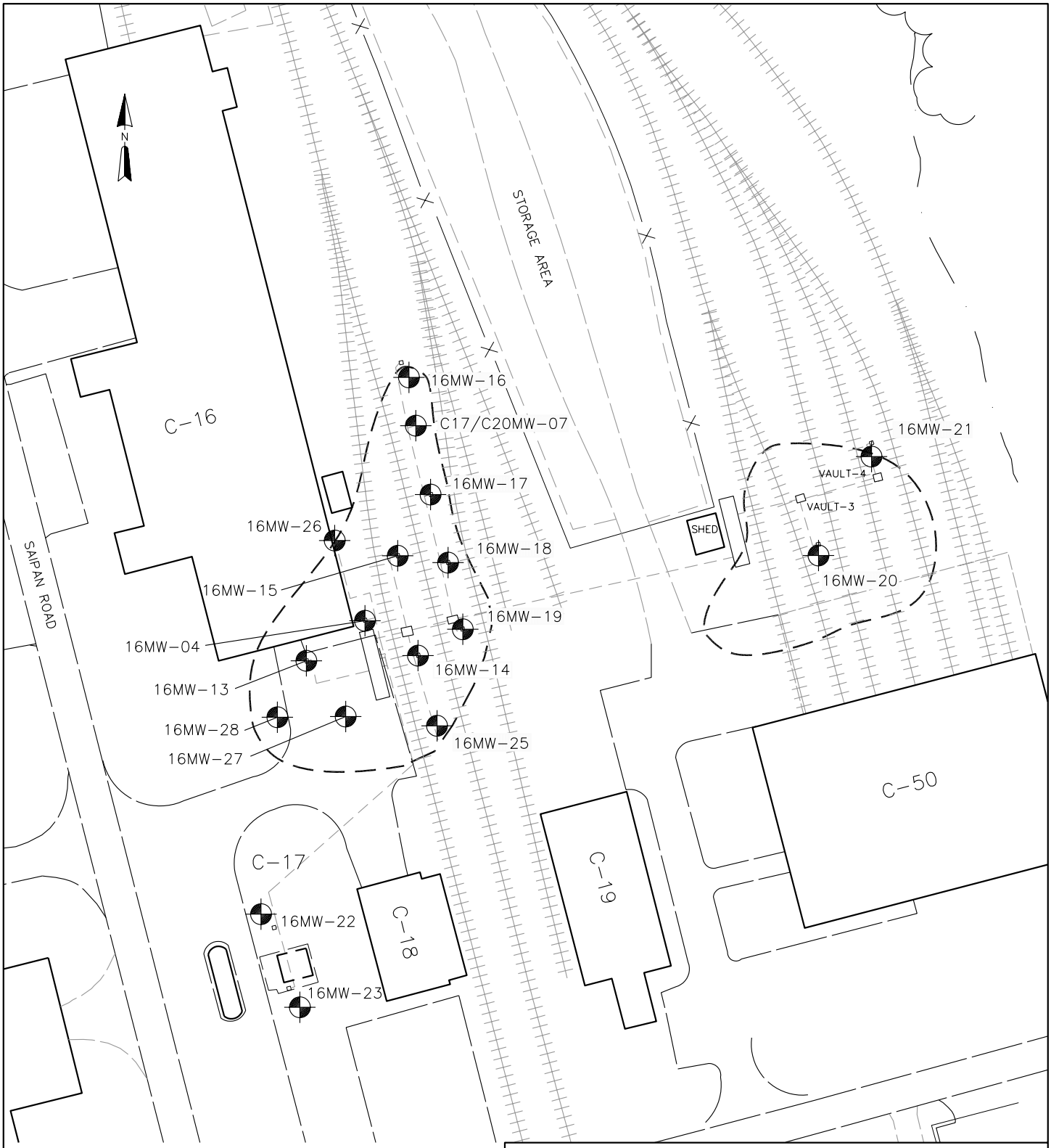
The LNAPL thickness present at 16MW-33 (approximately 30 feet from 16MW-04) appears to indicate that the radius-of-influence of the bioslurper system extends less than 30 feet in this area. The pilot test conducted by Foster Wheeler (now Tetra tech EC) in 1996 reportedly stated that a pressure radius-of-influence of up to 40 feet could be achieved (Foster Wheeler 1997). The LNAPL thickness present at additional well 16MW-35 indicates that the southern boundary of the LNAPL plume may not be delineated.

ECOR is contracted to connect the five additional recovery wells to the existing Bioslurper system. This work is anticipated to be initiated during the first quarter 2006.

8.0 CONCLUSIONS

LNAPL thickness generally increased in the extraction wells while the systems were not operating during December 2004, January 2005, and February 2005. Since reactivation in February 2005, increased (though relatively low) LNAPL recovery has been observed. However, observed LNAPL thicknesses in the recovery wells have decreased significantly since full-scale operation was re-initiated in February 2005. The data obtained during the non-operational time and since reactivation of Bioslurper Unit No. 1 indicate that recoverable LNAPL remains. The additional recovery wells installed are necessary to recover LNAPL at the site. Two of the new recovery wells have indicated LNAPL thicknesses greater than one foot. The connection of these wells to the recovery system will enhance LNAPL recovery from the subsurface. Trenching activities are planned for the first quarter 2006 to complete connection of the new recovery wells.

FIGURES



LEGEND

MONITORING WELL LOCATION

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

SITE MAP

U.S. NAVY
NWS- EARLE
COLTS NECK, NJ

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SCALE IN FEET	DATE	FIGURE
0 — 80	12-09-05	2-1

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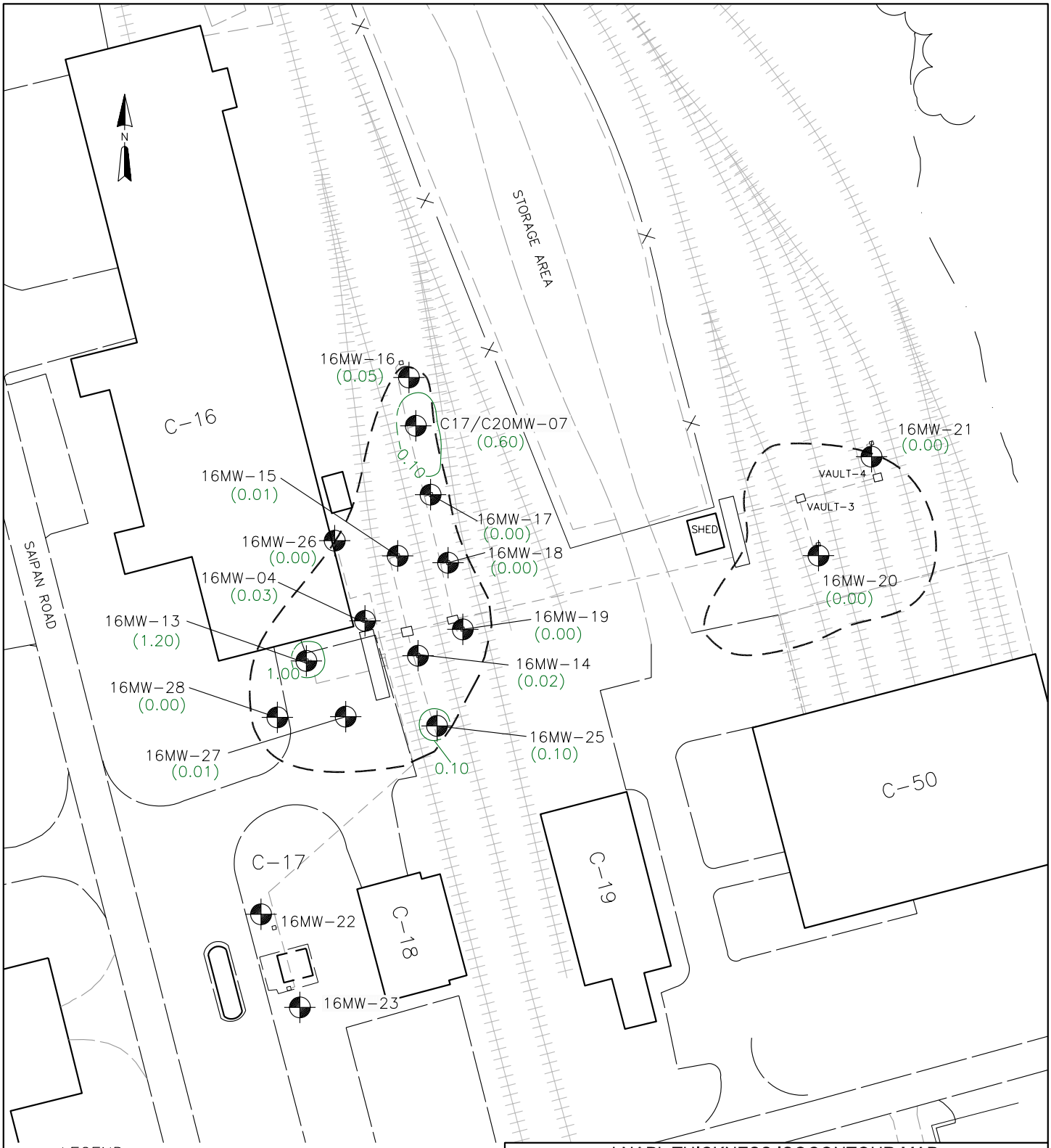

LEGEND

16MW-16 — MONITORING WELL LOCATION

(1.20) — LNAPL THICKNESS (ft)

LNAPL THICKNESS ISOCONTOUR (ft)

INFERRED ISOCONTOUR (ft)

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

LNAPL THICKNESS ISOCONTOUR MAP
21 SEPTEMBER 2005

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NWS- EARLE
COLTS NECK, NJ

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SCALE IN FEET	DATE	FIGURE
0 — 80	12-09-05	5-1

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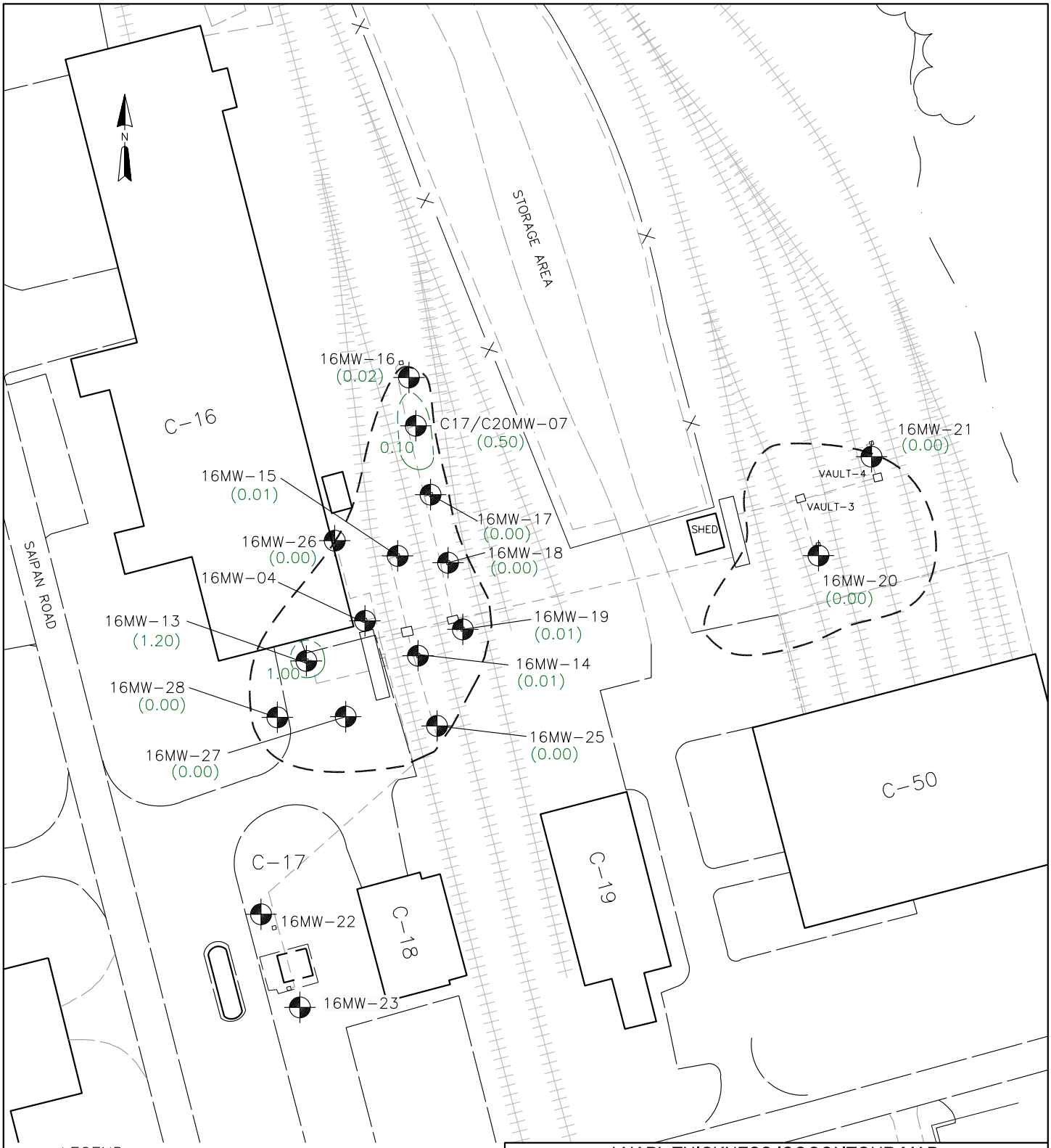

LEGEND

16MW-16 — MONITORING WELL LOCATION

(1.20) — LNAPL THICKNESS (ft)

LNAPL THICKNESS ISOCONTOUR (ft)

INFERRED ISOCONTOUR (ft)

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

LNAPL THICKNESS ISOCONTOUR MAP
5 OCTOBER 2005

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SCALE IN FEET	DATE	FIGURE
0 — 80	12-09-05	5-2

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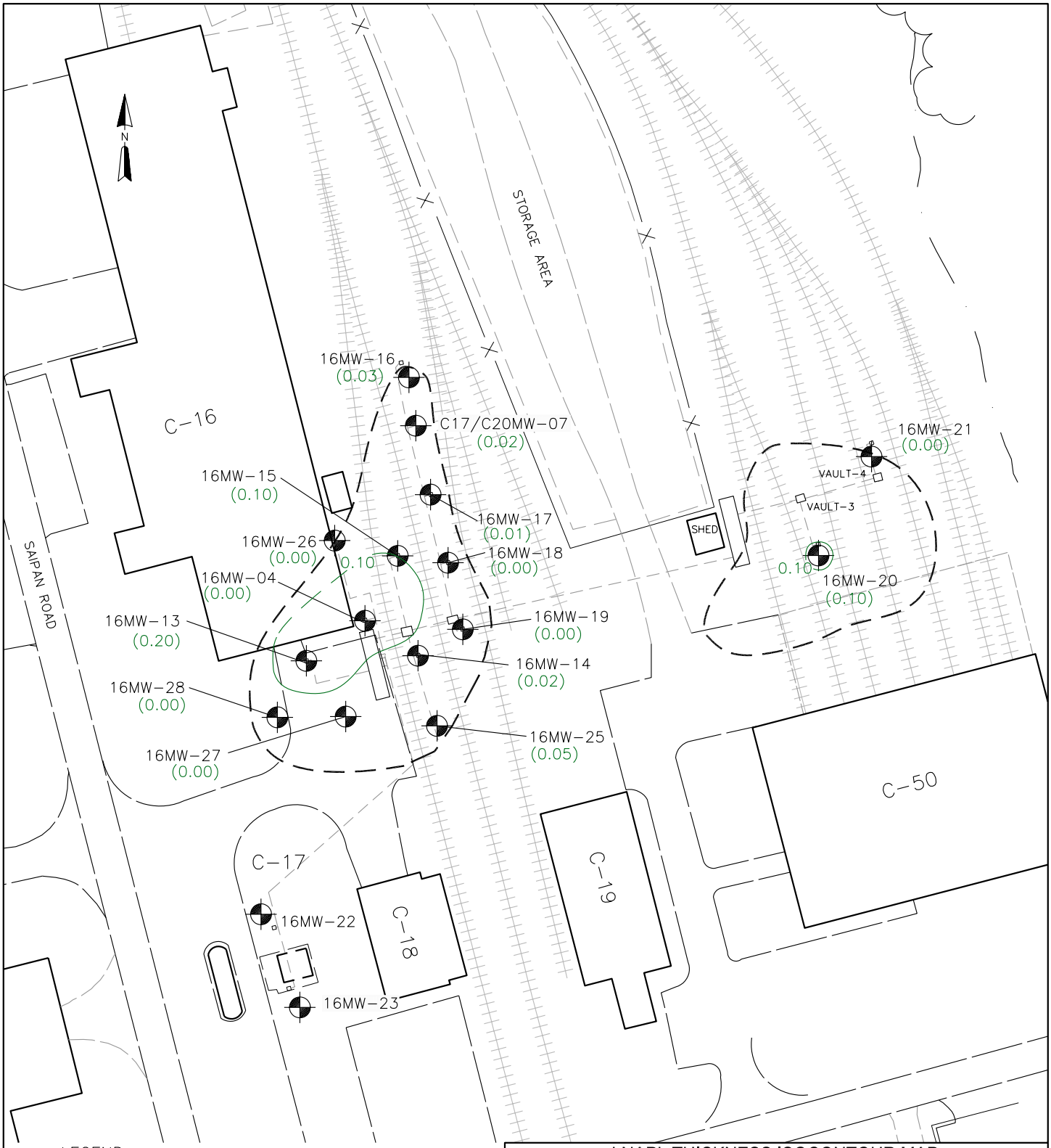

LEGEND

16MW-16 — MONITORING WELL LOCATION

(0.20) — LNAPL THICKNESS (ft)

LNAPL THICKNESS ISOCONTOUR (ft)

INFERRED ISOCONTOUR (ft)

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

LNAPL THICKNESS ISOCONTOUR MAP
9 NOVEMBER 2005

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SCALE IN FEET	DATE	FIGURE
0 — 80	12-09-05	5-3

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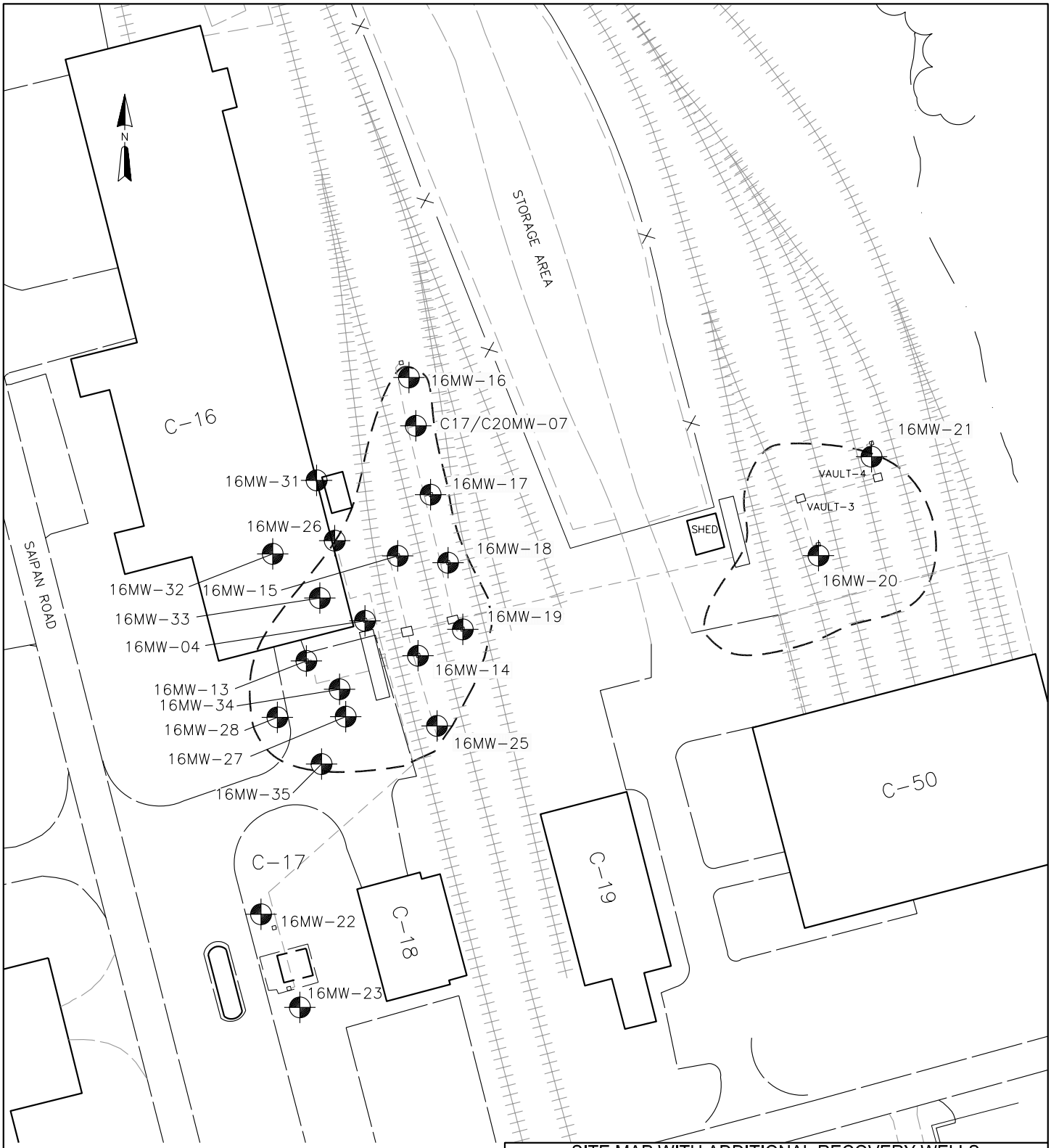

LEGEND

MONITORING WELL LOCATION

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

SITE MAP WITH ADDITIONAL RECOVERY WELLS (ESTIMATED LOCATIONS)

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SCALE IN FEET	DATE	FIGURE
0 — 80	12-09-05	5-4

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TABLES

TABLE 1
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS
LNAPL EXTRACTION TO DATE

	1998 LNAPL Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1		400	375	275	300	ND	ND	225	250	250	140	225	2440.0
Bioslurper System #2		25	50	50	20	ND	ND	55	30	40	20	30	320.0
Total		425	425	325	320			280	280	290	160	255	2760.0
	1999 LNAPL Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	220	50	125	65	ND	ND	ND	34	ND	ND	66	ND	560.0
Bioslurper System #2	20	15	15	10	ND	ND	ND	14	ND	ND	14	ND	88.0
Total	240	65	140	75				48			80		648.0
	2000 LNAPL Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	30	60	78	57	10	15	32	43	57	55	33	32	502.0
Bioslurper System #2	ND	ND	ND	ND	ND	24	1	5	4	0	ND	0	34.0
Total	30	60	78	57	10	39	33	48	61	55	33	32	536.0
	2001 LNAPL Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	31	45	35	ND	ND	ND	14	48	30	15	30	10	258.0
Bioslurper System #2	ND	4.5	4.5	ND	ND	ND			2	4	0.5	0	15.5
Total	31	49.5	39.5	0	0	0	14	48	32	19	30.5	10	273.5
	2002 LNAPL Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	52	21	11	16	34	62	53	87	16	10	17	7	386.0
Bioslurper System #2	6	0.5	0.5	5	2	6	2	5	0	0	4	9	40.0
Total	58	21.5	11.5	21	36	68	55	92	16	10	21	16	426.0
	2003 LNAPL Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	50.8	5.2	7.85	3.6	22.5	25.7	10	8.9	8.9	16.76	0	ND	160.2
Bioslurper System #2	0.5	0.5	2.75	0	2.62	0	4	5.7	4.19	5.24	0	0	25.5
Total	51.3	5.7	10.6	3.6	25.12	25.7	14	14.6	13.09	22	0	0	185.7
	2004 LNAPL Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	0	13.6	10	9.5	5.5	0	0	0	0	0	0	0	38.6
Bioslurper System #2	0	4.19	4.2	2	1	0	0	0	0	0	0	0	11.4
Total	0	17.79	14.2	11.5	6.5	0	0	0	0	0	0	0	50.0
	2005 LNAPL Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	0	0	6.5	6.5	10.5	4	2	2	17	2	0.5		51.0
Bioslurper System #2	0	0	0	0	0	0	0	0	0	0	0		0.0
Total	0	0	6.5	6.5	10.5	4	2	2	17	2	0.5		51.0

ND - no data due to system not in operation

Total LNAPL extracted to date (g): 4930.2

Source: Tetra Tech Foster Wheeler, Inc. (data prior to March 2004)

TABLE 2
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS
GROUNDWATER EXTRACTION TO DATE

	1998 Groundwater Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	**Total**
Bioslurper System #1		2,675	26,169	23,898	12,799	0	0	16,498	34,612	29,974	20,503	40,611	207,739
Bioslurper System #2		5,282	20,586	22,607	6,584	0	0	13,537	14,451	27,850	16,196	9,141	136,234
Total		7,957	46,755	46,505	19,383	0	0	30,035	49,063	57,824	36,699	49,752	343,973
	1999 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	**Total**
Bioslurper System #1	35,078	6,536	49,834	40,889	0	0	0	7,321	0	0	0	0	139,658
Bioslurper System #2	8,843	536	12,956		0	0	0		0	0	0	0	22,335
Total	43,921	7,072	62,790	40,889	0	0	0	7,321	0	0	0	0	161,993
	2000 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	**Total**
Bioslurper System #1	3,393	4,618	9,842	10,945	2,764	14,112	19,758	23,298	36,900	31,669	27,785	30,231	215,315
Bioslurper System #2	0	0	0	0	0	2,976	5,549	17,704	21,156	21,588	0	20,848	89,821
Total	3,393	4,618	9,842	10,945	2,764	17,088	25,307	41,002	58,056	53,257	27,785	51,079	305,136
	2001 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	**Total**
Bioslurper System #1	25,897	30,981	33,832	0	0	0	2,812	12,136	7,669	1,665	4,635	3,080	122,707
Bioslurper System #2	0	15,852	19,914	0	0	0	0	0	2,967	6,814	1,277	345	47,169
Total	25,897	46,833	53,746	0	0	0	2,812	12,136	10,636	8,479	5,912	3,425	169,876
	2002 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	**Total**
Bioslurper System #1	13,137	9,292	16,151	12,749	24,926	19,641	24,875	31,129	10,390	19,562	4,854	7,694	194,400
Bioslurper System #2	1,095	1,224	5,726	7,639	7,727	6,464	5,362	5,977	289	0	4,771	4,772	51,046
Total	14,232	10,516	21,877	20,388	32,653	26,105	30,237	37,106	10,679	19,562	9,625	12,466	245,446
	2003 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	**Total**
Bioslurper System #1	22,799	28,656	14,682	18,084	20,199	28,439	15,990	25,071	13,448	13,615	1,984	0	202,967
Bioslurper System #2	10,546	1,614	6,325	14,649	4,303	6,546	4,930	4,938	2,924	1,190	1,103	480	59,548
Total	33,345	30,270	21,007	32,733	24,502	34,985	20,920	30,009	16,372	14,805	3,087	480	262,515
	2004 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	**Total**
Bioslurper System #1	3,648	5,235	20,986	9,573	30,020	31,821	38,634	44,162	0	0	0	0	184,079
Bioslurper System #2	3,954	5,692	7,370	35,264	33,154	34,911	20,298	23,613	26,708	36,885	19,126	0	246,975
Total	7,602	10,927	28,356	44,837	63,174	66,732	58,932	67,775	26,708	36,885	19,126	0	431,054
	2005 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	**Total**
Bioslurper System #1	0	1,902	34,308	91,540	59,848	54,040	28,174	11,505	29,254	6,680	13,615		330,866
Bioslurper System #2	0	0	0	0	0	0	0	0	0	0	0		0
Total	0	1,902	34,308	91,540	59,848	54,040	28,174	11,505	29,254	6,680	13,615		330,866

Total Groundwater Extracted to Date = 2,250,859

Source: Tetra Tech Foster Wheeler, Inc. (data prior to March 2004)

TABLE 3
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS
TOTAL PETROLEUM HYDROCARBON (TPH)
REMOVED VIA GROUNDWATER TREATMENT

	1998 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1		60.75	125.14	306.42	135.56	0.00	0.00	47.30	ND	175.99	179.16	192.96	1223.28
Bioslurper System #2		4.25	14.17	32.40	9.61	0.00	0.00	ND	13.99	2.37	4.26	11.48	92.53
Total		65.00	139.31	338.82	145.17	0.00	0.00	47.30	13.99	178.36	183.42	204.44	1315.81
	1999 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	60.48	56.18	394.28	285.29	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	796.52
Bioslurper System #2	3.84	0.21	29.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	48.56
Total	64.32	56.39	423.58	300.49	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	845.08
	2000 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	8.58	0.00	17.20	30.99	0.00	31.80	18.14	0.00	95.47	160.86	92.04	327.49	782.56
Bioslurper System #2	0.01	0.00	0.00	0.00	0.00	0.11	0.40	0.00	2.63	37.55	0.00	21.71	62.40
Total	8.59	0.00	17.20	30.99	0.00	31.91	18.53	0.00	98.10	198.40	92.04	349.20	844.96
	2001 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	34.31	45.04	50.54	0.00	0.00	0.00	0.07	52.80	2.61	2.25	2.97	10.82	201.42
Bioslurper System #2	ND	8.59	59.43	0.00	0.00	0.00	0.00	0.00	1.12	3.73	0.13	0.01	73.01
Total	34.31	53.63	109.97	0.00	0.00	0.00	0.07	52.80	3.73	5.98	3.10	10.83	274.42
	2002 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	40.35	21.35	13.51	35.86	21.58	7.60	581.16	73.62	68.41	19.99	2.27	22.60	908.30
Bioslurper System #2	2.40	0.18	4.68	0.75	5.08	1.60	2.77	1.13	0.02	ND	1.43	3.54	23.58
Total	42.75	21.53	18.19	36.61	26.66	9.20	583.93	74.75	68.43	19.99	3.70	26.14	931.88
	2003 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	95.99	135.13	53.06	25.56	39.69	38.69	76.87	0.26	17.06	14.66	0.00	0.00	496.97
Bioslurper System #2	ND	0.28	0.64	4.84	0.38	0.91	0.22	0.09	0.16	0.27	0.03	0.07	7.89
Total	95.99	135.41	53.70	30.40	40.07	39.60	77.09	0.35	17.22	14.93	0.03	0.07	504.86
	2004 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	5.36	25.17	17.27	11.74	80.17	45.15	65.78	62.29	0.00	0.00	0.00	0.00	312.93
Bioslurper System #2	0.12	0.19	0.49	4.44	1.88	5.19	3.42	6.74	0.71	40.42	12.28	0.00	75.88
Total	5.48	25.36	17.76	16.18	82.05	50.34	69.20	69.03	0.71	40.42	12.28	0.00	388.81
	2005 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	0.00	0.91	26.14	86.94	32.92	11.23	11.05	4.66	0.50	0.77	8.77		183.89
Bioslurper System #2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
Total	0.00	0.91	26.14	86.94	32.92	11.23	11.05	4.66	0.50	0.77	8.77		183.89

Pounds of TPH Removed via Groundwater Treatment to Date = 5289.72

Pounds of TPH: Influent - effluent concentration (mg/l) x 3.785 l/gal x 0.001 g/mg x 0.002205 lb/g x monthly effluent (gal) = lbs TPH

Source: Tetra Tech Foster Wheeler, Inc. (data prior to March 2004)

TABLE 4
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS NO. 1 AND NO. 2
GROUNDATER SYSTEM TOTAL PETROLEUM HYDROCARBON (TPH)
CONCENTRATIONS (mg/l)

Effluent Sample	Unit No. 1		Unit No. 2	
Date	Before Clay/Carbon	After Clay/Carbon	Before Clay/Carbon	After Clay/Carbon
02/29/00	<0.5	<0.5	NA	NA
04/04/00	210	0.57	NA	NA
04/28/00	16(A)EW00W5	16(A)EW00W6		
	340	0.68	NA	NA
06/19/00	270	<1.0	4.4	<1.0
07/21/00	16(A)EW00W10	16(A)EW00W09	16(B)EW00W05	16(B)EW00W06
	110	<1.0	8.7	<1.0
09/07/00	16(A)EW11	16(A)EW12	16(B)EW07	16(B)EW08
	310	5.1	18	3.1
10/30/00	16(A)EW13	16(A)EW14	16(B)EW09	16(B)EW10
	610	1.4	210	1.6
11/30/00	16(A)EW15	16(A)EW16	16(B)EW11	16(B)EW12
	400	3.1	220	2
12/28/00	16(A)EW17	16(A)EW18	16(B)EW13	16(B)EW14
	1300	2.4	130 l	2.6
01/29/01	16(A)EW19	16(A)EW20	16(B)EW15	16(B)EW16
	210	1.6	75	1.6
02/27/01	16(A)EW21	16(A)EW22	16(B)EW17	16(B)EW18
	160	1.2	67	2.1
03/30/01	16(A)EW23	16(A)EW24	16(B)EW19	16(B)EW20
	180	1	360	2.4
07/31/01	16(A)EW24	16(A)EW25	NA	NA
	3.1	0.018	NA	NA
08/29/01	16(A)EW27	16(A)EW28	NA	NA
	187	<0.068	NA	NA
09/30/01	16(A)EW27	16(A)EW28	16(B)EW19	16(B)EW20
	40.8	<0.068	45.3	<0.067
10/31/01	16(A)EW31	16(A)EW32	16(B)EW01	16(B)EW02
	50	<0.07	65.7	<0.066
11/30/01	16(A)EW33	16(A)EW34	16(B)EW05	16(B)EW06
	76.9	0.18	12	<.20
01/09/02	16(A)EW35	16(A)EW36	16(B)EW07	16(B)EW08
	421	<0.066	2.3	<0.066
01/31/02	16(A)EW31	16(A)EW32	16(B)EW01	16(B)EW02
	368	<0.066	22.1	<0.066
02/27/02	16(A)EW39	16(A)EW40	16(B)EW11	16(B)EW12
	276	0.7	17.6	
02/28/02	16(A)EW41	16(A)EW42	16(B)EW13	16(B)EW14
	101	0.81	98.1	0.19
03/29/02	16(A)EW41	16(A)EW42	16(B)EW13	16(B)EW14
	101	0.81	98.1	0.24
04/23/02	16(A)EW43	16(A)EW44	16(B)EW15	0.24
	338	0.96	12	0.19

TABLE 4
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS NO. 1 AND NO. 2
GROUNDATER SYSTEM TOTAL PETROLEUM HYDROCARBON (TPH)
CONCENTRATIONS (mg/l)

Effluent Sample	Unit No. 1		Unit No. 2	
Date	Before Clay/Carbon	After Clay/Carbon	Before Clay/Carbon	After Clay/Carbon
05/29/02	16(A)EW45	16(A)EW46	16(B)EW17	16(B)EW18
	104	0.28	78.9	0.076
06/28/02	16(A)EW47	16(A)EW48	16(B)EW19	16(B)EW20
	46.6	0.23	29.7	0.11
07/29/02	16(A)EW49	16(A)EW50	16(B)EW21	16(B)EW22
	2800	0.63	62.5	0.54
08/28/02	16(A)EW51	16(A)EW52	16(B)EW23	16(B)EW24
	284	0.61	23.3	0.74
09/30/02	16(A)EW53	16(A)EW54	16(B)EW25	16(B)EW26
	790	1.09	8.8	0.5
10/29/02	16(A)EW55	16(A)EW56	16(B)EW27	16(B)EW28
	124	1.57	97	3.12
11/26/02	16(A)EW57	16(A)EW58	16(B)EW29	16(B)EW30
	56	<0.16	36	<0.17
12/30/02	16(A)EW59	16(A)EW60	16(B)EW31	16(B)EW32
	352	<0.16	89	<0.16
02/03/03	16(A)EW61	16(A)EW62	16(B)EW31	16(B)EW32
	506	1.52	NA	NA
02/26/03	16(A)EW63	16(A)EW64	16(B)EW33	16(B)EW34
	565	<0.17	20.9	<0.16
03/31/03	16(A)EW67	16(A)EW68	16(B)EW33	16(B)EW34
	433	<0.18	12.2	<0.16
04/29/03	16(A)EW69	16(A)EW70	16(B)EW35	16(B)EW36
	176	<0.16	39.6	<0.16
05/23/03	16(A)EW71	16(A)EW72	16(B)EW37	16(B)EW38
	235.61	0.17	10.56	0.03
06/30/03	16(A)EW73	16(A)EW74	16(B)EW39	16(B)EW40
	163	<0.16	16.7	<0.16
07/29/03	16(A)EW77	16(A)EW78	16(B)EW43	16(B)EW44
	576	<0.18	5.25	<0.17
08/27/03	16(A)EW77	16(A)EW78	16(B)EW43	16(B)EW44
	1.4	<0.17	2.2	<0.17
09/30/03	16(A)EW79	16(A)EW80	16(B)EW45	16(B)EW46
	152	<0.18	6.42	<0.17
10/22/03 (1)	16(A)EW81	16(A)EW82	16(B)EW47	16(B)EW48
	129	<0.17	27.5	<0.17
12/8/03 (2)	no sample	no sample	16(B)EW49	16(B)EW50
			3.05	<0.17
12/30/03	16(A)EW83	16(A)EW84	16(B)EW51	16(B)EW52
	71.7	<0.17	18.7	<0.16
01/30/04	16(A)EW85	16(A)EW86	16(B)EW53	16(B)EW54
	176	<0.16	3.58	<0.16
02/27/04	16(A)EW87	16(A)EW88	16(B)EW55	16(B)EW56
	576	<0.16	4.45	<0.16

TABLE 4
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS NO. 1 AND NO. 2
GROUNDATER SYSTEM TOTAL PETROLEUM HYDROCARBON (TPH)
CONCENTRATIONS (mg/l)

Effluent Sample	Unit No. 1		Unit No. 2	
Date	Before Clay/Carbon	After Clay/Carbon	Before Clay/Carbon	After Clay/Carbon
03/30/04	16(A)EW89	16(A)EW90	16(B)EW57	16(B)EW58
	98.6	<0.17	7.92	0.19
04/21/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	147	<1.0	15.1	<1.0
05/26/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	320	17	6.8	<1.0
06/16/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	170	<1.0	17.8	<1.0
07/27/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	204	<1.0	20.2	<1.0
08/18/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	317	148	34.2	<1.0
10/12/2004 (3)	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Operating	Not Operating	3.2	ND
10/26/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Operating	Not Operating	143	11.7
11/10/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Operating	Not Operating	76.9	ND
Dec 2004	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Operating	Not Operating	Deactivated	Deactivated
Jan 2005	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Operating	Not Operating	Deactivated	Deactivated
02/17/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	57.3	ND	Deactivated	Deactivated
03/02/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	91.3	ND	Deactivated	Deactivated
04/13/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	118	4.2	Deactivated	Deactivated
05/18/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	95.3	29.4	Deactivated	Deactivated
05/31/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Sampled	ND	Deactivated	Deactivated
06/17/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	24.9	ND	Deactivated	Deactivated
7/18/05 (4)	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	47.0	ND	Deactivated	Deactivated
8/10/2005 (4)	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	19.8	ND	Deactivated	Deactivated
09/21/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	9.0	ND	Deactivated	Deactivated
10/12/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	6.8	ND	Deactivated	Deactivated

TABLE 4
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS NO. 1 AND NO. 2
GROUNDATER SYSTEM TOTAL PETROLEUM HYDROCARBON (TPH)
CONCENTRATIONS (mg/l)

Effluent Sample	Unit No. 1		Unit No. 2	
Date	Before Clay/Carbon	After Clay/Carbon	Before Clay/Carbon	After Clay/Carbon
11/09/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	35.9	ND	Deactivated	Deactivated

NOTES

All units are in milligrams per liter (mg/L).

The NWS Earle Sewer Treatment Plant Discharge Limit is 10 mg/L.

NA - Not available (no sample collected) ND - Not detected above laboratory detection limit

(1) Unit #1 and #2 were not operating at the time of sample collection (month end) in October 2003

(2) Samples collected 12/8/03 were for November operating period. Unit #1 was not operating at time of sample collection.

(3) System samples were inadvertently not collected during September 2004. Two sampling events were conducted in October 2004. The 12 October 2004 sampling data is presented for September 2004.

(4) Unit #1 influent and midfluent samples appear to have been switched during the July and August 2005 event. The data as presented are corrected.

Source: Tetra Tech Foster Wheeler, Inc. (data prior to March 2004)

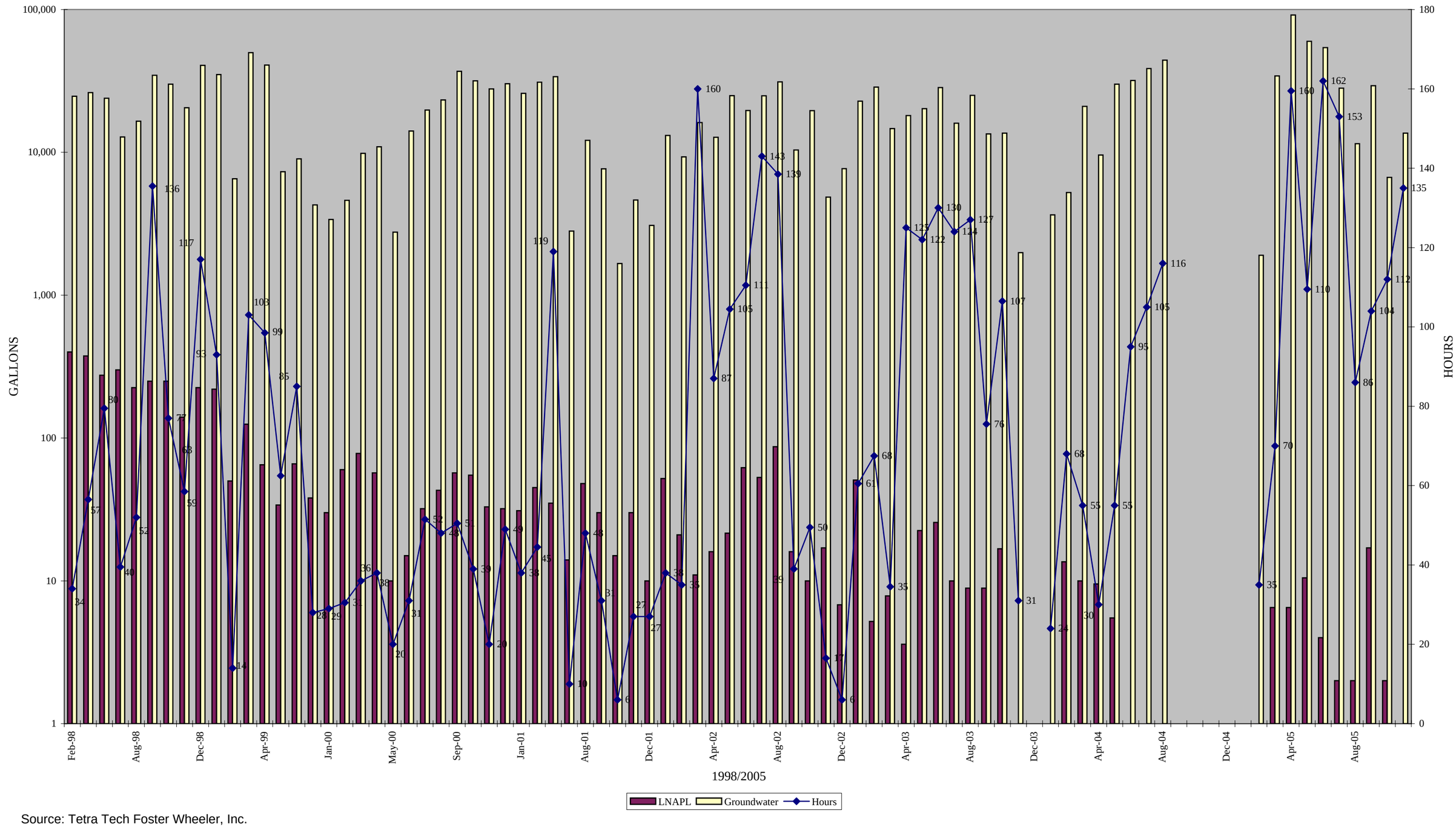
Table 5
Naval Weapon Station Earle
Soil Quality Data
November 2005

Constituent	Current NJDEP Impact to Groundwater Soil Clean Up Criteria	Draft NJDEP Impact to Groundwater Soil Clean Up Criteria	Sample ID	16MW31@8-10'	16MW31@12-15'	16MW32@8-10'	16MW33@6-8'	16MW33@10-12'	16MW-34@6-8'	16MW34@10-12'	16MW35@8-10'
			Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
			Date	11/16/2005	11/16/2005	11/16/2005	11/17/2005	11/17/2005	11/17/2005	11/17/2005	11/17/2005
1,2-Dibromoethane	NR	0.000001		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	0.0007		*0.032 J*	ND	ND	ND	ND	ND	ND	ND
Acetone	100	1		0.3 J	0.3 J	ND	ND	ND	ND	ND	ND
Benzene	1	0.0007		ND	ND	ND	ND	ND	ND	*0.61 J*	ND
Cyclohexane	NR	NR		ND	ND	ND	ND	0.6 J	0.22 J	1.5 J	0.87 J
Ethylbenzene	100	8		ND	ND	2.3 J	0.17 J	3.2 J	1.6	7.2	4.0
Isopropylbenzene	NR	NR		ND	ND	1.7 J	0.15 J	1.8 J	1.0	3.2	1.9 J
Methyl Acetate	NR	13		ND	ND	ND	ND	ND	0.27 J	ND	ND
Methyl tert-Butyl Ether	NR	0.1		ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NR	NR		ND	ND	2.9	0.43 J	4.0 J	1.7	8.2	5.1
1, 2, 4 Trichlorobenzene	100	0.4		ND	ND	ND	ND	ND	0.24 J	ND	ND
Toluene	500	7		ND	ND	ND	ND	ND	ND	0.95 J	ND
Xylene (total)	67	12		ND	ND	11	0.8 J	8.3 J	0.38 J	34	6.1 J
Naphthalene	100	15		ND	ND	*38 J*	3.9 J	*41 J*	12 J	*37 J*	*30 J*
Lead (total)	NR	54		2.6	1.9	2.2	2.2	2.2	3.5	2.1	2.3
Total Recoverable Petroleum Hydrocarbons	10,000(1)	10,000(1)		<60	<60	4,200	2,700	4,100	1,600	4,800	8,400

NOTES:
All results are reported in mg/kg.
The analytes summarized above include all compounds for which there was at least one detection and constituents typically associated with gasoline and diesel fuels.
Both the current Soil Clean Up Criteria and the Draft Criteria are shown. The Draft Criteria have not yet been promulgated by NJDEP.
Exceedences of the Current Soil Clean Up Criteria are indicated in **bold**. Exceedences of the Draft Soil Clean Up Criteria are indicated in *italic* .
NR - No Criteria available.
ND - Not Detected
J - Estimated value
(1) Value is the maximum concentration for total organic contaminants.

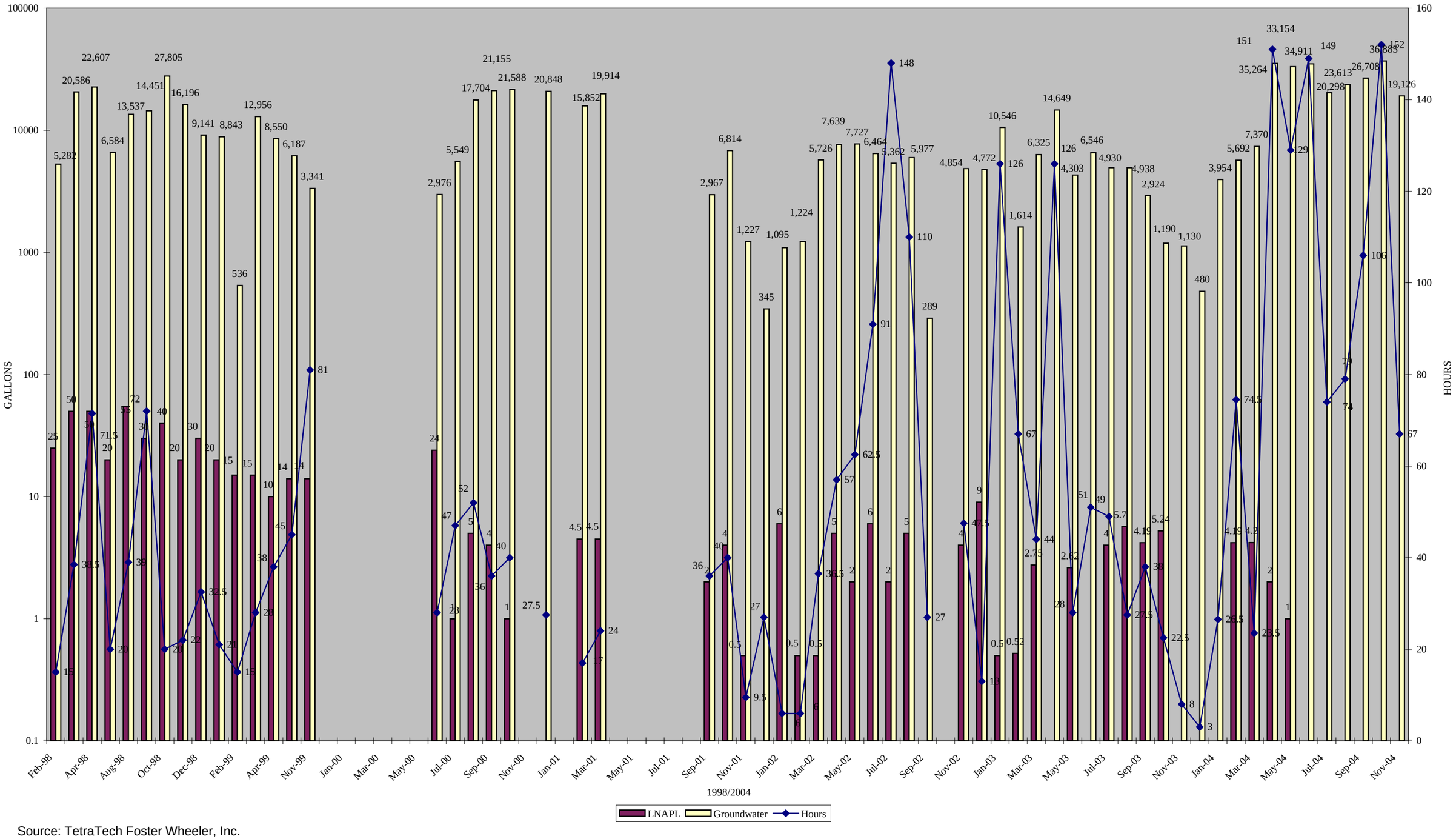
APPENDIX A
GRAPHS OF LNAPL/WATER EXTRACTED TO DATE

BIOSLURPER UNIT 1 LNAPL/WATER RECOVERED VERSUS OPERATIONAL TIME



Source: Tetra Tech Foster Wheeler, Inc.
Data prior to April 2004

BIOSLURPER UNIT 2 LNAPL/WATER RECOVERED VERSUS OPERATIONAL TIME



Source: TetraTech Foster Wheeler, Inc.
Data prior to April 2004

APPENDIX B
GROUNDWATER LEVELS AND LNAPL THICKNESS DATA FROM EXTRACTION WELLS

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-04	8/20/1997	101.23	13.65	87.58	14.23	0.58	88.07
16MW-04	12/12/1997	101.23	11.55	89.68	12.34	0.79	90.35
16MW-04	1/7/1998	101.23	11.85	89.38	12.89	1.04	90.26
16MW-04	1/15/1998	101.23	9.49	91.74	9.87	0.38	92.06
16MW-04	2/10/1998	101.23	10.78	90.45	11.72	0.94	91.25
16MW-04	2/24/1998	101.23	8.78	92.45	9.35	0.57	92.93
16MW-04	3/3/1998	101.23	10.45	90.78	11.45	1.00	91.63
16MW-04	3/12/1998	101.23	9.62	91.61	10.51	0.89	92.36
16MW-04	3/13/1998	101.23	9.15	92.08	9.87	0.72	92.69
16MW-04	3/26/1998	101.23	6.76	94.47	7.60	0.84	95.19
16MW-04	4/3/1998	101.23	8.40	92.83	8.85	0.45	93.21
16MW-04	4/9/1998	101.23	6.90	94.33	6.91	0.01	94.34
16MW-04	4/17/1998	101.23	7.06	94.17	7.10	0.04	94.20
16MW-04	4/24/1998	101.23	0.00	101.23	-	0.00	101.23
16MW-04	5/5/1998	101.23	8.40	92.83	8.89	0.49	93.25
16MW-04	5/15/1998	101.23	8.20	93.03	8.85	0.65	93.59
16MW-04	7/30/1998	101.23	10.15	91.08	10.77	0.62	91.61
16MW-04	8/7/1998	101.23	9.17	92.06	9.44	0.27	92.29
16MW-04	8/13/1998	101.23	8.50	92.73	8.52	0.02	92.75
16MW-04	8/21/1998	101.23	9.20	92.03	9.39	0.19	92.19
16MW-04	9/3/1998	101.23	9.44	91.79	9.67	0.23	91.99
16MW-04	9/10/1998	101.23	9.57	91.66	9.81	0.24	91.86
16MW-04	10/2/1998	101.23	9.65	91.58	9.88	0.23	91.78
16MW-04	10/20/1998	101.23	9.85	91.38	10.11	0.26	91.60
16MW-04	11/6/1998	101.23	9.66	91.57	9.82	0.16	91.71
16MW-04	12/3/1998	101.23	9.93	91.30	10.17	0.24	91.50
16MW-04	12/30/1998	101.23	9.40	91.83	9.48	0.08	91.90
16MW-04	1/26/1999	101.23	8.26	92.97	8.33	0.07	93.03
16MW-04	2/10/1999	101.23	8.92	92.31	9.11	0.19	92.47
16MW-04	3/3/1999	101.23	8.49	92.74	8.55	0.06	92.79
16MW-04	3/9/1999	101.23	8.28	92.95	8.30	0.02	92.97
16MW-04	3/19/1999	101.23	8.40	92.83	8.52	0.12	92.93
16MW-04	4/20/1999	101.23	8.45	92.78	8.59	0.14	92.90
16MW-04	5/7/1999	101.23	8.52	92.71	8.60	0.08	92.78
16MW-04	6/9/1999	101.23	8.99	92.24	-	0.00	92.24
16MW-04	6/9/1999	101.23	9.77	91.46	10.04	0.27	91.69
16MW-04	6/14/1999	101.23	9.52	91.71	9.71	0.19	91.87
16MW-04	6/22/1999	101.23	9.55	91.68	9.74	0.19	91.84
16MW-04	7/29/1999	101.23	10.43	90.80	10.64	0.21	90.97
16MW-04	8/3/1999	101.23	10.51	90.72	10.71	0.20	90.89
16MW-04	8/13/1999	101.23	10.62	90.61	10.82	0.20	90.78
16MW-04	9/3/1999	101.23	9.80	91.43	9.84	0.04	91.46
16MW-04	9/15/1999	101.23	10.34	90.89	10.50	0.16	91.03
16MW-04	10/26/1999	101.23	10.30	90.93	10.66	0.36	91.23
16MW-04	11/2/1999	101.23	10.60	90.63	10.99	0.39	90.96
16MW-04	11/12/1999	101.23	10.05	91.18	10.26	0.21	91.36
16MW-04	11/18/1999	101.23	10.39	90.84	10.66	0.27	91.07
16MW-04	12/1/1999	101.23	9.60	91.63	9.86	0.26	91.85

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-04	12/31/1999	101.23	10.03	91.20	10.32	0.29	91.45
16MW-04	1/26/2000	101.23	10.04	91.19	10.26	0.22	91.38
16MW-04	2/18/2000	101.23	9.44	91.79	9.59	0.15	91.92
16MW-04	4/17/2000	101.23	9.10	92.13	9.23	0.13	92.24
16MW-04	5/4/2000	101.23	8.42	92.81	8.58	0.16	92.95
16MW-04	8/9/2000	101.23	10.00	91.23	10.42	0.42	91.59
16MW-04	8/24/2000	101.23	9.91	91.32	10.17	0.26	91.54
16MW-04	11/28/2000	101.23	9.30	91.93	9.37	0.07	91.99
16MW-04	1/16/2001	101.23	9.10	92.13	9.14	0.04	92.16
16MW-04	2/27/2001	101.23	8.61	92.62	8.61	0.00	92.62
16MW-04	3/27/2001	101.23	8.25	92.98	8.55	0.30	93.24
16MW-04	4/19/2001	101.23	9.17	92.06	9.61	0.44	92.43
16MW-04	5/11/2001	101.23	9.76	91.47	10.21	0.45	91.86
16MW-04	6/6/2001	101.23	9.89	91.34	10.30	0.41	91.69
16MW-04	8/14/2001	101.23	9.33	91.90	9.38	0.05	91.94
16MW-04	9/14/2001	101.23	10.08	91.15	10.22	0.14	91.27
16MW-04	10/11/2001	101.23	9.97	91.26	10.03	0.06	91.31
16MW-04	11/13/2001	101.23	10.27	90.96	10.37	0.10	91.05
16MW-04	12/13/2001	101.23	9.76	91.47	9.79	0.03	91.49
16MW-04	2/28/2002	101.23	10.11	91.12	10.17	0.06	91.17
16MW-04	3/28/2002	101.23	9.27	91.96	9.31	0.04	91.99
16MW-04	4/23/2002	101.23	9.63	91.60	9.68	0.05	91.64
16MW-04	5/15/2002	101.23	9.30	91.93	9.33	0.03	91.96
16MW-04	6/8/2002	101.23	9.48	91.75	-	0.00	91.75
16MW-04	6/27/2002	101.23	9.73	91.50	9.81	0.08	91.56
16MW-04	7/16/2002	101.23	10.06	91.17	10.07	0.01	91.17
16MW-04	8/15/2002	101.23	10.90	90.33	11.43	0.53	90.78
16MW-04	9/10/2002	101.23	9.76	91.47	9.76	0.00	91.47
16MW-04	10/18/2002	101.23	8.65	92.58	9.20	0.55	93.05
16MW-04	11/14/2002	101.23	9.07	92.16	9.13	0.06	92.21
16MW-04	11/26/2002	101.23	8.90	92.33	8.95	0.05	92.37
16MW-04	12/16/2002	101.23	8.90	92.33	9.03	0.13	92.44
16MW-04	1/28/2003	101.23	8.55	92.68	8.56	0.01	92.69
16MW-04	2/26/2003	101.23	8.30	92.93	8.40	0.10	93.01
16MW-04	3/31/2003	101.23	7.90	93.33	7.92	0.02	93.35
16MW-04	4/29/2003	101.23	7.92	93.31	7.99	0.07	93.37
16MW-04	5/23/2003	101.23	8.20	93.03	8.22	0.02	93.04
16MW-04	8/1/2003	101.23	8.88	92.35	9.03	0.15	92.48
16MW-04	8/26/2003	101.23	9.12	92.11	9.28	0.16	92.24
16MW-04	9/17/2003	101.23	8.69	92.54	-	0.00	92.54
16MW-04	10/28/2003	101.23	8.90	92.33	-	0.00	92.33
16MW-04	11/11/2003	101.23	8.84	92.39	8.93	0.09	92.47
16MW-04	12/30/2003	101.23	8.60	92.63	8.83	0.23	92.82
16MW-04	1/16/2004	101.23	8.60	92.63	8.71	0.11	92.73
16MW-04	2/18/2004	101.23	8.80	92.43	9.05	0.25	92.64
16MW-04	3/24/2004	101.23	8.27	92.96	7.75	0.25	93.17
16MW-04	4/5/2004	101.23	8.21	93.02	7.51	0.70	93.62
16MW-04	5/5/2004	101.23	8.70	92.53	7.10	1.60	93.89

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-04	6/29/2004	101.23	8.87	92.36	8.63	0.24	92.56
16MW-04	7/27/2004	101.23	8.35	92.88	8.28	0.07	92.94
16MW-04	8/18/2004	101.23	9.20	92.03	8.80	0.40	92.37
16MW-04	9/1/2004	101.23	9.10	92.13	9.00	0.10	92.22
16MW-04	10/19/2004	101.23	9.15	92.08	9.00	0.15	92.21
16MW-04	11/23/2004	101.23	9.20	92.03	8.75	0.45	92.41
16MW-04	12/16/2004	101.23	9.35	91.88	8.06	1.29	92.98
16MW-04	1/12/2005	101.23	9.21	92.02	8.08	1.13	92.98
16MW-04	2/17/2005	101.23	8.64	92.59	7.75	0.89	93.35
16MW-04	3/2/2005	101.23	10.10	91.13	7.72	2.38	93.16
16MW-04	4/5/2005	101.23	7.81	93.42	7.22	0.59	93.92
16MW-04	5/13/2005	101.23	7.32	93.91	7.21	0.11	94.00
16MW-04	6/8/2005	101.23	8.12	93.11	8.02	0.10	93.20
16MW-04	7/27/2005	101.23	8.70	92.53	-	0.00	92.53
16MW-04	8/17/2005	101.23	8.25	92.98	-	0.00	92.98
16MW-04	9/21/2005	101.23	10.73	90.50	10.70	0.03	90.53
16MW-04	11/9/2005	101.23	8.60	92.63	8.00	0.60	93.14
16MW-13	8/20/1997	100.97	10.90	90.07	11.70	0.80	90.75
16MW-13	10/6/1997	100.97	11.10	89.87	11.85	0.75	90.51
16MW-13	12/12/1997	100.97	10.50	90.47	11.15	0.65	91.02
16MW-13	1/7/1998	100.97	10.22	90.75	10.95	0.73	91.37
16MW-13	1/15/1998	100.97	10.29	90.68	11.04	0.75	91.31
16MW-13	2/10/1998	100.97	10.01	90.96	10.89	0.88	91.71
16MW-13	2/24/1998	100.97	8.82	92.15	9.54	0.72	92.76
16MW-13	3/3/1998	100.97	10.02	90.95	11.06	1.04	91.84
16MW-13	3/12/1998	100.97	9.67	91.30	10.70	1.03	92.17
16MW-13	3/13/1998	100.97	9.02	91.95	9.83	0.81	92.64
16MW-13	3/26/1998	100.97	7.05	93.92	7.35	0.30	94.18
16MW-13	4/3/1998	100.97	7.72	93.25	8.14	0.42	93.61
16MW-13	4/9/1998	100.97	7.34	93.63	7.61	0.27	93.86
16MW-13	4/17/1998	100.97	6.95	94.02	7.13	0.18	94.17
16MW-13	4/24/1998	100.97	8.16	92.81	8.74	0.58	93.30
16MW-13	5/5/1998	100.97	8.85	92.12	9.61	0.76	92.77
16MW-13	5/15/1998	100.97	7.09	93.88	7.61	0.52	94.32
16MW-13	7/30/1998	100.97	10.25	90.72	11.07	0.82	91.42
16MW-13	8/7/1998	100.97	8.57	92.40	8.83	0.26	92.62
16MW-13	8/13/1998	100.97	8.36	92.61	8.51	0.15	92.73
16MW-13	8/21/1998	100.97	8.84	92.13	9.11	0.27	92.36
16MW-13	9/3/1998	100.97	8.69	92.28	8.87	0.18	92.43
16MW-13	9/10/1998	100.97	8.71	92.26	8.86	0.15	92.39
16MW-13	10/2/1998	100.97	9.23	91.74	9.50	0.27	91.97
16MW-13	10/20/1998	100.97	8.88	92.09	9.02	0.14	92.21
16MW-13	11/6/1998	100.97	9.01	91.96	9.15	0.14	92.08
16MW-13	12/3/1998	100.97	8.95	92.02	9.06	0.11	92.11
16MW-13	12/30/1998	100.97	9.29	91.68	9.49	0.20	91.85
16MW-13	1/26/1999	100.97	8.10	92.87	8.28	0.18	93.03
16MW-13	2/10/1999	100.97	9.00	91.97	9.38	0.38	92.29

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-13	3/3/1999	100.97	8.13	92.84	8.24	0.11	92.93
16MW-13	3/9/1999	100.97	8.17	92.80	8.31	0.14	92.92
16MW-13	3/19/1999	100.97	7.97	93.00	8.13	0.16	93.13
16MW-13	4/20/1999	100.97	8.00	92.97	8.15	0.15	93.09
16MW-13	5/7/1999	100.97	8.45	92.52	8.59	0.14	92.64
16MW-13	6/9/1999	100.97	7.76	93.21	7.77	0.01	93.21
16MW-13	6/9/1999	100.97	9.80	91.17	10.24	0.44	91.54
16MW-13	6/10/1999	100.97	9.20	91.77	9.30	0.10	91.85
16MW-13	6/14/1999	100.97	9.52	91.45	9.87	0.35	91.75
16MW-13	6/22/1999	100.97	9.76	91.21	10.17	0.41	91.56
16MW-13	7/29/1999	100.97	10.83	90.14	11.32	0.49	90.56
16MW-13	8/3/1999	100.97	10.90	90.07	11.38	0.48	90.47
16MW-13	8/13/1999	100.97	11.03	89.94	11.51	0.48	90.35
16MW-13	9/3/1999	100.97	9.15	91.82	9.18	0.03	91.85
16MW-13	9/15/1999	100.97	9.41	91.56	9.46	0.05	91.60
16MW-13	10/26/1999	100.97	10.24	90.73	10.74	0.50	91.15
16MW-13	11/2/1999	100.97	10.47	90.50	10.99	0.52	90.94
16MW-13	11/12/1999	100.97	10.07	90.90	10.44	0.37	91.21
16MW-13	11/18/1999	100.97	10.36	90.61	10.78	0.42	90.96
16MW-13	12/1/1999	100.97	10.26	90.71	10.69	0.43	91.07
16MW-13	12/31/1999	100.97	10.12	90.85	10.59	0.47	91.25
16MW-13	1/26/2000	100.97	10.06	90.91	10.44	0.38	91.24
16MW-13	2/18/2000	100.97	8.94	92.03	9.10	0.16	92.17
16MW-13	4/17/2000	100.97	8.87	92.10	9.08	0.21	92.27
16MW-13	5/4/2000	100.97	7.94	93.03	8.04	0.10	93.12
16MW-13	8/9/2000	100.97	8.68	92.29	8.93	0.25	92.50
16MW-13	8/24/2000	100.97	8.71	92.26	8.79	0.08	92.33
16MW-13	10/26/2000	100.97	9.03	91.94	9.10	0.07	92.00
16MW-13	11/28/2000	100.97	9.80	91.17	9.90	0.10	91.26
16MW-13	1/16/2001	100.97	9.03	91.94	9.20	0.17	92.08
16MW-13	2/27/2001	100.97	8.05	92.92	8.09	0.04	92.95
16MW-13	3/27/2001	100.97	8.09	92.88	8.35	0.26	93.10
16MW-13	4/19/2001	100.97	9.61	91.36	10.36	0.75	92.00
16MW-13	5/11/2001	100.97	10.28	90.69	11.06	0.78	91.36
16MW-13	6/6/2001	100.97	10.18	90.79	10.87	0.69	91.38
16MW-13	8/14/2001	100.97	9.67	91.30	10.00	0.33	91.58
16MW-13	9/14/2001	100.97	9.48	91.49	9.63	0.15	91.62
16MW-13	10/11/2001	100.97	9.41	91.56	9.50	0.09	91.63
16MW-13	11/13/2001	100.97	9.45	91.52	9.49	0.04	91.56
16MW-13	12/13/2001	100.97	9.34	91.63	9.39	0.05	91.67
16MW-13	1/8/2002	100.97	9.35	91.62	9.36	0.01	91.63
16MW-13	1/23/2002	100.97	9.35	91.62	9.41	0.06	91.67
16MW-13	2/28/2002	100.97	9.51	91.46	9.56	0.05	91.50
16MW-13	3/28/2002	100.97	9.04	91.93	9.18	0.14	92.05
16MW-13	4/23/2002	100.97	10.12	90.85	10.48	0.36	91.16
16MW-13	5/15/2002	100.97	9.98	90.99	10.38	0.40	91.33
16MW-13	6/8/2002	100.97	9.40	91.57	9.55	0.15	91.70
16MW-13	6/27/2002	100.97	9.70	91.27	9.95	0.25	91.48

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-13	7/16/2002	100.97	9.66	91.31	9.72	0.06	91.36
16MW-13	8/15/2002	100.97	9.98	90.99	10.17	0.19	91.15
16MW-13	9/10/2002	100.97	9.74	91.23	-	0.00	91.23
16MW-13	10/18/2002	100.97	9.00	91.97	9.21	0.21	92.14
16MW-13	11/14/2002	100.97	9.40	91.57	9.45	0.05	91.61
16MW-13	11/26/2002	100.97	9.90	91.07	10.42	0.52	91.52
16MW-13	12/16/2002	100.97	9.87	91.10	10.48	0.61	91.62
16MW-13	1/28/2003	100.97	9.00	91.97	9.33	0.33	92.25
16MW-13	2/26/2003	100.97	8.00	92.97	8.30	0.30	93.23
16MW-13	3/31/2003	100.97	7.15	93.82	7.18	0.03	93.85
16MW-13	4/29/2003	100.97	7.80	93.17	8.05	0.25	93.38
16MW-13	5/23/2003	100.97	7.90	93.07	8.03	0.13	93.18
16MW-13	6/26/2003	100.97	7.16	93.81	7.39	0.23	94.00
16MW-13	8/1/2003	100.97	8.21	92.76	8.36	0.15	92.89
16MW-13	8/26/2003	100.97	8.60	92.37	8.79	0.19	92.53
16MW-13	9/17/2003	100.97	8.41	92.56	8.51	0.10	92.65
16MW-13	10/28/2003	100.97	8.55	92.42	8.63	0.08	92.48
16MW-13	12/30/2003	100.97	7.75	93.22	7.94	0.19	93.38
16MW-13	1/16/2004	100.97	8.16	92.81	8.34	0.18	92.96
16MW-13	2/18/2004	100.97	7.70	93.27	7.83	0.13	93.38
16MW-13	3/24/2004	100.97	7.35	93.62	7.00	0.35	93.92
16MW-13	4/5/2004	100.97	7.20	93.77	6.78	0.42	94.13
16MW-13	5/5/2004	100.97	7.21	93.76	6.38	0.83	94.47
16MW-13	6/29/2004	100.97	8.34	92.63	8.01	0.33	92.91
16MW-13	7/27/2004	100.97	9.00	91.97	7.50	1.50	93.25
16MW-13	8/18/2004	100.97	8.40	92.57	8.20	0.20	92.74
16MW-13	9/1/2004	100.97	8.41	92.56	8.35	0.06	92.61
16MW-13	10/19/2004	100.97	8.55	92.42	8.40	0.15	92.55
16MW-13	11/23/2004	100.97	8.50	92.47	8.23	0.27	92.70
16MW-13	12/16/2004	100.97	8.21	92.76	7.55	0.66	93.32
16MW-13	1/12/2005	100.97	8.25	92.72	7.55	0.70	93.32
16MW-13	2/17/2005	100.97	7.54	93.43	7.19	0.35	93.73
16MW-13	3/2/2005	100.97	7.43	93.54	7.23	0.20	93.71
16MW-13	4/5/2005	100.97	7.71	93.26	6.46	1.25	94.33
16MW-13	5/13/2005	100.97	7.22	93.75	6.95	0.27	93.98
16MW-13	6/8/2005	100.97	7.76	93.21	7.45	0.31	93.47
16MW-13	7/27/2005	100.97	8.30	92.67	7.90	0.40	93.01
16MW-13	8/17/2005	100.97	8.56	92.41	8.55	0.01	92.42
16MW-13	9/21/2005	100.97	10.10	90.87	8.90	1.20	91.89
16MW-13	10/5/2005	100.97	10.35	90.62	9.15	1.20	91.64
16MW-13	11/9/2005	100.97	7.60	93.37	7.40	0.20	93.54
16MW-14	8/20/1997	100.66	10.64	90.02	11.47	0.83	90.72
16MW-14	10/6/1997	100.66	11.61	89.05	12.60	0.99	89.90
16MW-14	12/12/1997	100.66	10.72	89.94	11.51	0.79	90.61
16MW-14	1/7/1998	100.66	10.52	90.14	11.38	0.86	90.87
16MW-14	1/7/1998	100.66	10.52	90.14	11.38	0.86	90.87
16MW-14	1/15/1998	100.66	9.61	91.05	10.25	0.64	91.59

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-14	2/10/1998	100.66	10.36	90.30	11.44	1.08	91.22
16MW-14	3/3/1998	100.66	6.40	94.27	7.23	0.84	94.98
16MW-14	3/12/1998	100.66	8.29	92.37	9.04	0.75	93.01
16MW-14	3/13/1998	100.66	8.90	91.76	9.74	0.84	92.47
16MW-14	3/26/1998	100.66	5.70	94.96	5.73	0.03	94.99
16MW-14	4/3/1998	100.66	6.66	94.00	6.87	0.21	94.18
16MW-14	4/9/1998	100.66	5.38	95.28	5.47	0.09	95.36
16MW-14	4/17/1998	100.66	6.05	94.61	6.15	0.10	94.69
16MW-14	4/24/1998	100.66	7.82	92.84	8.37	0.55	93.30
16MW-14	5/5/1998	100.66	7.41	93.25	7.87	0.46	93.64
16MW-14	5/15/1998	100.66	5.70	94.96	5.80	0.10	95.05
16MW-14	7/30/1998	100.66	10.05	90.61	10.90	0.85	91.34
16MW-14	8/7/1998	100.66	7.40	93.26	7.46	0.06	93.31
16MW-14	8/13/1998	100.66	7.71	92.95	7.76	0.05	92.99
16MW-14	8/21/1998	100.66	8.60	92.06	8.87	0.27	92.29
16MW-14	9/3/1998	100.66	8.41	92.25	8.56	0.15	92.38
16MW-14	9/10/1998	100.66	7.96	92.70	8.11	0.15	92.83
16MW-14	10/2/1998	100.66	8.62	92.04	8.80	0.18	92.20
16MW-14	10/20/1998	100.66	8.57	92.09	8.71	0.14	92.21
16MW-14	11/6/1998	100.66	8.65	92.01	8.77	0.12	92.11
16MW-14	12/3/1998	100.66	8.71	91.95	8.84	0.13	92.06
16MW-14	12/30/1998	100.66	9.33	91.33	9.47	0.14	91.45
16MW-14	1/26/1999	100.66	7.62	93.04	7.77	0.15	93.17
16MW-14	2/10/1999	100.66	8.38	92.28	8.68	0.30	92.53
16MW-14	3/3/1999	100.66	8.41	92.25	8.54	0.13	92.36
16MW-14	3/9/1999	100.66	7.45	93.21	7.49	0.04	93.24
16MW-14	3/19/1999	100.66	7.40	93.26	7.49	0.09	93.33
16MW-14	4/20/1999	100.66	7.59	93.07	7.70	0.11	93.17
16MW-14	5/7/1999	100.66	7.77	92.89	7.78	0.01	92.90
16MW-14	6/1/1999	100.66	8.48	92.18	8.70	0.22	92.36
16MW-14	6/9/1999	100.66	7.65	93.01	7.65	0.00	93.01
16MW-14	6/9/1999	100.66	9.04	91.62	9.34	0.30	91.88
16MW-14	6/10/1999	100.66	8.50	92.16	8.63	0.13	92.27
16MW-14	6/14/1999	100.66	8.80	91.86	9.02	0.22	92.04
16MW-14	6/22/1999	100.66	8.95	91.71	9.20	0.25	91.92
16MW-14	7/29/1999	100.66	10.25	90.41	10.63	0.38	90.73
16MW-14	8/3/1999	100.66	10.40	90.26	10.80	0.40	90.60
16MW-14	8/13/1999	100.66	10.46	90.20	10.85	0.39	90.53
16MW-14	9/3/1999	100.66	8.85	91.81	8.88	0.03	91.84
16MW-14	9/15/1999	100.66	9.29	91.37	9.38	0.09	91.45
16MW-14	10/26/1999	100.66	10.20	90.46	10.77	0.57	90.95
16MW-14	11/2/1999	100.66	10.26	90.40	10.79	0.53	90.85
16MW-14	11/12/1999	100.66	9.60	91.06	9.75	0.15	91.19
16MW-14	11/18/1999	100.66	9.82	90.84	10.00	0.18	90.99
16MW-14	12/1/1999	100.66	9.70	90.96	10.05	0.35	91.26
16MW-14	12/31/1999	100.66	9.50	91.16	9.88	0.38	91.48
16MW-14	1/26/2000	100.66	9.44	91.22	9.73	0.29	91.46
16MW-14	2/18/2000	100.66	8.93	91.73	9.17	0.24	91.94

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-14	4/17/2000	100.66	8.42	92.24	8.59	0.17	92.38
16MW-14	5/4/2000	100.66	0.00	100.66	0.00	0.00	100.66
16MW-14	8/9/2000	100.66	8.40	92.26	8.62	0.22	92.45
16MW-14	8/24/2000	100.66	5.56	95.10	5.57	0.01	95.11
16MW-14	10/26/2000	100.66	8.83	91.83	8.90	0.07	91.89
16MW-14	11/28/2000	100.66	9.35	91.31	9.54	0.19	91.47
16MW-14	1/16/2001	100.66	9.30	91.36	9.59	0.29	91.61
16MW-14	2/27/2001	100.66	7.62	93.04	7.63	0.01	93.04
16MW-14	4/19/2001	100.66	7.05	93.61	7.09	0.04	93.64
16MW-14	5/11/2001	100.66	9.17	91.49	9.50	0.33	91.77
16MW-14	6/6/2001	100.66	9.84	90.82	10.36	0.52	91.26
16MW-14	8/14/2001	100.66	9.82	90.84	10.05	0.23	91.04
16MW-14	9/14/2001	100.66	9.67	90.99	9.72	0.05	91.03
16MW-14	10/11/2001	100.66	9.74	90.92	9.77	0.03	90.95
16MW-14	11/13/2001	100.66	9.94	90.72	9.97	0.03	90.75
16MW-14	12/13/2001	100.66	9.88	90.78	9.93	0.05	90.82
16MW-14	1/8/2002	100.66	10.31	90.35	10.53	0.22	90.53
16MW-14	1/23/2002	100.66	9.72	90.94	9.76	0.04	90.98
16MW-14	2/28/2002	100.66	9.87	90.79	9.88	0.01	90.80
16MW-14	3/28/2002	100.66	9.65	91.01	9.84	0.19	91.17
16MW-14	4/23/2002	100.66	10.91	89.75	11.36	0.45	90.13
16MW-14	5/15/2002	100.66	9.64	91.02	9.80	0.16	91.16
16MW-14	6/8/2002	100.66	9.63	91.03	9.70	0.07	91.09
16MW-14	6/27/2002	100.66	9.36	91.30	-	0.00	91.30
16MW-14	7/16/2002	100.66	10.34	90.32	10.45	0.11	90.41
16MW-14	8/15/2002	100.66	10.51	90.15	10.70	0.19	90.31
16MW-14	9/10/2002	100.66	10.69	89.97	11.02	0.33	90.25
16MW-14	10/18/2002	100.66	8.00	92.66	-	0.00	92.66
16MW-14	11/14/2002	100.66	8.05	92.61	8.08	0.03	92.63
16MW-14	11/26/2002	100.66	8.34	92.32	8.36	0.02	92.34
16MW-14	12/16/2002	100.66	7.40	93.26	7.60	0.20	93.43
16MW-14	1/28/2003	100.66	8.20	92.46	8.20	0.00	92.46
16MW-14	2/26/2003	100.66	7.55	93.11	7.62	0.07	93.17
16MW-14	3/31/2003	100.66	7.60	93.06	7.63	0.03	93.08
16MW-14	4/29/2003	100.66	6.61	94.05	-	0.00	94.05
16MW-14	5/23/2003	100.66	7.90	92.76	7.93	0.03	92.78
16MW-14	6/26/2003	100.66	7.20	93.46	7.28	0.08	93.52
16MW-14	8/1/2003	100.66	8.48	92.18	8.56	0.08	92.24
16MW-14	8/26/2003	100.66	8.61	92.05	8.65	0.04	92.09
16MW-14	9/17/2003	100.66	8.47	92.19	8.49	0.02	92.20
16MW-14	10/28/2003	100.66	8.60	92.06	8.63	0.03	92.08
16MW-14	11/11/2003	100.66	8.10	92.56	8.13	0.03	92.58
16MW-14	12/30/2003	100.66	7.45	93.21	7.46	0.01	93.22
16MW-14	1/16/2004	100.66	8.15	92.51	8.18	0.03	92.53
16MW-14	2/18/2004	100.66	7.53	93.13	7.54	0.01	93.14
16MW-14	3/24/2004	100.66	7.65	93.01	7.56	0.09	93.09
16MW-14	4/5/2004	100.66	6.44	94.22	6.35	0.09	94.30
16MW-14	5/5/2004	100.66	7.15	93.51	7.00	0.15	93.64

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-14	6/29/2004	100.66	8.63	92.03	8.54	0.09	92.11
16MW-14	7/27/2004	100.66	7.09	93.57	7.00	0.09	93.65
16MW-14	8/18/2004	100.66	8.64	92.02	8.60	0.04	92.05
16MW-14	9/1/2004	100.66	8.89	91.77	8.80	0.09	91.85
16MW-14	10/19/2004	100.66	8.95	91.71	-	0.00	91.71
16MW-14	11/23/2004	100.66	8.57	92.09	-	0.00	92.09
16MW-14	12/16/2004	100.66	8.14	92.52	8.10	0.04	92.55
16MW-14	1/12/2005	100.66	7.55	93.11	7.50	0.05	93.15
16MW-14	2/17/2005	100.66	6.86	93.80	-	0.00	93.80
16MW-14	3/2/2005	100.66	7.75	92.91	7.66	0.09	92.99
16MW-14	4/5/2005	100.66	6.91	93.75	6.87	0.04	93.78
16MW-14	5/13/2005	100.66	7.37	93.29	-	0.00	93.29
16MW-14	6/8/2005	100.66	7.89	92.77	7.85	0.04	92.80
16MW-14	7/27/2005	100.66	8.35	92.31	8.33	0.02	92.33
16MW-14	8/17/2005	100.66	9.20	91.46	9.10	0.10	91.55
16MW-14	9/21/2005	100.66	10.62	90.04	10.60	0.02	90.06
16MW-14	10/5/2005	100.66	9.85	90.81	9.84	0.01	90.82
16MW-14	11/9/2005	100.66	7.97	92.69	7.95	0.02	92.71
16MW-15	8/20/1997	100.98	11.49	89.49	12.39	0.90	90.26
16MW-15	8/20/1997	100.98	8.80	92.18	9.70	0.90	92.95
16MW-15	10/6/1997	100.98	11.98	89.00	12.91	0.93	89.79
16MW-15	12/12/1997	100.98	11.96	89.02	12.95	0.99	89.87
16MW-15	1/7/1998	100.98	12.38	88.60	13.65	1.27	89.68
16MW-15	1/15/1998	100.98	10.88	90.10	11.72	0.84	90.82
16MW-15	2/10/1998	100.98	12.40	88.58	13.90	1.50	89.85
16MW-15	3/3/1998	100.98	11.50	89.48	12.88	1.38	90.65
16MW-15	3/12/1998	100.98	10.50	90.48	11.69	1.19	91.49
16MW-15	3/13/1998	100.98	8.60	92.38	9.21	0.61	92.90
16MW-15	3/26/1998	100.98	6.40	94.58	6.43	0.03	94.61
16MW-15	4/3/1998	100.98	8.01	92.97	8.43	0.42	93.32
16MW-15	4/9/1998	100.98	7.19	93.79	7.33	0.14	93.91
16MW-15	4/17/1998	100.98	6.79	94.19	6.85	0.06	94.24
16MW-15	4/24/1998	100.98	8.45	92.53	9.03	0.58	93.02
16MW-15	5/5/1998	100.98	8.50	92.48	9.09	0.59	92.98
16MW-15	5/15/1998	100.98	7.20	93.78	7.56	0.36	94.09
16MW-15	7/30/1998	100.98	10.96	90.02	11.88	0.92	90.81
16MW-15	8/7/1998	100.98	9.06	91.92	9.37	0.31	92.18
16MW-15	8/13/1998	100.98	8.77	92.21	8.94	0.17	92.35
16MW-15	8/21/1998	100.98	9.22	91.76	9.49	0.27	91.99
16MW-15	9/3/1998	100.98	9.12	91.86	9.34	0.22	92.05
16MW-15	9/10/1998	100.98	9.11	91.87	9.29	0.18	92.02
16MW-15	10/2/1998	100.98	9.30	91.68	9.51	0.21	91.85
16MW-15	10/20/1998	100.98	9.25	91.73	9.41	0.16	91.87
16MW-15	11/6/1998	100.98	9.06	91.92	9.12	0.06	91.97
16MW-15	12/3/1998	100.98	9.27	91.71	9.39	0.12	91.81
16MW-15	12/30/1998	100.98	8.67	92.31	8.78	0.11	92.40
16MW-15	1/26/1999	100.98	8.12	92.86	8.25	0.13	92.97

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-15	2/10/1999	100.98	8.81	92.17	9.06	0.25	92.38
16MW-15	3/3/1999	100.98	7.77	93.21	7.88	0.11	93.30
16MW-15	3/9/1999	100.98	9.50	91.48	9.90	0.40	91.82
16MW-15	3/19/1999	100.98	8.21	92.77	8.36	0.15	92.90
16MW-15	4/20/1999	100.98	8.30	92.68	8.44	0.14	92.80
16MW-15	6/1/1999	100.98	8.91	92.07	9.08	0.17	92.21
16MW-15	6/9/1999	100.98	7.96	93.02	-	0.00	93.02
16MW-15	6/9/1999	100.98	9.37	91.61	9.60	0.23	91.80
16MW-15	6/10/1999	100.98	9.01	91.97	9.12	0.11	92.06
16MW-15	6/14/1999	100.98	9.27	91.71	9.45	0.18	91.86
16MW-15	6/22/1999	100.98	9.35	91.63	9.56	0.21	91.80
16MW-15	7/29/1999	100.98	10.61	90.37	10.94	0.33	90.65
16MW-15	8/13/1999	100.98	10.98	90.00	11.35	0.37	90.31
16MW-15	9/3/1999	100.98	9.44	91.54	9.48	0.04	91.57
16MW-15	9/15/1999	100.98	9.94	91.04	10.06	0.12	91.14
16MW-15	10/26/1999	100.98	10.65	90.33	11.20	0.55	90.79
16MW-15	11/2/1999	100.98	10.93	90.05	11.50	0.57	90.54
16MW-15	11/12/1999	100.98	9.70	91.28	10.04	0.34	91.57
16MW-15	11/18/1999	100.98	9.81	91.17	10.16	0.35	91.47
16MW-15	12/1/1999	100.98	9.60	91.38	9.76	0.16	91.52
16MW-15	12/31/1999	100.98	9.48	91.50	9.69	0.21	91.67
16MW-15	1/26/2000	100.98	9.50	91.48	9.64	0.14	91.60
16MW-15	2/18/2000	100.98	8.91	92.07	8.98	0.07	92.13
16MW-15	4/17/2000	100.98	8.83	92.15	8.95	0.12	92.25
16MW-15	5/4/2000	100.98	8.25	92.73	8.32	0.07	92.79
16MW-15	8/9/2000	100.98	9.17	91.81	9.44	0.27	92.04
16MW-15	8/24/2000	100.98	9.05	91.93	9.14	0.09	92.00
16MW-15	10/26/2000	100.98	9.35	91.63	9.43	0.08	91.69
16MW-15	11/28/2000	100.98	8.90	92.08	9.00	0.10	92.17
16MW-15	1/16/2001	100.98	9.00	91.98	9.09	0.09	92.05
16MW-15	2/27/2001	100.98	8.17	92.81	-	0.00	92.81
16MW-15	3/27/2001	100.98	7.65	93.33	7.71	0.06	93.38
16MW-15	4/19/2001	100.98	7.98	93.00	8.19	0.21	93.18
16MW-15	5/11/2001	100.98	9.33	91.65	9.74	0.41	92.00
16MW-15	6/6/2001	100.98	10.06	90.92	10.61	0.55	91.39
16MW-15	8/14/2001	100.98	9.19	91.79	9.29	0.10	91.88
16MW-15	9/14/2001	100.98	9.80	91.18	9.95	0.15	91.30
16MW-15	10/11/2001	100.98	9.72	91.26	9.81	0.09	91.33
16MW-15	11/13/2001	100.98	10.28	90.70	10.49	0.21	90.88
16MW-15	12/13/2001	100.98	10.07	90.91	10.26	0.19	91.07
16MW-15	1/8/2002	100.98	9.82	91.16	9.97	0.15	91.29
16MW-15	1/23/2002	100.98	9.50	91.48	9.54	0.04	91.51
16MW-15	2/28/2002	100.98	9.65	91.33	9.68	0.03	91.36
16MW-15	3/28/2002	100.98	8.80	92.18	8.85	0.05	92.22
16MW-15	4/23/2002	100.98	9.49	91.49	9.60	0.11	91.58
16MW-15	5/15/2002	100.98	9.28	91.70	9.41	0.13	91.81
16MW-15	6/8/2002	100.98	9.40	91.58	9.48	0.08	91.64
16MW-15	6/27/2002	100.98	9.35	91.63	9.41	0.06	91.68

APPENDIX B
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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-15	7/16/2002	100.98	9.89	91.09	9.93	0.04	91.12
16MW-15	8/15/2002	100.98	10.23	90.75	10.35	0.12	90.85
16MW-15	9/10/2002	100.98	10.31	90.67	10.63	0.32	90.94
16MW-15	10/18/2002	100.98	8.75	92.23	8.82	0.07	92.29
16MW-15	11/14/2002	100.98	9.15	91.83	9.31	0.16	91.97
16MW-15	11/26/2002	100.98	10.45	90.53	11.06	0.61	91.05
16MW-15	12/16/2002	100.98	9.75	91.23	10.24	0.49	91.65
16MW-15	1/28/2003	100.98	8.60	92.38	8.71	0.11	92.48
16MW-15	2/26/2003	100.98	8.07	92.91	8.21	0.14	93.03
16MW-15	3/31/2003	100.98	7.60	93.38	7.63	0.03	93.40
16MW-15	4/29/2003	100.98	7.51	93.47	7.55	0.04	93.50
16MW-15	5/23/2003	100.98	8.02	92.96	8.07	0.05	93.00
16MW-15	6/26/2003	100.98	7.40	93.58	7.55	0.15	93.70
16MW-15	8/1/2003	100.98	8.42	92.56	8.53	0.11	92.65
16MW-15	8/26/2003	100.98	7.80	93.18	7.95	0.15	93.31
16MW-15	9/17/2003	100.98	8.74	92.24	8.86	0.12	92.34
16MW-15	10/28/2003	100.98	8.72	92.26	8.78	0.06	92.31
16MW-15	11/11/2003	100.98	8.10	92.88	8.12	0.02	92.89
16MW-15	12/30/2003	100.98	7.80	93.18	7.89	0.09	93.25
16MW-15	1/16/2004	100.98	8.30	92.68	8.43	0.13	92.79
16MW-15	2/18/2004	100.98	8.25	92.73	8.44	0.19	92.89
16MW-15	3/24/2004	100.98	7.87	93.11	7.47	0.40	93.45
16MW-15	4/5/2004	100.98	7.61	93.37	7.19	0.42	93.73
16MW-15	5/5/2004	100.98	7.90	93.08	6.82	1.08	94.00
16MW-15	6/29/2004	100.98	8.82	92.16	8.29	0.53	92.61
16MW-15	7/27/2004	100.98	8.20	92.78	8.00	0.20	92.95
16MW-15	8/18/2004	100.98	8.55	92.43	8.45	0.10	92.52
16MW-15	9/1/2004	100.98	8.79	92.19	8.75	0.04	92.22
16MW-15	11/23/2004	100.98	9.23	91.75	8.34	0.89	92.51
16MW-15	12/16/2004	100.98	9.05	91.93	7.69	1.36	93.09
16MW-15	1/12/2005	100.98	9.21	91.77	7.65	1.56	93.10
16MW-15	2/17/2005	100.98	7.65	93.33	7.58	0.07	93.39
16MW-15	3/2/2005	100.98	8.21	92.77	7.59	0.62	93.30
16MW-15	4/5/2005	100.98	7.06	93.92	6.99	0.07	93.98
16MW-15	5/13/2005	100.98	7.39	93.59	7.22	0.17	93.73
16MW-15	6/8/2005	100.98	7.91	93.07	7.71	0.20	93.24
16MW-15	7/27/2005	100.98	9.15	91.83	9.12	0.03	91.86
16MW-15	8/17/2005	100.98	8.96	92.02	8.95	0.01	92.03
16MW-15	9/21/2005	100.98	9.91	91.07	9.90	0.01	91.08
16MW-15	10/5/2005	100.98	10.11	90.87	10.10	0.01	90.88
16MW-15	11/9/2005	100.98	8.30	92.68	8.20	0.10	92.77
16MW-16	8/20/1997	98.82	7.01	91.81	7.07	0.06	91.86
16MW-16	10/6/1997	98.82	8.19	90.63	8.55	0.36	90.93
16MW-16	12/12/1997	98.82	10.90	87.92	12.10	1.20	88.94
16MW-16	1/7/1998	98.82	10.40	88.42	11.55	1.15	89.40
16MW-16	1/15/1998	98.82	7.83	90.99	8.39	0.56	91.47
16MW-16	2/10/1998	98.82	7.38	91.44	7.87	0.49	91.86

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-16	2/24/1998	98.82	4.05	94.77	4.25	0.20	94.94
16MW-16	3/3/1998	98.82	5.70	93.12	5.87	0.17	93.27
16MW-16	3/12/1998	98.82	4.81	94.01	4.84	0.03	94.03
16MW-16	3/13/1998	98.82	5.12	93.70	5.14	0.02	93.72
16MW-16	3/26/1998	98.82	4.42	94.40	4.43	0.01	94.41
16MW-16	4/3/1998	98.82	5.17	93.65	5.18	0.01	93.66
16MW-16	4/9/1998	98.82	5.35	93.47	5.37	0.02	93.49
16MW-16	4/17/1998	98.82	5.60	93.22	5.74	0.14	93.34
16MW-16	4/24/1998	98.82	5.28	93.54	5.37	0.09	93.62
16MW-16	5/5/1998	98.82	5.32	93.50	5.40	0.08	93.56
16MW-16	5/15/1998	98.82	4.25	94.57	4.36	0.11	94.66
16MW-16	7/30/1998	98.82	7.64	91.18	8.03	0.39	91.51
16MW-16	8/7/1998	98.82	6.92	91.90	7.06	0.14	92.02
16MW-16	8/13/1998	98.82	7.22	91.60	7.39	0.17	91.75
16MW-16	8/21/1998	98.82	6.99	91.83	7.06	0.07	91.89
16MW-16	9/3/1998	98.82	6.86	91.96	6.90	0.04	91.99
16MW-16	9/10/1998	98.82	7.01	91.81	7.05	0.04	91.84
16MW-16	10/2/1998	98.82	7.22	91.60	7.30	0.08	91.67
16MW-16	10/20/1998	98.82	7.16	91.66	7.20	0.04	91.69
16MW-16	11/6/1998	98.82	7.25	91.57	7.28	0.03	91.60
16MW-16	12/3/1998	98.82	7.24	91.58	7.28	0.04	91.61
16MW-16	12/30/1998	98.82	7.27	91.55	7.33	0.06	91.60
16MW-16	1/26/1999	98.82	5.89	92.93	5.90	0.01	92.94
16MW-16	2/10/1999	98.82	6.45	92.37	6.53	0.08	92.44
16MW-16	3/9/1999	98.82	6.21	92.61	6.23	0.02	92.62
16MW-16	3/19/1999	98.82	5.85	92.97	5.86	0.01	92.97
16MW-16	4/20/1999	98.82	6.05	92.77	6.06	0.01	92.78
16MW-16	5/7/1999	98.82	6.26	92.56	6.27	0.01	92.57
16MW-16	6/1/1999	98.82	6.95	91.87	7.05	0.10	91.95
16MW-16	6/9/1999	98.82	6.15	92.67	6.15	0.00	92.67
16MW-16	6/9/1999	98.82	7.50	91.32	7.66	0.16	91.46
16MW-16	6/10/1999	98.82	7.05	91.77	7.08	0.03	91.79
16MW-16	6/14/1999	98.82	7.20	91.62	7.26	0.06	91.67
16MW-16	6/22/1999	98.82	7.26	91.56	7.36	0.10	91.64
16MW-16	7/29/1999	98.82	8.62	90.20	8.85	0.23	90.39
16MW-16	8/3/1999	98.82	8.80	90.02	9.05	0.25	90.23
16MW-16	8/13/1999	98.82	8.97	89.85	9.24	0.27	90.08
16MW-16	9/3/1999	98.82	8.35	90.47	8.55	0.20	90.64
16MW-16	9/15/1999	98.82	8.10	90.72	8.19	0.09	90.79
16MW-16	10/26/1999	98.82	8.00	90.82	8.30	0.30	91.08
16MW-16	11/2/1999	98.82	8.22	90.60	8.53	0.31	90.86
16MW-16	11/12/1999	98.82	7.30	91.52	7.33	0.03	91.54
16MW-16	11/18/1999	98.82	7.57	91.25	7.61	0.04	91.29
16MW-16	12/1/1999	98.82	7.51	91.31	7.59	0.08	91.38
16MW-16	12/31/1999	98.82	7.44	91.38	7.48	0.04	91.41
16MW-16	1/26/2000	98.82	7.37	91.45	7.41	0.04	91.49
16MW-16	2/18/2000	98.82	6.85	91.97	6.86	0.01	91.98
16MW-16	4/17/2000	98.82	6.59	92.23	6.61	0.02	92.25

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-16	8/9/2000	98.82	6.46	92.36	6.63	0.17	92.51
16MW-16	8/24/2000	98.82	0.00	98.82	-	0.00	98.82
16MW-16	10/26/2000	98.82	7.40	91.42	7.53	0.13	91.53
16MW-16	11/28/2000	98.82	8.57	90.25	8.86	0.29	90.49
16MW-16	1/16/2001	98.82	6.99	91.83	7.02	0.03	91.85
16MW-16	2/27/2001	98.82	6.26	92.56	-	0.00	92.56
16MW-16	3/27/2001	98.82	5.90	92.92	-	0.00	92.92
16MW-16	5/11/2001	98.82	6.38	92.44	6.43	0.05	92.48
16MW-16	6/6/2001	98.82	6.54	92.28	6.58	0.04	92.31
16MW-16	8/14/2001	98.82	7.56	91.26	7.68	0.12	91.36
16MW-16	9/14/2001	98.82	8.22	90.60	8.39	0.17	90.75
16MW-16	10/11/2001	98.82	7.35	91.47	7.52	0.17	91.61
16MW-16	11/13/2001	98.82	8.91	89.91	9.23	0.32	90.18
16MW-16	12/13/2001	98.82	7.57	91.25	7.61	0.04	91.28
16MW-16	1/8/2002	98.82	7.77	91.05	7.87	0.10	91.13
16MW-16	1/23/2002	98.82	7.60	91.22	7.64	0.04	91.25
16MW-16	2/28/2002	98.82	7.75	91.07	7.76	0.01	91.07
16MW-16	3/28/2002	98.82	6.75	92.07	6.76	0.01	92.08
16MW-16	4/23/2002	98.82	7.38	91.44	7.66	0.28	91.68
16MW-16	5/15/2002	98.82	7.09	91.73	7.12	0.03	91.76
16MW-16	6/8/2002	98.82	7.35	91.47	7.36	0.01	91.48
16MW-16	6/27/2002	98.82	7.50	91.32	7.55	0.05	91.36
16MW-16	8/15/2002	98.82	8.51	90.31	8.63	0.12	90.41
16MW-16	9/10/2002	98.82	7.51	91.31	7.54	0.03	91.34
16MW-16	10/18/2002	98.82	7.10	91.72	7.11	0.01	91.73
16MW-16	11/14/2002	98.82	6.76	92.06	6.78	0.02	92.08
16MW-16	11/26/2002	98.82	5.17	93.65	5.18	0.01	93.65
16MW-16	12/16/2002	98.82	6.33	92.49	6.37	0.04	92.52
16MW-16	1/28/2003	98.82	6.40	92.42	6.43	0.03	92.44
16MW-16	2/26/2003	98.82	4.99	93.83	5.00	0.01	93.84
16MW-16	3/31/2003	98.82	5.31	93.51	5.32	0.01	93.52
16MW-16	4/29/2003	98.82	4.98	93.84	4.99	0.01	93.85
16MW-16	5/23/2003	98.82	5.97	92.85	5.98	0.01	92.85
16MW-16	6/26/2003	98.82	4.00	94.82	4.01	0.01	94.83
16MW-16	8/1/2003	98.82	6.20	92.62	6.21	0.01	92.63
16MW-16	8/26/2003	98.82	6.40	92.42	6.41	0.01	92.43
16MW-16	12/30/2003	98.82	0.00	98.82	-	0.00	98.82
16MW-16	3/24/2004	98.82	4.76	94.06	4.68	0.08	94.13
16MW-16	4/5/2004	98.82	4.51	94.31	4.44	0.07	94.37
16MW-16	5/5/2004	98.82	5.40	93.42	-	0.00	93.42
16MW-16	6/29/2004	98.82	6.75	92.07	6.63	0.12	92.17
16MW-16	7/27/2004	98.82	6.50	92.32	-	0.00	92.32
16MW-16	8/18/2004	98.82	5.40	93.42	-	0.00	93.42
16MW-16	9/1/2004	98.82	4.95	93.87	-	0.00	93.87
16MW-16	10/19/2004	98.82	6.99	91.83	6.90	0.09	91.91
16MW-16	11/23/2004	98.82	6.55	92.27	6.46	0.09	92.35
16MW-16	1/12/2005	98.82	3.86	94.96	3.82	0.04	94.99
16MW-16	2/17/2005	98.82	3.71	95.11	3.55	0.16	95.25

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-16	3/2/2005	98.82	5.37	93.45	5.33	0.04	93.48
16MW-16	4/5/2005	98.82	4.71	94.11	4.58	0.13	94.22
16MW-16	5/13/2005	98.82	4.97	93.85	4.85	0.12	93.95
16MW-16	6/8/2005	98.82	5.49	93.33	-	0.00	93.33
16MW-16	7/27/2005	98.82	7.42	91.40	-	0.00	91.40
16MW-16	8/17/2005	98.82	7.31	91.51	7.30	0.01	91.52
16MW-16	9/21/2005	98.82	7.80	91.02	7.75	0.05	91.06
16MW-16	10/5/2005	98.82	8.00	90.82	7.98	0.02	90.84
16MW-16	11/9/2005	98.82	4.75	94.07	4.72	0.03	94.10
16MW-17	8/20/1997	99.79	10.87	88.92	11.91	1.04	89.80
16MW-17	10/6/1997	99.79	8.19	91.60	9.47	1.28	92.69
16MW-17	10/6/1997	99.79	10.98	88.81	11.92	0.94	89.61
16MW-17	12/12/1997	99.79	10.50	89.29	11.38	0.88	90.04
16MW-17	1/7/1998	99.79	11.15	88.64	12.37	1.22	89.68
16MW-17	1/15/1998	99.79	8.45	91.34	8.89	0.44	91.71
16MW-17	2/10/1998	99.79	10.24	89.55	11.42	1.18	90.55
16MW-17	2/24/1998	99.79	6.70	93.09	7.08	0.38	93.41
16MW-17	3/3/1998	99.79	8.95	90.84	9.91	0.96	91.66
16MW-17	3/12/1998	99.79	7.27	92.52	7.77	0.50	92.94
16MW-17	3/13/1998	99.79	5.55	94.24	5.63	0.08	94.30
16MW-17	3/26/1998	99.79	5.35	94.44	5.37	0.02	94.45
16MW-17	4/3/1998	99.79	5.54	94.25	5.65	0.11	94.34
16MW-17	4/9/1998	99.79	6.12	93.67	6.22	0.10	93.75
16MW-17	4/17/1998	99.79	6.04	93.75	6.18	0.14	93.87
16MW-17	4/24/1998	99.79	6.19	93.60	6.40	0.21	93.77
16MW-17	5/5/1998	99.79	6.45	93.34	6.72	0.27	93.57
16MW-17	5/15/1998	99.79	5.36	94.43	5.45	0.09	94.51
16MW-17	7/30/1998	99.79	10.26	89.53	11.27	1.01	90.39
16MW-17	8/7/1998	99.79	7.72	92.07	7.93	0.21	92.25
16MW-17	8/13/1998	99.79	7.95	91.84	8.17	0.22	92.03
16MW-17	8/21/1998	99.79	7.62	92.17	7.71	0.09	92.25
16MW-17	9/3/1998	99.79	7.76	92.03	7.88	0.12	92.13
16MW-17	9/10/1998	99.79	7.72	92.07	7.80	0.08	92.14
16MW-17	10/2/1998	99.79	8.28	91.51	8.48	0.20	91.68
16MW-17	10/20/1998	99.79	7.85	91.94	7.92	0.07	92.00
16MW-17	11/6/1998	99.79	8.04	91.75	8.11	0.07	91.81
16MW-17	12/3/1998	99.79	7.99	91.80	8.04	0.05	91.84
16MW-17	12/30/1998	99.79	8.36	91.43	8.54	0.18	91.58
16MW-17	1/26/1999	99.79	6.73	93.06	6.81	0.08	93.12
16MW-17	2/10/1999	99.79	7.74	92.05	7.99	0.25	92.26
16MW-17	3/9/1999	99.79	7.03	92.76	7.09	0.06	92.81
16MW-17	3/19/1999	99.79	6.68	93.11	6.74	0.06	93.16
16MW-17	4/20/1999	99.79	6.90	92.89	6.96	0.06	92.94
16MW-17	5/7/1999	99.79	6.96	92.83	6.98	0.02	92.85
16MW-17	6/1/1999	99.79	7.53	92.26	7.61	0.08	92.33
16MW-17	6/9/1999	99.79	7.16	92.63	-	0.00	92.63
16MW-17	6/9/1999	99.79	7.99	91.80	8.12	0.13	91.91

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-17	6/10/1999	99.79	7.74	92.05	7.79	0.05	92.09
16MW-17	6/14/1999	99.79	7.91	91.88	8.01	0.10	91.97
16MW-17	6/22/1999	99.79	8.01	91.78	8.12	0.11	91.88
16MW-17	7/29/1999	99.79	9.40	90.39	9.67	0.27	90.62
16MW-17	8/3/1999	99.79	9.55	90.24	9.83	0.28	90.48
16MW-17	8/13/1999	99.79	9.70	90.09	10.00	0.30	90.34
16MW-17	9/3/1999	99.79	8.49	91.30	8.53	0.04	91.34
16MW-17	9/15/1999	99.79	8.86	90.93	8.97	0.11	91.03
16MW-17	10/26/1999	99.79	9.81	89.98	10.44	0.63	90.51
16MW-17	11/2/1999	99.79	9.99	89.80	10.63	0.64	90.34
16MW-17	11/12/1999	99.79	8.31	91.48	8.41	0.10	91.57
16MW-17	11/18/1999	99.79	8.55	91.24	8.68	0.13	91.35
16MW-17	12/1/1999	99.79	8.87	90.92	9.00	0.13	91.03
16MW-17	12/31/1999	99.79	8.21	91.58	8.37	0.16	91.72
16MW-17	1/26/2000	99.79	8.21	91.58	8.30	0.09	91.65
16MW-17	2/18/2000	99.79	7.57	92.22	7.59	0.02	92.24
16MW-17	4/17/2000	99.79	7.46	92.33	7.51	0.05	92.38
16MW-17	5/4/2000	99.79	7.14	92.65	7.17	0.03	92.67
16MW-17	8/9/2000	99.79	8.40	91.39	8.82	0.42	91.75
16MW-17	8/24/2000	99.79	7.85	91.94	7.91	0.06	91.99
16MW-17	10/26/2000	99.79	8.09	91.70	8.11	0.02	91.72
16MW-17	11/28/2000	99.79	8.48	91.31	8.73	0.25	91.53
16MW-17	1/16/2001	99.79	7.90	91.89	8.00	0.10	91.98
16MW-17	2/27/2001	99.79	7.05	92.74	-	0.00	92.74
16MW-17	3/27/2001	99.79	6.40	93.39	6.43	0.03	93.41
16MW-17	4/19/2001	99.79	6.55	93.24	6.65	0.10	93.33
16MW-17	5/11/2001	99.79	7.42	92.37	7.55	0.13	92.48
16MW-17	6/6/2001	99.79	8.00	91.79	8.25	0.25	92.00
16MW-17	8/14/2001	99.79	9.27	90.52	9.68	0.41	90.87
16MW-17	9/14/2001	99.79	8.70	91.09	8.81	0.11	91.18
16MW-17	10/11/2001	99.79	8.44	91.35	8.46	0.02	91.36
16MW-17	11/13/2001	99.79	8.66	91.13	8.70	0.04	91.16
16MW-17	11/13/2001	99.79	9.22	90.57	-	0.00	90.57
16MW-17	12/13/2001	99.79	8.45	91.34	8.48	0.03	91.36
16MW-17	1/8/2002	99.79	8.51	91.28	8.59	0.08	91.35
16MW-17	1/23/2002	99.79	8.40	91.39	8.43	0.03	91.42
16MW-17	2/28/2002	99.79	8.51	91.28	8.52	0.01	91.29
16MW-17	3/28/2002	99.79	7.64	92.15	7.66	0.02	92.16
16MW-17	4/23/2002	99.79	8.09	91.70	8.11	0.02	91.72
16MW-17	5/15/2002	99.79	7.83	91.96	7.88	0.05	92.00
16MW-17	6/8/2002	99.79	8.08	91.71	8.09	0.01	91.72
16MW-17	6/27/2002	99.79	8.20	91.59	8.24	0.04	91.62
16MW-17	7/16/2002	99.79	8.77	91.02	8.79	0.02	91.04
16MW-17	8/15/2002	99.79	9.88	89.91	10.84	0.96	90.73
16MW-17	9/10/2002	99.79	8.80	90.99	8.98	0.18	91.14
16MW-17	10/18/2002	99.79	7.13	92.66	7.14	0.01	92.67
16MW-17	11/14/2002	99.79	9.30	90.49	9.83	0.53	90.94
16MW-17	11/26/2002	99.79	7.20	92.59	7.43	0.23	92.78

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-17	12/16/2002	99.79	7.50	92.29	7.68	0.18	92.45
16MW-17	1/28/2003	99.79	7.26	92.53	7.30	0.04	92.56
16MW-17	2/26/2003	99.79	6.54	93.25	6.57	0.03	93.27
16MW-17	3/31/2003	99.79	6.50	93.29	6.54	0.04	93.32
16MW-17	4/29/2003	99.79	6.35	93.44	6.37	0.02	93.45
16MW-17	5/23/2003	99.79	7.03	92.76	7.10	0.07	92.82
16MW-17	6/26/2003	99.79	5.80	93.99	5.83	0.03	94.01
16MW-17	8/1/2003	99.79	7.38	92.41	7.49	0.11	92.51
16MW-17	8/26/2003	99.79	7.61	92.18	7.71	0.10	92.27
16MW-17	9/17/2003	99.79	7.49	92.30	7.54	0.05	92.34
16MW-17	10/28/2003	99.79	7.49	92.30	-	0.00	92.30
16MW-17	11/11/2003	99.79	7.38	92.41	7.46	0.08	92.47
16MW-17	12/30/2003	99.79	6.35	93.44	6.36	0.01	93.45
16MW-17	1/16/2004	99.79	6.95	92.84	7.00	0.05	92.88
16MW-17	2/18/2004	99.79	6.57	93.22	6.59	0.02	93.23
16MW-17	3/24/2004	99.79	6.54	93.25	6.37	0.17	93.39
16MW-17	4/5/2004	99.79	6.24	93.55	6.14	0.10	93.64
16MW-17	5/5/2004	99.79	6.50	93.29	-	0.00	93.29
16MW-17	6/29/2004	99.79	7.36	92.43	-	0.00	92.43
16MW-17	7/27/2004	99.79	7.15	92.64	7.10	0.05	92.68
16MW-17	8/18/2004	99.79	7.40	92.39	-	0.00	92.39
16MW-17	9/1/2004	99.79	7.29	92.50	-	0.00	92.50
16MW-17	10/19/2004	99.79	7.65	92.14	7.61	0.04	92.17
16MW-17	11/23/2004	99.79	7.86	91.93	7.34	0.52	92.37
16MW-17	12/16/2004	99.79	6.96	92.83	6.72	0.24	93.03
16MW-17	1/12/2005	99.79	7.05	92.74	6.72	0.33	93.02
16MW-17	2/17/2005	99.79	6.72	93.07	6.40	0.32	93.34
16MW-17	3/2/2005	99.79	6.78	93.01	6.55	0.23	93.21
16MW-17	4/5/2005	99.79	5.97	93.82	5.76	0.21	94.00
16MW-17	5/13/2005	99.79	6.49	93.30	6.21	0.28	93.54
16MW-17	6/8/2005	99.79	6.71	93.08	6.56	0.15	93.21
16MW-17	7/27/2005	99.79	7.38	92.41	-	0.00	92.41
16MW-17	8/17/2005	99.79	7.98	91.81	-	0.00	91.81
16MW-17	9/21/2005	99.79	8.45	91.34	-	0.00	91.34
16MW-17	10/5/2005	99.79	8.60	91.19	-	0.00	91.19
16MW-17	11/9/2005	99.79	6.71	93.08	6.70	0.01	93.09
16MW-18	8/20/1997	100.69	7.96	92.73	-	0.00	92.73
16MW-18	10/6/1997	100.69	8.21	92.48	-	0.00	92.48
16MW-18	12/12/1997	100.69	7.98	92.71	-	0.00	92.71
16MW-18	1/7/1998	100.69	6.85	93.84	-	0.00	93.84
16MW-18	1/15/1998	100.69	7.24	93.45	-	0.00	93.45
16MW-18	2/10/1998	100.69	5.86	94.83	-	0.00	94.83
16MW-18	2/24/1998	100.69	6.80	93.89	-	0.00	93.89
16MW-18	3/3/1998	100.69	5.30	95.39	-	0.00	95.39
16MW-18	3/12/1998	100.69	4.89	95.80	-	0.00	95.80
16MW-18	3/13/1998	100.69	5.06	95.63	-	0.00	95.63
16MW-18	3/26/1998	100.69	4.78	95.91	-	0.00	95.91

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-18	4/3/1998	100.69	5.51	95.18	-	0.00	95.18
16MW-18	4/9/1998	100.69	5.85	94.84	-	0.00	94.84
16MW-18	4/17/1998	100.69	5.20	95.49	-	0.00	95.49
16MW-18	4/24/1998	100.69	5.50	95.19	-	0.00	95.19
16MW-18	5/5/1998	100.69	4.40	96.29	-	0.00	96.29
16MW-18	5/15/1998	100.69	3.85	96.84	-	0.00	96.84
16MW-18	7/30/1998	100.69	6.93	93.76	-	0.00	93.76
16MW-18	8/7/1998	100.69	7.14	93.55	-	0.00	93.55
16MW-18	8/13/1998	100.69	8.40	92.29	-	0.00	92.29
16MW-18	8/21/1998	100.69	7.61	93.08	-	0.00	93.08
16MW-18	9/3/1998	100.69	7.78	92.91	-	0.00	92.91
16MW-18	9/10/1998	100.69	7.90	92.79	-	0.00	92.79
16MW-18	10/2/1998	100.69	7.66	93.03	-	0.00	93.03
16MW-18	10/20/1998	100.69	8.12	92.57	-	0.00	92.57
16MW-18	11/6/1998	100.69	8.34	92.35	-	0.00	92.35
16MW-18	12/3/1998	100.69	8.20	92.49	-	0.00	92.49
16MW-18	12/30/1998	100.69	8.48	92.21	8.49	0.01	92.21
16MW-18	1/26/1999	100.69	4.36	96.33	-	0.00	96.33
16MW-18	2/10/1999	100.69	6.40	94.29	-	0.00	94.29
16MW-18	3/9/1999	100.69	6.30	94.39	-	0.00	94.39
16MW-18	3/19/1999	100.69	4.80	95.89	-	0.00	95.89
16MW-18	5/7/1999	100.69	7.14	93.55	-	0.00	93.55
16MW-18	6/1/1999	100.69	7.40	93.29	-	0.00	93.29
16MW-18	6/9/1999	100.69	7.79	92.90	-	0.00	92.90
16MW-18	6/9/1999	100.69	7.77	92.92	-	0.00	92.92
16MW-18	6/10/1999	100.69	7.82	92.87	-	0.00	92.87
16MW-18	6/14/1999	100.69	8.90	91.79	-	0.00	91.79
16MW-18	6/22/1999	100.69	8.12	92.57	-	0.00	92.57
16MW-18	7/29/1999	100.69	9.10	91.59	-	0.00	91.59
16MW-18	8/3/1999	100.69	9.25	91.44	-	0.00	91.44
16MW-18	8/13/1999	100.69	9.38	91.31	-	0.00	91.31
16MW-18	9/3/1999	100.69	6.50	94.19	-	0.00	94.19
16MW-18	9/15/1999	100.69	8.99	91.70	-	0.00	91.70
16MW-18	10/26/1999	100.69	7.15	93.54	7.16	0.01	93.55
16MW-18	11/12/1999	100.69	8.39	92.30	8.41	0.02	92.32
16MW-18	11/18/1999	100.69	8.60	92.09	8.61	0.01	92.10
16MW-18	12/1/1999	100.69	8.41	92.28	8.43	0.02	92.29
16MW-18	12/31/1999	100.69	7.50	93.19	7.78	0.28	93.42
16MW-18	1/26/2000	100.69	8.39	92.30	8.41	0.02	92.32
16MW-18	2/18/2000	100.69	6.17	94.52	6.20	0.03	94.55
16MW-18	4/17/2000	100.69	6.32	94.37	6.37	0.05	94.41
16MW-18	5/4/2000	100.69	6.81	93.88	-	0.00	93.88
16MW-18	8/9/2000	100.69	5.26	95.43	5.27	0.01	95.44
16MW-18	8/24/2000	100.69	7.31	93.38	7.34	0.03	93.40
16MW-18	10/26/2000	100.69	8.35	92.34	8.36	0.01	92.35
16MW-18	11/28/2000	100.69	7.05	93.64	7.06	0.01	93.65
16MW-18	1/16/2001	100.69	7.72	92.97	7.73	0.01	92.97
16MW-18	2/27/2001	100.69	6.40	94.29	-	0.00	94.29

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-18	3/27/2001	100.69	5.20	95.49	-	0.00	95.49
16MW-18	4/19/2001	100.69	5.43	95.26	-	0.00	95.26
16MW-18	5/11/2001	100.69	7.06	93.63	-	0.00	93.63
16MW-18	6/6/2001	100.69	7.68	93.01	7.68	0.00	93.01
16MW-18	8/14/2001	100.69	8.21	92.48	8.24	0.03	92.50
16MW-18	9/14/2001	100.69	8.91	91.78	8.92	0.01	91.79
16MW-18	10/11/2001	100.69	8.48	92.21	-	0.00	92.21
16MW-18	12/13/2001	100.69	8.51	92.18	8.55	0.04	92.22
16MW-18	1/8/2002	100.69	7.95	92.74	8.01	0.06	92.79
16MW-18	1/23/2002	100.69	8.50	92.19	8.56	0.06	92.24
16MW-18	2/28/2002	100.69	8.83	91.86	-	0.00	91.86
16MW-18	3/28/2002	100.69	6.03	94.66	-	0.00	94.66
16MW-18	4/23/2002	100.69	8.23	92.46	-	0.00	92.46
16MW-18	5/15/2002	100.69	6.43	94.26	-	0.00	94.26
16MW-18	6/8/2002	100.69	8.91	91.78	8.92	0.01	91.79
16MW-18	6/27/2002	100.69	8.93	91.76	8.95	0.02	91.77
16MW-18	7/16/2002	100.69	9.30	91.39	9.43	0.13	91.50
16MW-18	8/15/2002	100.69	9.65	91.04	-	0.00	91.04
16MW-18	9/10/2002	100.69	8.42	92.27	8.43	0.01	92.27
16MW-18	10/18/2002	100.69	5.91	94.78	-	0.00	94.78
16MW-18	11/14/2002	100.69	6.91	93.78	-	0.00	93.78
16MW-18	11/26/2002	100.69	6.21	94.48	-	0.00	94.48
16MW-18	12/16/2002	100.69	5.91	94.78	-	0.00	94.78
16MW-18	1/28/2003	100.69	7.28	93.41	-	0.00	93.41
16MW-18	2/26/2003	100.69	5.56	95.13	-	0.00	95.13
16MW-18	3/31/2003	100.69	5.86	94.83	-	0.00	94.83
16MW-18	4/29/2003	100.69	6.00	94.69	-	0.00	94.69
16MW-18	5/23/2003	100.69	7.05	93.64	-	0.00	93.64
16MW-18	6/26/2003	100.69	4.91	95.78	-	0.00	95.78
16MW-18	8/1/2003	100.69	7.02	93.67	-	0.00	93.67
16MW-18	8/26/2003	100.69	7.49	93.20	-	0.00	93.20
16MW-18	9/17/2003	100.69	7.29	93.40	-	0.00	93.40
16MW-18	10/28/2003	100.69	7.84	92.85	-	0.00	92.85
16MW-18	11/11/2003	100.69	6.20	94.49	6.21	0.01	94.50
16MW-18	12/30/2003	100.69	5.95	94.74	5.96	0.01	94.75
16MW-18	1/16/2004	100.69	6.98	93.71	6.99	0.01	93.72
16MW-18	2/18/2004	100.69	6.20	94.49	6.21	0.01	94.50
16MW-18	3/24/2004	100.69	5.61	95.08	5.55	0.06	95.13
16MW-18	4/5/2004	100.69	5.03	95.66	4.95	0.08	95.73
16MW-18	5/5/2004	100.69	5.42	95.27	-	0.00	95.27
16MW-18	6/29/2004	100.69	7.60	93.09	-	0.00	93.09
16MW-18	7/27/2004	100.69	7.10	93.59	-	0.00	93.59
16MW-18	8/18/2004	100.69	7.40	93.29	-	0.00	93.29
16MW-18	9/1/2004	100.69	8.49	92.20	-	0.00	92.20
16MW-18	10/19/2004	100.69	8.18	92.51	-	0.00	92.51
16MW-18	11/23/2004	100.69	7.79	92.90	7.71	0.08	92.97
16MW-18	12/16/2004	100.69	5.96	94.73	5.83	0.13	94.84
16MW-18	1/12/2005	100.69	5.91	94.78	5.76	0.15	94.91

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-18	2/17/2005	100.69	5.45	95.24	5.39	0.06	95.29
16MW-18	3/2/2005	100.69	6.35	94.34	6.26	0.09	94.42
16MW-18	4/5/2005	100.69	5.17	95.52	5.08	0.09	95.60
16MW-18	5/13/2005	100.69	5.62	95.07	5.51	0.11	95.16
16MW-18	6/8/2005	100.69	6.96	93.73	-	0.00	93.73
16MW-18	7/27/2005	100.69	7.46	93.23	7.45	0.01	93.24
16MW-18	8/17/2005	100.69	8.45	92.24	-	0.00	92.24
16MW-18	9/21/2005	100.69	9.05	91.64	-	0.00	91.64
16MW-18	10/5/2005	100.69	9.30	91.39	-	0.00	91.39
16MW-18	11/9/2005	100.69	6.80	93.89	-	0.00	93.89
16MW-19	8/20/1997	100.54	7.70	92.84	-	0.00	92.84
16MW-19	10/6/1997	100.54	10.29	90.25	10.91	0.62	90.78
16MW-19	12/12/1997	100.54	12.02	88.52	13.15	1.13	89.48
16MW-19	1/7/1998	100.54	10.00	90.54	10.83	0.83	91.24
16MW-19	1/15/1998	100.54	7.03	93.51	7.21	0.18	93.67
16MW-19	2/10/1998	100.54	6.07	94.47	6.16	0.09	94.55
16MW-19	2/24/1998	100.54	5.10	95.44	-	0.00	95.44
16MW-19	3/3/1998	100.54	5.35	95.19	5.37	0.02	95.20
16MW-19	3/12/1998	100.54	4.91	95.63	4.93	0.02	95.64
16MW-19	3/13/1998	100.54	5.05	95.49	-	0.00	95.49
16MW-19	3/26/1998	100.54	4.98	95.56	-	0.00	95.56
16MW-19	4/3/1998	100.54	5.31	95.23	-	0.00	95.23
16MW-19	4/9/1998	100.54	5.54	95.00	5.55	0.01	95.01
16MW-19	4/17/1998	100.54	5.15	95.39	5.19	0.04	95.42
16MW-19	4/24/1998	100.54	4.95	95.59	4.97	0.02	95.61
16MW-19	5/5/1998	100.54	4.73	95.81	4.77	0.04	95.85
16MW-19	5/15/1998	100.54	3.60	96.94	3.61	0.01	96.95
16MW-19	7/30/1998	100.54	7.12	93.42	7.23	0.11	93.51
16MW-19	8/7/1998	100.54	6.97	93.57	6.97	0.00	93.57
16MW-19	8/13/1998	100.54	7.22	93.32	7.23	0.01	93.32
16MW-19	8/21/1998	100.54	7.41	93.13	-	0.00	93.13
16MW-19	9/3/1998	100.54	7.55	92.99	-	0.00	92.99
16MW-19	9/10/1998	100.54	8.53	92.01	8.55	0.02	92.03
16MW-19	10/2/1998	100.54	7.69	92.85	7.70	0.01	92.86
16MW-19	10/20/1998	100.54	7.90	92.64	7.91	0.01	92.65
16MW-19	11/6/1998	100.54	8.17	92.37	8.18	0.01	92.38
16MW-19	12/3/1998	100.54	7.95	92.59	-	0.00	92.59
16MW-19	12/30/1998	100.54	8.09	92.45	8.11	0.02	92.46
16MW-19	1/26/1999	100.54	5.81	94.73	5.85	0.04	94.76
16MW-19	3/9/1999	100.54	6.52	94.02	6.55	0.03	94.05
16MW-19	3/19/1999	100.54	6.20	94.34	6.25	0.05	94.38
16MW-19	4/20/1999	100.54	6.60	93.94	6.61	0.01	93.95
16MW-19	5/7/1999	100.54	7.11	93.43	7.14	0.03	93.45
16MW-19	6/1/1999	100.54	7.25	93.29	7.28	0.03	93.31
16MW-19	6/9/1999	100.54	6.94	93.60	-	0.00	93.60
16MW-19	6/9/1999	100.54	7.71	92.83	7.74	0.03	92.86
16MW-19	6/10/1999	100.54	7.68	92.86	-	0.00	92.86

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-19	6/14/1999	100.54	7.80	92.74	7.81	0.01	92.75
16MW-19	6/22/1999	100.54	8.01	92.53	8.04	0.03	92.55
16MW-19	7/29/1999	100.54	9.01	91.53	9.06	0.05	91.57
16MW-19	8/3/1999	100.54	9.14	91.40	9.20	0.06	91.45
16MW-19	8/13/1999	100.54	9.05	91.49	-	0.00	91.49
16MW-19	9/3/1999	100.54	9.07	91.47	9.21	0.14	91.59
16MW-19	9/15/1999	100.54	8.99	91.55	9.01	0.02	91.57
16MW-19	10/26/1999	100.54	9.35	91.19	9.77	0.42	91.54
16MW-19	11/2/1999	100.54	9.99	90.55	10.46	0.47	90.95
16MW-19	11/12/1999	100.54	8.45	92.09	8.46	0.01	92.10
16MW-19	11/18/1999	100.54	8.59	91.95	-	0.00	91.95
16MW-19	12/1/1999	100.54	8.35	92.19	8.36	0.01	92.20
16MW-19	12/31/1999	100.54	8.07	92.47	8.11	0.04	92.50
16MW-19	1/26/2000	100.54	8.36	92.18	8.37	0.01	92.19
16MW-19	2/18/2000	100.54	7.51	93.03	7.52	0.01	93.04
16MW-19	4/17/2000	100.54	7.52	93.02	-	0.00	93.02
16MW-19	5/4/2000	100.54	7.22	93.32	7.28	0.06	93.37
16MW-19	8/9/2000	100.54	7.30	93.24	7.52	0.22	93.42
16MW-19	8/24/2000	100.54	8.00	92.54	8.06	0.06	92.59
16MW-19	10/26/2000	100.54	8.77	91.77	8.86	0.09	91.84
16MW-19	11/28/2000	100.54	8.32	92.22	8.38	0.06	92.27
16MW-19	1/16/2001	100.54	8.60	91.94	8.78	0.18	92.09
16MW-19	2/27/2001	100.54	7.37	93.17	-	0.00	93.17
16MW-19	3/27/2001	100.54	6.20	94.34	6.28	0.08	94.41
16MW-19	4/19/2001	100.54	6.40	94.14	6.51	0.11	94.23
16MW-19	5/11/2001	100.54	7.48	93.06	7.60	0.12	93.16
16MW-19	6/6/2001	100.54	7.57	92.97	7.67	0.10	93.05
16MW-19	8/14/2001	100.54	7.30	93.24	7.35	0.05	93.28
16MW-19	9/14/2001	100.54	9.12	91.42	9.24	0.12	91.52
16MW-19	10/11/2001	100.54	8.97	91.57	9.01	0.04	91.60
16MW-19	11/13/2001	100.54	9.10	91.44	9.13	0.03	91.47
16MW-19	12/13/2001	100.54	8.97	91.57	9.01	0.04	91.60
16MW-19	1/8/2002	100.54	8.93	91.61	8.99	0.06	91.66
16MW-19	1/23/2002	100.54	8.82	91.72	8.84	0.02	91.73
16MW-19	2/28/2002	100.54	8.98	91.56	-	0.00	91.56
16MW-19	3/28/2002	100.54	8.00	92.54	8.09	0.09	92.61
16MW-19	4/23/2002	100.54	8.58	91.96	8.61	0.03	91.98
16MW-19	5/15/2002	100.54	8.20	92.34	8.26	0.06	92.39
16MW-19	6/8/2002	100.54	8.55	91.99	8.58	0.03	92.01
16MW-19	6/27/2002	100.54	8.57	91.97	8.59	0.02	91.99
16MW-19	7/16/2002	100.54	9.26	91.28	9.28	0.02	91.29
16MW-19	8/15/2002	100.54	9.52	91.02	-	0.00	91.02
16MW-19	9/10/2002	100.54	8.70	91.84	8.71	0.01	91.85
16MW-19	10/18/2002	100.54	6.91	93.63	6.91	0.00	93.63
16MW-19	11/14/2002	100.54	7.57	92.97	7.58	0.01	92.97
16MW-19	11/26/2002	100.54	7.18	93.36	-	0.00	93.36
16MW-19	12/16/2002	100.54	6.90	93.64	6.93	0.03	93.66
16MW-19	1/28/2003	100.54	7.31	93.23	7.31	0.00	93.23

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-19	2/26/2003	100.54	6.43	94.11	6.49	0.06	94.16
16MW-19	3/31/2003	100.54	6.25	94.29	6.26	0.01	94.30
16MW-19	4/29/2003	100.54	6.32	94.22	6.34	0.02	94.23
16MW-19	5/23/2003	100.54	7.08	93.46	7.11	0.03	93.48
16MW-19	6/26/2003	100.54	5.56	94.98	-	0.00	94.98
16MW-19	8/1/2003	100.54	7.28	93.26	7.33	0.05	93.30
16MW-19	8/26/2003	100.54	7.37	93.17	7.38	0.01	93.17
16MW-19	9/17/2003	100.54	7.65	92.89	-	0.00	92.89
16MW-19	10/28/2003	100.54	8.12	92.42	8.20	0.08	92.48
16MW-19	12/30/2003	100.54	6.46	94.08	-	0.00	94.08
16MW-19	1/16/2004	100.54	7.10	93.44	7.12	0.02	93.45
16MW-19	2/18/2004	100.54	6.63	93.91	6.66	0.03	93.93
16MW-19	3/24/2004	100.54	6.40	94.14	6.22	0.18	94.29
16MW-19	4/5/2004	100.54	5.98	94.56	5.96	0.02	94.58
16MW-19	5/5/2004	100.54	6.15	94.39	-	0.00	94.39
16MW-19	6/29/2004	100.54	7.57	92.97	7.54	0.03	93.00
16MW-19	7/27/2004	100.54	7.50	93.04	-	0.00	93.04
16MW-19	8/18/2004	100.54	7.73	92.81	7.59	0.14	92.93
16MW-19	9/1/2004	100.54	7.41	93.13	7.40	0.01	93.14
16MW-19	10/19/2004	100.54	8.00	92.54	-	0.00	92.54
16MW-19	11/23/2004	100.54	7.63	92.91	7.48	0.15	93.04
16MW-19	12/16/2004	100.54	7.39	93.15	6.46	0.93	93.94
16MW-19	1/12/2005	100.54	7.25	93.29	6.61	0.64	93.84
16MW-19	3/2/2005	100.54	7.41	93.13	6.34	1.07	94.04
16MW-19	4/5/2005	100.54	6.49	94.05	5.39	1.10	94.99
16MW-19	5/13/2005	100.54	6.32	94.22	5.46	0.86	94.95
16MW-19	6/8/2005	100.54	6.61	93.93	-	0.00	93.93
16MW-19	7/27/2005	100.54	7.40	93.14	-	0.00	93.14
16MW-19	8/17/2005	100.54	8.30	92.24	-	0.00	92.24
16MW-19	9/21/2005	100.54	8.80	91.74	-	0.00	91.74
16MW-19	10/5/2005	100.54	9.01	91.53	9.00	0.01	91.54
16MW-19	11/9/2005	100.54	7.00	93.54	-	0.00	93.54
16MW-20	8/20/1997	100.82	9.88	90.94	10.33	0.45	91.32
16MW-20	10/6/1997	100.82	10.22	90.60	10.68	0.46	90.99
16MW-20	12/12/1997	100.82	10.55	90.27	11.16	0.61	90.79
16MW-20	1/7/1998	100.82	10.36	90.46	11.06	0.70	91.05
16MW-20	1/22/1998	100.82	10.50	90.32	11.27	0.77	90.97
16MW-20	2/10/1998	100.82	7.71	93.11	7.86	0.15	93.24
16MW-20	2/24/1998	100.82	6.80	94.02	6.88	0.08	94.09
16MW-20	3/3/1998	100.82	6.85	93.97	6.92	0.07	94.03
16MW-20	3/12/1998	100.82	6.37	94.45	6.39	0.02	94.47
16MW-20	3/13/1998	100.82	6.43	94.39	6.45	0.02	94.41
16MW-20	3/26/1998	100.82	6.21	94.61	6.21	0.00	94.61
16MW-20	4/3/1998	100.82	6.60	94.22	6.64	0.04	94.25
16MW-20	4/9/1998	100.82	6.68	94.14	6.70	0.02	94.16
16MW-20	4/17/1998	100.82	6.49	94.33	6.50	0.01	94.34
16MW-20	4/24/1998	100.82	6.48	94.34	6.51	0.03	94.36

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-20	5/5/1998	100.82	5.70	95.12	5.76	0.06	95.17
16MW-20	5/15/1998	100.82	5.54	95.29	5.59	0.06	95.33
16MW-20	7/30/1998	100.82	8.98	91.84	9.35	0.37	92.15
16MW-20	8/7/1998	100.82	8.11	92.71	8.16	0.05	92.75
16MW-20	8/13/1998	100.82	8.29	92.53	8.34	0.05	92.57
16MW-20	8/21/1998	100.82	8.40	92.42	8.45	0.05	92.46
16MW-20	9/3/1998	100.82	8.65	92.17	8.71	0.06	92.22
16MW-20	9/10/1998	100.82	8.48	92.34	8.50	0.02	92.36
16MW-20	10/2/1998	100.82	8.73	92.09	8.78	0.05	92.13
16MW-20	10/20/1998	100.82	8.66	92.16	-	0.00	92.16
16MW-20	11/6/1998	100.82	8.79	92.03	-	0.00	92.03
16MW-20	12/3/1998	100.82	9.03	91.79	9.09	0.06	91.84
16MW-20	1/26/1999	100.82	7.70	93.12	7.73	0.03	93.14
16MW-20	2/10/1999	100.82	8.05	92.77	8.10	0.05	92.81
16MW-20	3/9/1999	100.82	7.95	92.87	7.98	0.03	92.89
16MW-20	3/19/1999	100.82	7.66	93.16	7.67	0.01	93.17
16MW-20	4/20/1999	100.82	7.70	93.12	7.71	0.01	93.12
16MW-20	5/7/1999	100.82	7.91	92.91	7.93	0.02	92.92
16MW-20	6/1/1999	100.82	8.36	92.46	8.40	0.04	92.49
16MW-20	6/9/1999	100.82	8.80	92.02	8.88	0.08	92.09
16MW-20	6/10/1999	100.82	7.72	93.10	7.77	0.05	93.14
16MW-20	6/14/1999	100.82	8.85	91.97	8.94	0.09	92.04
16MW-20	6/22/1999	100.82	8.59	92.23	8.68	0.09	92.30
16MW-20	7/29/1999	100.82	9.40	91.42	-	0.00	91.42
16MW-20	8/3/1999	100.82	10.25	90.57	10.44	0.19	90.73
16MW-20	9/3/1999	100.82	9.45	91.37	9.47	0.02	91.38
16MW-20	9/15/1999	100.82	9.72	91.10	9.79	0.07	91.16
16MW-20	11/2/1999	100.82	10.08	90.74	10.40	0.32	91.01
16MW-20	11/12/1999	100.82	9.17	91.65	9.20	0.03	91.68
16MW-20	11/18/1999	100.82	9.40	91.42	-	0.00	91.42
16MW-20	12/1/1999	100.82	9.31	91.51	9.39	0.08	91.58
16MW-20	12/31/1999	100.82	8.84	91.98	8.87	0.03	92.01
16MW-20	1/26/2000	100.82	9.28	91.54	9.37	0.09	91.62
16MW-20	2/18/2000	100.82	8.82	92.00	8.88	0.06	92.05
16MW-20	4/17/2000	100.82	9.21	91.61	9.48	0.27	91.84
16MW-20	5/4/2000	100.82	8.05	92.77	8.27	0.22	92.96
16MW-20	8/9/2000	100.82	8.32	92.50	8.34	0.02	92.52
16MW-20	8/24/2000	100.82	7.70	93.12	-	0.00	93.12
16MW-20	10/26/2000	100.82	9.21	91.61	9.25	0.04	91.64
16MW-20	1/16/2001	100.82	9.15	91.67	9.31	0.16	91.81
16MW-20	2/27/2001	100.82	8.40	92.42	8.50	0.10	92.50
16MW-20	3/27/2001	100.82	7.80	93.02	7.93	0.13	93.13
16MW-20	4/19/2001	100.82	7.77	93.05	7.94	0.17	93.20
16MW-20	5/11/2001	100.82	8.88	91.94	9.22	0.34	92.23
16MW-20	6/6/2001	100.82	9.85	90.97	10.37	0.52	91.41
16MW-20	8/14/2001	100.82	10.59	90.23	11.12	0.53	90.68
16MW-20	9/14/2001	100.82	10.80	90.02	11.24	0.44	90.40
16MW-20	10/11/2001	100.82	9.62	91.20	9.69	0.07	91.26

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-20	11/13/2001	100.82	9.73	91.09	9.79	0.06	91.14
16MW-20	12/13/2001	100.82	9.67	91.15	9.75	0.08	91.21
16MW-20	1/8/2002	100.82	9.81	91.01	9.97	0.16	91.14
16MW-20	1/23/2002	100.82	9.63	91.19	9.73	0.10	91.28
16MW-20	2/28/2002	100.82	9.69	91.13	9.74	0.05	91.17
16MW-20	3/28/2002	100.82	8.75	92.07	8.76	0.01	92.07
16MW-20	4/23/2002	100.82	9.30	91.52	9.37	0.07	91.58
16MW-20	5/15/2002	100.82	9.14	91.68	9.26	0.12	91.78
16MW-20	6/8/2002	100.82	9.19	91.63	9.22	0.03	91.65
16MW-20	6/27/2002	100.82	9.45	91.37	9.56	0.11	91.47
16MW-20	7/16/2002	100.82	9.75	91.07	-	0.00	91.07
16MW-20	8/15/2002	100.82	10.13	90.69	10.14	0.01	90.70
16MW-20	9/10/2002	100.82	9.60	91.22	9.67	0.07	91.28
16MW-20	10/18/2002	100.82	5.70	95.12	-	0.00	95.12
16MW-20	11/14/2002	100.82	8.60	92.22	-	0.00	92.22
16MW-20	11/26/2002	100.82	8.40	92.42	8.43	0.03	92.44
16MW-20	12/16/2002	100.82	8.30	92.52	8.36	0.06	92.57
16MW-20	1/28/2003	100.82	8.23	92.59	8.26	0.03	92.62
16MW-20	2/26/2003	100.82	7.76	93.06	7.83	0.07	93.12
16MW-20	3/31/2003	100.82	7.51	93.31	7.54	0.03	93.34
16MW-20	4/29/2003	100.82	7.98	92.84	8.17	0.19	93.00
16MW-20	5/23/2003	100.82	8.10	92.72	8.20	0.10	92.81
16MW-20	6/26/2003	100.82	6.91	93.91	6.94	0.03	93.93
16MW-20	8/1/2003	100.82	8.15	92.67	8.21	0.06	92.72
16MW-20	8/26/2003	100.82	8.70	92.12	8.83	0.13	92.23
16MW-20	9/17/2003	100.82	8.68	92.14	-	0.00	92.14
16MW-20	10/28/2003	100.82	8.45	92.37	8.46	0.01	92.38
16MW-20	12/30/2003	100.82	7.49	93.33	7.51	0.02	93.34
16MW-20	2/18/2004	100.82	7.73	93.09	7.74	0.01	93.10
16MW-20	3/24/2004	100.82	7.51	93.31	7.38	0.13	93.42
16MW-20	4/5/2004	100.82	7.15	93.67	7.09	0.06	93.72
16MW-20	5/5/2004	100.82	6.87	93.95	-	0.00	93.95
16MW-20	6/29/2004	100.82	8.16	92.66	-	0.00	92.66
16MW-20	7/27/2004	100.82	8.20	92.62	-	0.00	92.62
16MW-20	8/18/2004	100.82	8.55	92.27	8.45	0.10	92.36
16MW-20	9/1/2004	100.82	8.67	92.15	8.65	0.02	92.17
16MW-20	10/19/2004	100.82	8.49	92.33	-	0.00	92.33
16MW-20	11/23/2004	100.82	8.52	92.30	8.41	0.11	92.39
16MW-20	12/16/2004	100.82	8.01	92.81	7.85	0.16	92.95
16MW-20	1/12/2005	100.82	7.98	92.84	7.82	0.16	92.98
16MW-20	2/17/2005	100.82	7.82	93.00	7.53	0.29	93.25
16MW-20	3/2/2005	100.82	7.90	92.92	7.61	0.29	93.17
16MW-20	4/5/2005	100.82	7.32	93.50	6.87	0.45	93.88
16MW-20	5/13/2005	100.82	7.56	93.26	7.11	0.45	93.64
16MW-20	6/8/2005	100.82	8.19	92.63	7.62	0.57	93.12
16MW-20	7/27/2005	100.82	8.75	92.07	8.30	0.45	92.45
16MW-20	8/17/2005	100.82	9.00	91.82	8.90	0.10	91.91
16MW-20	9/21/2005	100.82	9.45	91.37	-	0.00	91.37

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-20	10/5/2005	100.82	9.60	91.22	-	0.00	91.22
16MW-20	11/9/2005	100.82	7.80	93.02	7.70	0.10	93.11
16MW-21	8/20/1997	99.78	7.57	92.21	-	0.00	92.21
16MW-21	10/6/1997	99.78	7.80	91.98	-	0.00	91.98
16MW-21	12/12/1997	99.78	7.70	92.08	-	0.00	92.08
16MW-21	1/7/1998	99.78	7.12	92.66	-	0.00	92.66
16MW-21	2/10/1998	99.78	6.00	93.78	-	0.00	93.78
16MW-21	2/24/1998	99.78	5.67	94.11	-	0.00	94.11
16MW-21	3/3/1998	99.78	5.40	94.38	-	0.00	94.38
16MW-21	3/12/1998	99.78	5.03	94.75	-	0.00	94.75
16MW-21	3/13/1998	99.78	5.17	94.61	-	0.00	94.61
16MW-21	3/26/1998	99.78	4.90	94.88	-	0.00	94.88
16MW-21	4/3/1998	99.78	5.25	94.53	-	0.00	94.53
16MW-21	4/9/1998	99.78	5.55	94.23	-	0.00	94.23
16MW-21	4/17/1998	99.78	5.10	94.68	-	0.00	94.68
16MW-21	4/24/1998	99.78	5.93	93.85	-	0.00	93.85
16MW-21	5/5/1998	99.78	4.88	94.90	-	0.00	94.90
16MW-21	5/15/1998	99.78	4.10	95.68	-	0.00	95.68
16MW-21	7/30/1998	99.78	6.95	92.83	-	0.00	92.83
16MW-21	8/7/1998	99.78	7.21	92.57	-	0.00	92.57
16MW-21	8/13/1998	99.78	7.41	92.37	-	0.00	92.37
16MW-21	8/21/1998	99.78	7.51	92.27	-	0.00	92.27
16MW-21	9/3/1998	99.78	7.57	92.21	-	0.00	92.21
16MW-21	9/10/1998	99.78	7.70	92.08	-	0.00	92.08
16MW-21	10/2/1998	99.78	7.77	92.01	-	0.00	92.01
16MW-21	10/20/1998	99.78	7.86	91.92	-	0.00	91.92
16MW-21	11/6/1998	99.78	0.00	99.78	-	0.00	99.78
16MW-21	12/3/1998	99.78	8.00	91.78	-	0.00	91.78
16MW-21	1/26/1999	99.78	5.05	94.73	-	0.00	94.73
16MW-21	3/9/1999	99.78	6.57	93.21	-	0.00	93.21
16MW-21	3/19/1999	99.78	5.56	94.22	-	0.00	94.22
16MW-21	4/20/1999	99.78	6.40	93.38	-	0.00	93.38
16MW-21	5/7/1999	99.78	7.05	92.73	-	0.00	92.73
16MW-21	6/1/1999	99.78	7.45	92.33	-	0.00	92.33
16MW-21	6/9/1999	99.78	7.15	92.63	-	0.00	92.63
16MW-21	6/14/1999	99.78	7.77	92.01	-	0.00	92.01
16MW-21	6/22/1999	99.78	7.00	92.78	-	0.00	92.78
16MW-21	7/29/1999	99.78	8.75	91.03	-	0.00	91.03
16MW-21	8/3/1999	99.78	8.89	90.89	-	0.00	90.89
16MW-21	9/15/1999	99.78	8.70	91.08	-	0.00	91.08
16MW-21	11/18/1999	99.78	8.33	91.45	-	0.00	91.45
16MW-21	2/18/2000	99.78	7.51	92.27	-	0.00	92.27
16MW-21	4/17/2000	99.78	7.35	92.43	-	0.00	92.43
16MW-21	5/4/2000	99.78	7.20	92.58	-	0.00	92.58
16MW-21	8/9/2000	99.78	6.20	93.58	-	0.00	93.58
16MW-21	8/24/2000	99.78	7.88	91.90	-	0.00	91.90
16MW-21	10/26/2000	99.78	8.30	91.48	-	0.00	91.48

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-21	1/16/2001	99.78	7.80	91.98	-	0.00	91.98
16MW-21	2/27/2001	99.78	7.27	92.51	-	0.00	92.51
16MW-21	3/27/2001	99.78	5.65	94.13	-	0.00	94.13
16MW-21	4/19/2001	99.78	5.70	94.08	-	0.00	94.08
16MW-21	5/11/2001	99.78	6.95	92.83	-	0.00	92.83
16MW-21	6/6/2001	99.78	7.19	92.59	-	0.00	92.59
16MW-21	8/14/2001	99.78	8.00	91.78	-	0.00	91.78
16MW-21	9/14/2001	99.78	8.51	91.27	-	0.00	91.27
16MW-21	10/11/2001	99.78	8.59	91.19	-	0.00	91.19
16MW-21	11/13/2001	99.78	8.74	91.04	-	0.00	91.04
16MW-21	12/13/2001	99.78	8.58	91.20	-	0.00	91.20
16MW-21	1/8/2002	99.78	8.41	91.37	-	0.00	91.37
16MW-21	1/22/2002	99.78	7.06	92.72	-	0.00	92.72
16MW-21	1/23/2002	99.78	8.46	91.32	-	0.00	91.32
16MW-21	2/28/2002	99.78	8.69	91.09	-	0.00	91.09
16MW-21	3/28/2002	99.78	5.86	93.92	-	0.00	93.92
16MW-21	4/23/2002	99.78	8.22	91.56	-	0.00	91.56
16MW-21	5/15/2002	99.78	6.17	93.61	-	0.00	93.61
16MW-21	6/8/2002	99.78	8.26	91.52	-	0.00	91.52
16MW-21	6/27/2002	99.78	8.05	91.73	-	0.00	91.73
16MW-21	7/16/2002	99.78	9.00	90.78	-	0.00	90.78
16MW-21	8/15/2002	99.78	9.36	90.42	-	0.00	90.42
16MW-21	9/10/2002	99.78	7.78	92.00	-	0.00	92.00
16MW-21	10/18/2002	99.78	5.75	94.03	5.83	0.08	94.09
16MW-21	11/14/2002	99.78	6.17	93.61	6.18	0.01	93.61
16MW-21	11/26/2002	99.78	6.31	93.47	-	0.00	93.47
16MW-21	12/16/2002	99.78	5.80	93.98	-	0.00	93.98
16MW-21	1/28/2003	99.78	7.21	92.57	-	0.00	92.57
16MW-21	2/26/2003	99.78	5.79	93.99	-	0.00	93.99
16MW-21	3/31/2003	99.78	4.60	95.18	-	0.00	95.18
16MW-21	4/29/2003	99.78	4.70	95.08	-	0.00	95.08
16MW-21	5/23/2003	99.78	6.88	92.90	-	0.00	92.90
16MW-21	6/26/2003	99.78	0.00	99.78	-	0.00	99.78
16MW-21	8/1/2003	99.78	7.00	92.78	-	0.00	92.78
16MW-21	8/26/2003	99.78	7.30	92.48	-	0.00	92.48
16MW-21	9/17/2003	99.78	7.28	92.50	-	0.00	92.50
16MW-21	10/28/2003	99.78	7.61	92.17	-	0.00	92.17
16MW-21	12/30/2003	99.78	6.15	93.63	-	0.00	93.63
16MW-21	2/18/2004	99.78	6.55	93.23	-	0.00	93.23
16MW-21	3/24/2004	99.78	6.10	93.68	-	0.00	93.68
16MW-21	4/5/2004	99.78	4.91	94.87	-	0.00	94.87
16MW-21	5/5/2004	99.78	5.53	94.25	-	0.00	94.25
16MW-21	6/29/2004	99.78	7.58	92.20	-	0.00	92.20
16MW-21	7/27/2004	99.78	7.50	92.28	-	0.00	92.28
16MW-21	8/18/2004	99.78	8.60	91.18	-	0.00	91.18
16MW-21	9/1/2004	99.78	8.80	90.98	8.79	0.01	90.98
16MW-21	10/19/2004	99.78	6.95	92.83	-	0.00	92.83
16MW-21	11/23/2004	99.78	7.50	92.28	-	0.00	92.28

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-21	12/16/2004	99.78	7.08	92.70	-	0.00	92.70
16MW-21	1/12/2005	99.78	7.22	92.56	-	0.00	92.56
16MW-21	2/17/2005	99.78	6.75	93.03	-	0.00	93.03
16MW-21	3/2/2005	99.78	6.89	92.89	-	0.00	92.89
16MW-21	4/5/2005	99.78	6.14	93.64	-	0.00	93.64
16MW-21	5/13/2005	99.78	6.32	93.46	-	0.00	93.46
16MW-21	6/8/2005	99.78	6.92	92.86	-	0.00	92.86
16MW-21	7/27/2005	99.78	7.68	92.10	-	0.00	92.10
16MW-21	8/17/2005	99.78	8.20	91.58	-	0.00	91.58
16MW-21	9/21/2005	99.78	8.70	91.08	-	0.00	91.08
16MW-21	10/5/2005	99.78	8.85	90.93	-	0.00	90.93
16MW-21	11/9/2005	99.78	6.95	92.83	-	0.00	92.83
16MW-22	12/12/1997	102.22	7.70	94.52	-	0.00	94.52
16MW-22	1/7/1998	102.22	5.34	96.88	-	0.00	96.88
16MW-22	2/10/1998	102.22	2.98	99.24	-	0.00	99.24
16MW-22	2/24/1998	102.22	1.60	100.62	-	0.00	100.62
16MW-22	3/3/1998	102.22	2.87	99.35	-	0.00	99.35
16MW-22	3/26/1998	102.22	1.85	100.37	-	0.00	100.37
16MW-22	4/3/1998	102.22	2.05	100.17	-	0.00	100.17
16MW-22	4/17/1998	102.22	2.10	100.12	-	0.00	100.12
16MW-22	4/24/1998	102.22	1.52	100.70	-	0.00	100.70
16MW-22	5/15/1998	102.22	2.86	99.36	-	0.00	99.36
16MW-22	7/30/1998	102.22	6.03	96.19	-	0.00	96.19
16MW-22	8/13/1998	102.22	6.10	96.12	-	0.00	96.12
16MW-22	10/2/1998	102.22	7.78	94.44	-	0.00	94.44
16MW-22	11/6/1998	102.22	8.79	93.43	-	0.00	93.43
16MW-22	1/26/1999	102.22	1.81	100.41	-	0.00	100.41
16MW-22	3/9/1999	102.22	3.45	98.77	-	0.00	98.77
16MW-22	3/19/1999	102.22	8.38	93.84	-	0.00	93.84
16MW-22	4/20/1999	102.22	4.15	98.07	-	0.00	98.07
16MW-22	5/7/1999	102.22	7.05	95.17	-	0.00	95.17
16MW-22	6/1/1999	102.22	5.81	96.41	-	0.00	96.41
16MW-22	6/9/1999	102.22	6.11	96.11	-	0.00	96.11
16MW-22	6/14/1999	102.22	7.57	94.65	7.62	0.05	94.69
16MW-22	6/22/1999	102.22	7.11	95.11	-	0.00	95.11
16MW-22	5/4/2000	102.22	8.86	93.36	-	0.00	93.36
16MW-23	12/12/1997	102.58	9.19	93.39	-	0.00	93.39
16MW-23	1/7/1998	102.58	8.67	93.91	-	0.00	93.91
16MW-23	1/7/1998	102.58	8.67	93.91	-	0.00	93.91
16MW-23	2/10/1998	102.58	7.80	94.78	-	0.00	94.78
16MW-23	2/24/1998	102.58	7.20	95.38	-	0.00	95.38
16MW-23	3/3/1998	102.58	7.10	95.48	-	0.00	95.48
16MW-23	3/26/1998	102.58	6.60	95.98	-	0.00	95.98
16MW-23	4/3/1998	102.58	6.90	95.68	-	0.00	95.68
16MW-23	4/17/1998	102.58	6.95	95.63	-	0.00	95.63
16MW-23	4/24/1998	102.58	6.84	95.74	-	0.00	95.74

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-23	5/15/1998	102.58	5.89	96.69	-	0.00	96.69
16MW-23	7/30/1998	102.58	8.03	94.55	-	0.00	94.55
16MW-23	8/13/1998	102.58	8.46	94.12	-	0.00	94.12
16MW-23	10/2/1998	102.58	9.03	93.55	-	0.00	93.55
16MW-23	1/26/1999	102.58	8.21	94.37	-	0.00	94.37
16MW-23	3/9/1999	102.58	8.53	94.05	-	0.00	94.05
16MW-23	3/19/1999	102.58	8.31	94.27	-	0.00	94.27
16MW-23	4/20/1999	102.58	8.32	94.26	-	0.00	94.26
16MW-23	6/1/1999	102.58	8.80	93.78	-	0.00	93.78
16MW-23	6/9/1999	102.58	9.01	93.57	-	0.00	93.57
16MW-23	6/22/1999	102.58	9.75	92.83	-	0.00	92.83
16MW-23	8/3/1999	102.58	10.00	92.58	-	0.00	92.58
16MW-23	9/15/1999	102.58	10.11	92.47	-	0.00	92.47
16MW-23	4/17/2000	102.58	0.00	102.58	-	0.00	102.58
16MW-23	5/4/2000	102.58	0.00	102.58	-	0.00	102.58
16MW-24	3/27/2001	102.06	8.15	93.91	-	0.00	93.91
16MW-24	4/19/2001	102.06	7.83	94.23	-	0.00	94.23
16MW-24	5/11/2001	102.06	8.49	93.57	-	0.00	93.57
16MW-24	6/6/2001	102.06	8.78	93.28	-	0.00	93.28
16MW-24	8/14/2001	102.06	9.48	92.58	-	0.00	92.58
16MW-24	9/14/2001	102.06	9.93	92.13	-	0.00	92.13
16MW-24	10/11/2001	102.06	10.12	91.94	-	0.00	91.94
16MW-24	11/13/2001	102.06	10.31	91.75	-	0.00	91.75
16MW-24	12/13/2001	102.06	10.23	91.83	-	0.00	91.83
16MW-24	1/8/2002	102.06	10.13	91.93	-	0.00	91.93
16MW-24	1/23/2002	102.06	10.19	91.87	-	0.00	91.87
16MW-24	2/28/2002	102.06	10.34	91.72	-	0.00	91.72
16MW-24	3/28/2002	102.06	9.62	92.44	-	0.00	92.44
16MW-24	4/23/2002	102.06	9.88	92.18	-	0.00	92.18
16MW-24	5/15/2002	102.06	9.63	92.43	-	0.00	92.43
16MW-24	6/8/2002	102.06	9.88	92.18	-	0.00	92.18
16MW-24	6/27/2002	102.06	9.84	92.22	-	0.00	92.22
16MW-24	7/16/2002	102.06	10.43	91.63	-	0.00	91.63
16MW-24	8/15/2002	102.06	10.81	91.25	-	0.00	91.25
16MW-25	3/27/2001	100.92	8.01	92.91	-	0.00	92.91
16MW-25	4/19/2001	100.92	6.20	94.72	-	0.00	94.72
16MW-25	6/6/2001	100.92	7.37	93.55	-	0.00	93.55
16MW-25	8/14/2001	100.92	8.48	92.44	8.50	0.02	92.45
16MW-25	9/14/2001	100.92	8.91	92.01	8.92	0.01	92.02
16MW-25	10/11/2001	100.92	9.08	91.84	9.10	0.02	91.85
16MW-25	11/13/2001	100.92	9.23	91.69	9.24	0.01	91.70
16MW-25	12/13/2001	100.92	9.18	91.74	9.19	0.01	91.75
16MW-25	1/8/2002	100.92	9.07	91.85	9.08	0.01	91.85
16MW-25	1/23/2002	100.92	9.11	91.81	-	0.00	91.81
16MW-25	2/28/2002	100.92	9.28	91.64	-	0.00	91.64
16MW-25	3/28/2002	100.92	8.50	92.42	8.51	0.01	92.43

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-25	4/23/2002	100.92	8.84	92.08	8.85	0.01	92.09
16MW-25	5/15/2002	100.92	8.57	92.35	8.58	0.01	92.36
16MW-25	6/8/2002	100.92	8.81	92.11	8.83	0.02	92.12
16MW-25	6/27/2002	100.92	8.85	92.07	8.88	0.03	92.09
16MW-25	7/16/2002	100.92	10.47	90.45	10.50	0.03	90.47
16MW-25	8/15/2002	100.92	9.76	91.16	9.79	0.03	91.19
16MW-25	9/10/2002	100.92	9.12	91.80	9.15	0.03	91.83
16MW-25	10/18/2002	100.92	8.10	92.82	8.11	0.01	92.83
16MW-25	11/14/2002	100.92	8.40	92.52	8.43	0.03	92.54
16MW-25	11/26/2002	100.92	7.95	92.97	7.99	0.04	93.00
16MW-25	12/16/2002	100.92	7.70	93.22	7.74	0.04	93.25
16MW-25	1/28/2003	100.92	7.85	93.07	7.86	0.01	93.08
16MW-25	2/26/2003	100.92	7.29	93.63	7.34	0.05	93.67
16MW-25	3/31/2003	100.92	6.98	93.94	7.00	0.02	93.96
16MW-25	4/29/2003	100.92	6.86	94.06	-	0.00	94.06
16MW-25	5/23/2003	100.92	7.26	93.66	7.29	0.03	93.68
16MW-25	6/26/2003	100.92	6.46	94.46	6.47	0.01	94.47
16MW-25	8/1/2003	100.92	7.70	93.22	7.74	0.04	93.26
16MW-25	8/26/2003	100.92	8.00	92.92	8.05	0.05	92.96
16MW-25	9/17/2003	100.92	7.68	93.24	7.70	0.02	93.25
16MW-25	10/28/2003	100.92	8.18	92.74	-	0.00	92.74
16MW-25	11/11/2003	100.92	7.98	92.94	8.01	0.03	92.96
16MW-25	12/30/2003	100.92	7.17	93.75	7.19	0.02	93.77
16MW-25	1/16/2004	100.92	7.55	93.37	7.58	0.03	93.39
16MW-25	3/24/2004	100.92	7.14	93.78	7.05	0.09	93.86
16MW-25	4/5/2004	100.92	6.65	94.27	6.57	0.08	94.34
16MW-25	5/5/2004	100.92	6.60	94.32	6.46	0.14	94.44
16MW-25	6/29/2004	100.92	7.94	92.98	7.88	0.06	93.03
16MW-25	7/27/2004	100.92	7.50	93.42	-	0.00	93.42
16MW-25	8/18/2004	100.92	8.06	92.86	8.05	0.01	92.87
16MW-25	9/1/2004	100.92	8.40	92.52	8.30	0.10	92.61
16MW-25	10/19/2004	100.92	8.40	92.52	8.35	0.05	92.56
16MW-25	11/23/2004	100.92	8.25	92.67	8.12	0.13	92.78
16MW-25	12/16/2004	100.92	7.62	93.30	7.52	0.10	93.39
16MW-25	1/12/2005	100.92	7.70	93.22	7.51	0.19	93.38
16MW-25	2/17/2005	100.92	7.28	93.64	7.22	0.06	93.69
16MW-25	3/2/2005	100.92	7.36	93.56	7.29	0.07	93.62
16MW-25	4/5/2005	100.92	6.68	94.24	6.66	0.02	94.26
16MW-25	5/13/2005	100.92	6.56	94.36	-	0.00	94.36
16MW-25	6/8/2005	100.92	7.29	93.63	-	0.00	93.63
16MW-25	7/27/2005	100.92	8.05	92.87	7.97	0.08	92.94
16MW-25	8/17/2005	100.92	8.50	92.42	-	0.00	92.42
16MW-25	9/21/2005	100.92	9.10	91.82	9.00	0.10	91.91
16MW-25	10/5/2005	100.92	9.20	91.72	-	0.00	91.72
16MW-25	11/9/2005	100.92	7.40	93.52	7.35	0.05	93.56
16MW-26	3/27/2001	101.67	8.52	93.15	8.53	0.01	93.15
16MW-26	4/19/2001	101.67	5.82	95.85	-	0.00	95.85

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-26	5/11/2001	101.67	8.41	93.26	8.42	0.01	93.26
16MW-26	6/6/2001	101.67	7.45	94.22	-	0.00	94.22
16MW-26	8/14/2001	101.67	9.22	92.45	-	0.00	92.45
16MW-26	9/14/2001	101.67	9.90	91.77	-	0.00	91.77
16MW-26	10/11/2001	101.67	9.08	92.59	-	0.00	92.59
16MW-26	11/13/2001	101.67	10.38	91.29	-	0.00	91.29
16MW-26	12/13/2001	101.67	9.97	91.70	9.98	0.01	91.70
16MW-26	6/8/2002	101.67	7.50	94.17	-	0.00	94.17
16MW-26	6/27/2002	101.67	6.40	95.27	-	0.00	95.27
16MW-26	8/15/2002	101.67	10.21	91.46	-	0.00	91.46
16MW-26	10/18/2002	101.57	6.00	95.57	-	0.00	95.57
16MW-26	11/14/2002	101.57	6.09	95.48	-	0.00	95.48
16MW-26	11/26/2002	101.57	6.11	95.46	-	0.00	95.46
16MW-26	12/16/2002	101.67	5.56	96.11	-	0.00	96.11
16MW-26	1/28/2003	101.67	7.55	94.12	-	0.00	94.12
16MW-26	2/26/2003	101.67	0.00	101.67	-	0.00	101.67
16MW-26	5/23/2003	101.67	8.10	93.57	-	0.00	93.57
16MW-26	6/26/2003	101.67	4.16	97.51	-	0.00	97.51
16MW-26	8/1/2003	101.67	7.10	94.57	-	0.00	94.57
16MW-26	8/26/2003	101.67	6.80	94.87	-	0.00	94.87
16MW-26	9/17/2003	101.67	6.29	95.38	-	0.00	95.38
16MW-26	10/28/2003	101.67	7.65	94.02	-	0.00	94.02
16MW-26	11/11/2003	101.67	4.98	96.69	-	0.00	96.69
16MW-26	12/30/2003	101.67	4.15	97.52	-	0.00	97.52
16MW-26	2/18/2004	101.67	5.13	96.54	-	0.00	96.54
16MW-26	3/24/2004	101.67	4.35	97.32	-	0.00	97.32
16MW-26	4/5/2004	101.67	3.59	98.08	-	0.00	98.08
16MW-26	5/5/2004	101.67	4.35	97.32	-	0.00	97.32
16MW-26	6/29/2004	101.67	8.64	93.03	-	0.00	93.03
16MW-26	7/27/2004	101.67	8.00	93.67	-	0.00	93.67
16MW-26	8/18/2004	101.67	5.45	96.22	-	0.00	96.22
16MW-26	9/1/2004	101.67	6.50	95.17	-	0.00	95.17
16MW-26	10/19/2004	101.67	7.32	94.35	-	0.00	94.35
16MW-26	11/23/2004	101.67	4.66	97.01	-	0.00	97.01
16MW-26	12/16/2004	101.67	4.21	97.46	-	0.00	97.46
16MW-26	1/12/2005	101.67	4.45	97.22	-	0.00	97.22
16MW-26	2/17/2005	101.67	5.25	96.42	-	0.00	96.42
16MW-26	3/2/2005	101.67	5.30	96.37	-	0.00	96.37
16MW-26	4/5/2005	101.67	5.05	96.62	-	0.00	96.62
16MW-26	5/13/2005	101.67	5.62	96.05	-	0.00	96.05
16MW-26	6/8/2005	101.67	5.81	95.86	-	0.00	95.86
16MW-26	7/27/2005	101.67	5.60	96.07	-	0.00	96.07
16MW-26	8/17/2005	101.67	9.40	92.27	-	0.00	92.27
16MW-26	9/21/2005	101.67	10.16	91.51	-	0.00	91.51
16MW-26	10/5/2005	101.67	10.35	91.32	-	0.00	91.32
16MW-26	11/9/2005	101.67	5.45	96.22	-	0.00	96.22
16MW-27	3/27/2001	100.80	10.22	90.58	10.80	0.58	91.07

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-27	4/19/2001	100.80	9.53	91.27	10.32	0.79	91.95
16MW-27	5/11/2001	100.80	9.63	91.17	10.29	0.66	91.73
16MW-27	6/6/2001	100.80	9.23	91.57	9.78	0.55	92.04
16MW-27	8/14/2001	100.80	9.22	91.58	9.47	0.25	91.79
16MW-27	9/14/2001	100.80	9.67	91.13	9.92	0.25	91.34
16MW-27	10/11/2001	100.80	9.48	91.32	9.63	0.15	91.45
16MW-27	11/13/2001	100.80	10.26	90.54	10.59	0.33	90.82
16MW-27	12/13/2001	100.80	9.79	91.01	10.01	0.22	91.19
16MW-27	1/8/2002	100.80	10.55	90.25	10.95	0.40	90.59
16MW-27	1/23/2002	100.80	10.14	90.66	10.46	0.32	90.93
16MW-27	2/28/2002	100.80	10.40	90.40	10.75	0.35	90.70
16MW-27	3/28/2002	100.80	9.56	91.24	9.88	0.32	91.51
16MW-27	4/23/2002	100.80	9.92	90.88	10.26	0.34	91.17
16MW-27	5/15/2002	100.80	9.25	91.55	9.47	0.22	91.74
16MW-27	6/8/2002	100.80	9.15	91.65	9.26	0.11	91.75
16MW-27	6/27/2002	100.80	9.00	91.80	9.08	0.08	91.86
16MW-27	7/16/2002	100.80	10.36	90.44	10.69	0.33	90.72
16MW-27	8/15/2002	100.80	10.72	90.08	11.94	1.22	91.12
16MW-27	9/10/2002	100.80	7.35	93.45	-	0.00	93.45
16MW-27	10/18/2002	100.80	8.65	92.15	8.79	0.14	92.27
16MW-27	11/14/2002	100.80	8.80	92.00	8.95	0.15	92.12
16MW-27	11/26/2002	100.80	8.70	92.10	8.91	0.21	92.28
16MW-27	12/16/2002	100.80	0.00	100.80	-	0.00	100.80
16MW-27	1/28/2003	100.80	7.65	93.15	7.70	0.05	93.19
16MW-27	2/26/2003	100.80	7.95	92.85	8.24	0.29	93.10
16MW-27	3/31/2003	100.80	7.25	93.55	7.32	0.07	93.61
16MW-27	4/29/2003	100.80	7.10	93.70	7.15	0.05	93.74
16MW-27	5/23/2003	100.80	7.46	93.34	7.56	0.10	93.43
16MW-27	6/26/2003	100.80	6.51	94.29	6.61	0.10	94.38
16MW-27	8/1/2003	100.80	8.16	92.64	8.41	0.25	92.85
16MW-27	8/26/2003	100.80	8.10	92.70	8.19	0.09	92.77
16MW-27	9/17/2003	100.80	7.94	92.86	7.96	0.02	92.88
16MW-27	10/28/2003	100.80	8.25	92.55	8.36	0.11	92.65
16MW-27	12/30/2003	100.80	7.00	93.80	7.06	0.06	93.85
16MW-27	1/16/2004	100.80	7.64	93.16	7.79	0.15	93.29
16MW-27	2/18/2004	100.80	7.25	93.55	7.26	0.01	93.56
16MW-27	4/5/2004	100.80	7.18	93.62	6.75	0.43	93.99
16MW-27	5/5/2004	100.80	7.50	93.30	6.39	1.11	94.25
16MW-27	6/29/2004	100.80	8.08	92.72	7.76	0.32	92.99
16MW-27	7/27/2004	100.80	7.60	93.20	7.50	0.10	93.29
16MW-27	8/18/2004	100.80	8.23	92.57	7.92	0.31	92.83
16MW-27	9/1/2004	100.80	8.30	92.50	8.30	0.00	92.50
16MW-27	10/19/2004	100.80	8.81	91.99	8.10	0.71	92.59
16MW-27	11/23/2004	100.80	8.54	92.26	7.93	0.61	92.78
16MW-27	12/16/2004	100.80	8.87	91.93	7.28	1.59	93.28
16MW-27	1/12/2005	100.80	8.72	92.08	7.30	1.42	93.29
16MW-27	2/17/2005	100.80	8.42	92.38	6.92	1.50	93.66
16MW-27	3/2/2005	100.80	8.59	92.21	6.99	1.60	93.57

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-27	4/5/2005	100.80	6.76	94.04	6.44	0.32	94.31
16MW-27	5/13/2005	100.80	6.96	93.84	6.57	0.39	94.17
16MW-27	6/8/2005	100.80	7.45	93.35	7.15	0.30	93.61
16MW-27	7/27/2005	100.80	7.90	92.90	-	0.00	92.90
16MW-27	8/17/2005	100.80	8.50	92.30	8.40	0.10	92.39
16MW-27	9/21/2005	100.80	8.91	91.89	8.90	0.01	91.90
16MW-27	10/5/2005	100.80	9.10	91.70	-	0.00	91.70
16MW-27	11/9/2005	100.80	7.20	93.60	-	0.00	93.60
16MW-28	3/27/2001	100.62	7.46	93.16	-	0.00	93.16
16MW-28	4/19/2001	100.62	7.85	92.77	7.86	0.01	92.78
16MW-28	5/11/2001	100.62	7.16	93.46	7.82	0.66	94.02
16MW-28	6/6/2001	100.62	7.28	93.34	-	0.00	93.34
16MW-28	8/14/2001	100.62	8.27	92.35	-	0.00	92.35
16MW-28	9/14/2001	100.62	8.62	92.00	-	0.00	92.00
16MW-28	10/11/2001	100.62	8.81	91.81	-	0.00	91.81
16MW-28	11/13/2001	100.62	8.94	91.68	-	0.00	91.68
16MW-28	12/13/2001	100.62	8.87	91.75	-	0.00	91.75
16MW-28	1/8/2002	100.62	9.00	91.62	-	0.00	91.62
16MW-28	1/23/2002	100.62	8.84	91.78	-	0.00	91.78
16MW-28	2/28/2002	100.62	9.01	91.61	-	0.00	91.61
16MW-28	3/28/2002	100.62	8.30	92.32	-	0.00	92.32
16MW-28	4/23/2002	100.62	8.56	92.06	-	0.00	92.06
16MW-28	5/15/2002	100.62	8.29	92.33	-	0.00	92.33
16MW-28	6/8/2002	100.62	8.55	92.07	-	0.00	92.07
16MW-28	7/16/2002	100.62	9.11	91.51	-	0.00	91.51
16MW-28	8/15/2002	100.62	9.48	91.14	-	0.00	91.14
16MW-28	9/10/2002	100.62	8.75	91.87	-	0.00	91.87
16MW-28	10/18/2002	100.62	7.80	92.82	-	0.00	92.82
16MW-28	11/14/2002	100.62	7.85	92.77	-	0.00	92.77
16MW-28	11/26/2002	100.62	7.60	93.02	-	0.00	93.02
16MW-28	12/16/2002	100.62	7.30	93.32	-	0.00	93.32
16MW-28	1/28/2003	100.62	7.40	93.22	-	0.00	93.22
16MW-28	2/26/2003	100.62	7.00	93.62	-	0.00	93.62
16MW-28	3/31/2003	100.62	6.85	93.77	-	0.00	93.77
16MW-28	4/29/2003	100.62	6.65	93.97	-	0.00	93.97
16MW-28	5/23/2003	100.62	7.25	93.37	-	0.00	93.37
16MW-28	9/17/2003	100.62	7.78	92.84	-	0.00	92.84
16MW-28	12/30/2003	100.62	6.78	93.84	-	0.00	93.84
16MW-28	2/18/2004	100.62	7.00	93.62	-	0.00	93.62
16MW-28	3/24/2004	100.62	6.76	93.86	-	0.00	93.86
16MW-28	4/5/2004	100.62	6.02	94.60	-	0.00	94.60
16MW-28	5/5/2004	100.62	6.20	94.42	-	0.00	94.42
16MW-28	6/29/2004	100.62	7.67	92.95	-	0.00	92.95
16MW-28	7/27/2004	100.62	7.50	93.12	-	0.00	93.12
16MW-28	8/18/2004	100.62	7.05	93.57	-	0.00	93.57
16MW-28	9/1/2004	100.62	8.10	92.52	-	0.00	92.52
16MW-28	11/23/2004	100.62	7.88	92.74	-	0.00	92.74

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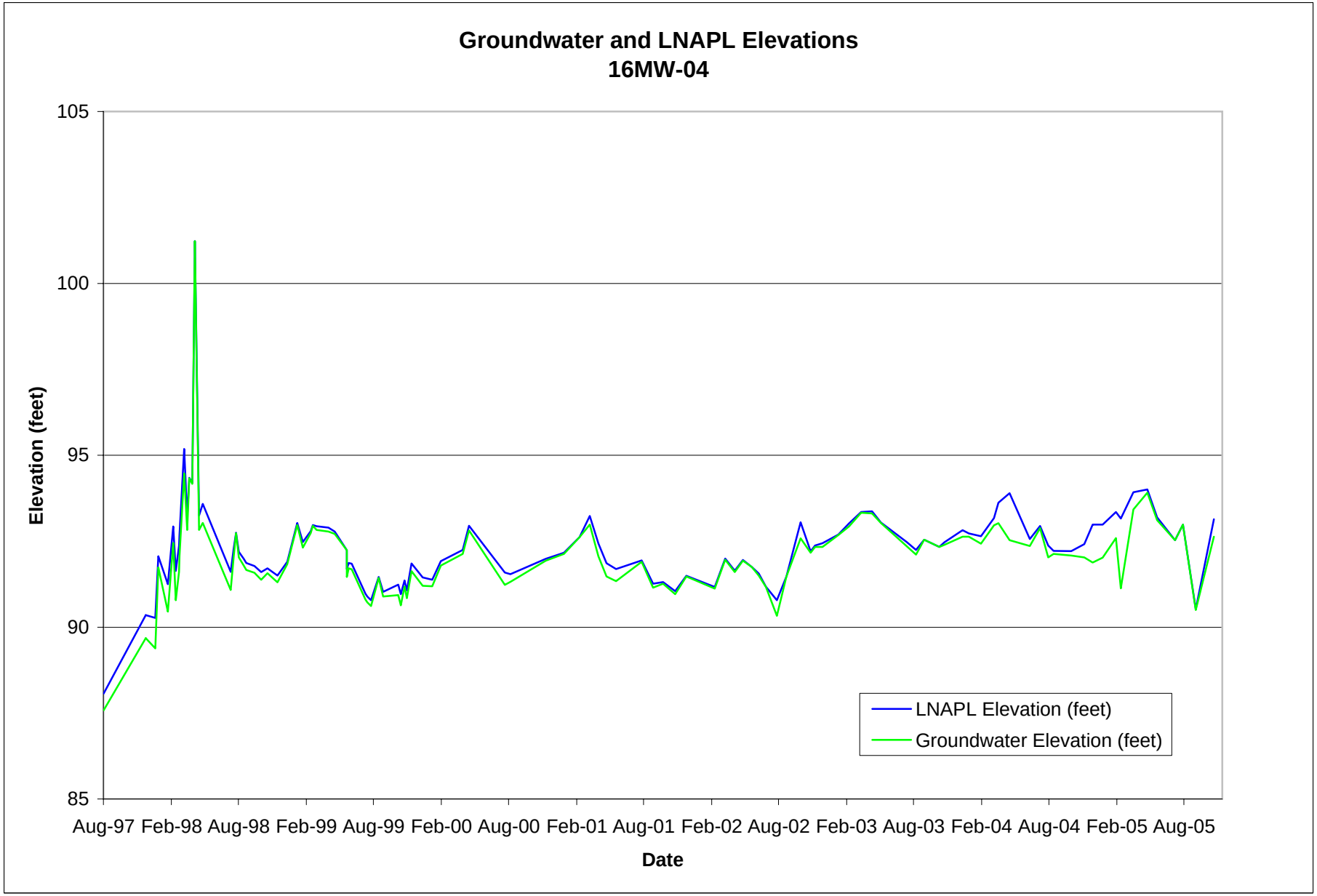
Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-28	4/5/2005	100.62	6.09	94.53	-	0.00	94.53
16MW-28	5/13/2005	100.62	6.56	94.06	-	0.00	94.06
16MW-28	6/8/2005	100.62	7.06	93.56	-	0.00	93.56
16MW-28	7/27/2005	100.62	7.80	92.82	-	0.00	92.82
16MW-28	8/17/2005	100.62	8.30	92.32	-	0.00	92.32
16MW-28	9/21/2005	100.62	8.80	91.82	-	0.00	91.82
16MW-28	10/5/2005	100.62	8.95	91.67	-	0.00	91.67
16MW-28	11/9/2005	100.62	7.10	93.52	-	0.00	93.52
C17MW-07	10/6/1997	100.16	12.03	88.13	13.31	1.28	89.22
C17MW-07	12/12/1997	100.16	11.69	88.47	12.95	1.26	89.54
C17MW-07	1/7/1998	100.16	11.78	88.38	13.20	1.42	89.59
C17MW-07	1/15/1998	100.16	7.95	92.21	8.27	0.32	92.48
C17MW-07	2/10/1998	100.16	9.05	91.11	9.89	0.84	91.82
C17MW-07	2/24/1998	100.16	6.00	94.16	6.15	0.15	94.29
C17MW-07	3/3/1998	100.16	5.89	94.27	6.38	0.49	94.69
C17MW-07	3/12/1998	100.16	5.99	94.17	6.17	0.18	94.32
C17MW-07	3/13/1998	100.16	5.96	94.20	6.10	0.14	94.32
C17MW-07	3/26/1998	100.16	5.35	94.81	5.36	0.01	94.82
C17MW-07	4/3/1998	100.16	5.90	94.26	5.99	0.09	94.34
C17MW-07	4/9/1998	100.16	6.02	94.14	6.10	0.08	94.21
C17MW-07	4/17/1998	100.16	5.99	94.17	6.11	0.12	94.27
C17MW-07	4/24/1998	100.16	5.90	94.26	6.03	0.13	94.37
C17MW-07	5/5/1998	100.16	6.50	93.66	6.78	0.28	93.90
C17MW-07	5/15/1998	100.16	5.50	94.66	5.72	0.22	94.85
C17MW-07	7/30/1998	100.16	10.61	89.55	11.73	1.12	90.50
C17MW-07	8/7/1998	100.16	7.80	92.36	8.05	0.25	92.57
C17MW-07	8/13/1998	100.16	7.61	92.55	7.72	0.11	92.65
C17MW-07	8/21/1998	100.16	7.27	92.89	7.39	0.11	92.98
C17MW-07	9/3/1998	100.16	7.76	92.40	7.91	0.15	92.53
C17MW-07	9/10/1998	100.16	7.42	92.75	7.50	0.09	92.82
C17MW-07	10/2/1998	100.16	8.16	92.00	8.37	0.21	92.17
C17MW-07	10/20/1998	100.16	7.88	92.28	7.98	0.10	92.37
C17MW-07	12/3/1998	100.16	7.96	92.20	8.04	0.08	92.27
C17MW-07	12/30/1998	100.16	8.03	92.13	8.15	0.12	92.23
C17MW-07	1/26/1999	100.16	6.65	93.51	6.75	0.10	93.59
C17MW-07	2/10/1999	100.16	7.20	92.96	7.37	0.17	93.11
C17MW-07	3/9/1999	100.16	6.95	93.21	7.06	0.11	93.31
C17MW-07	3/19/1999	100.16	6.46	93.70	6.54	0.08	93.77
C17MW-07	4/20/1999	100.16	6.92	93.24	7.03	0.11	93.33
C17MW-07	5/7/1999	100.16	7.00	93.16	7.08	0.08	93.22
C17MW-07	6/1/1999	100.16	7.61	92.55	7.75	0.14	92.67
C17MW-07	6/9/1999	100.16	7.20	92.96	-	0.00	92.96
C17MW-07	6/9/1999	100.16	8.39	91.77	8.67	0.28	92.00
C17MW-07	6/10/1999	100.16	7.93	92.23	8.06	0.13	92.34
C17MW-07	6/14/1999	100.16	8.25	91.91	8.47	0.22	92.10
C17MW-07	6/22/1999	100.16	8.55	91.61	8.87	0.32	91.88
C17MW-07	7/29/1999	100.16	10.40	89.76	11.00	0.60	90.27

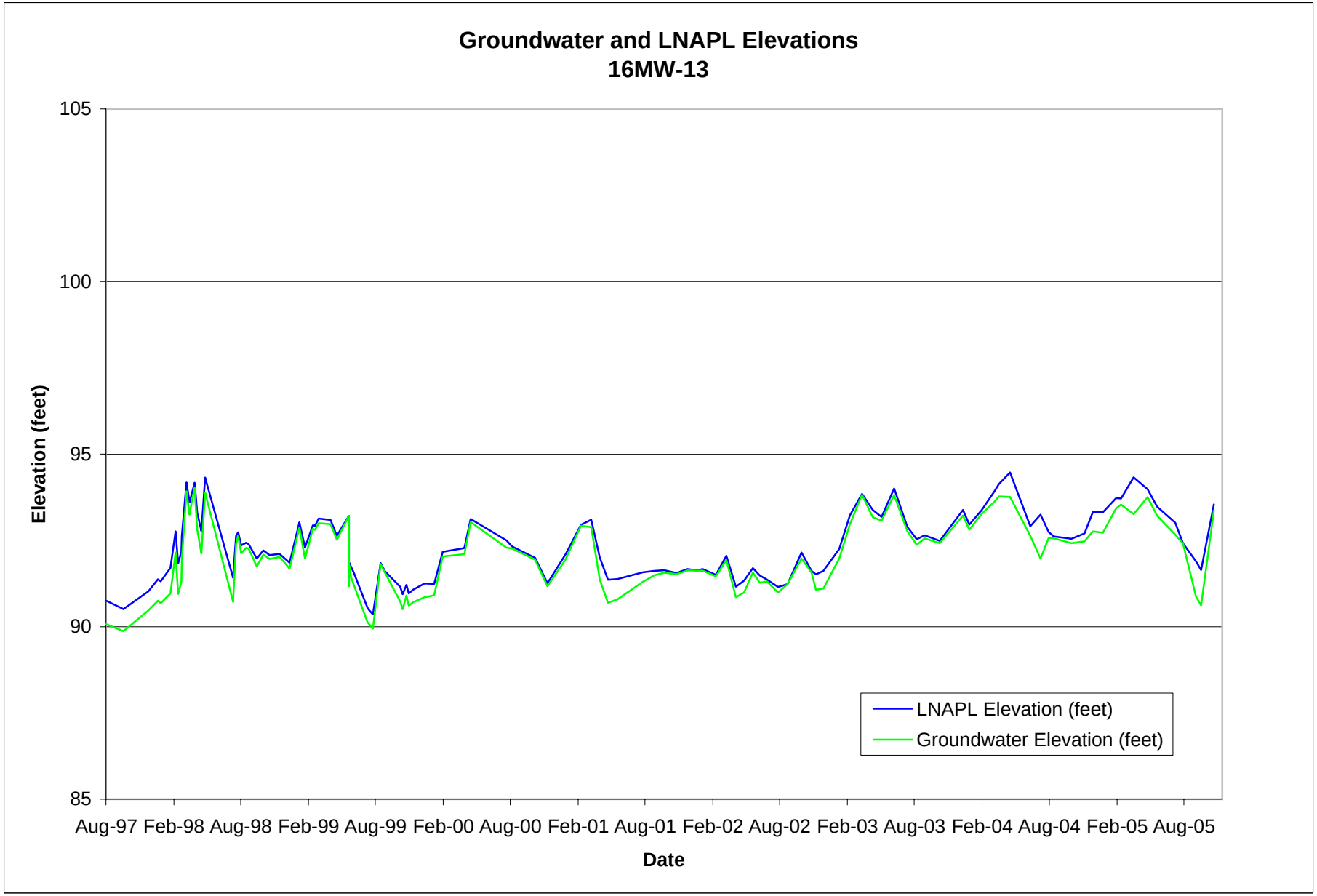
APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

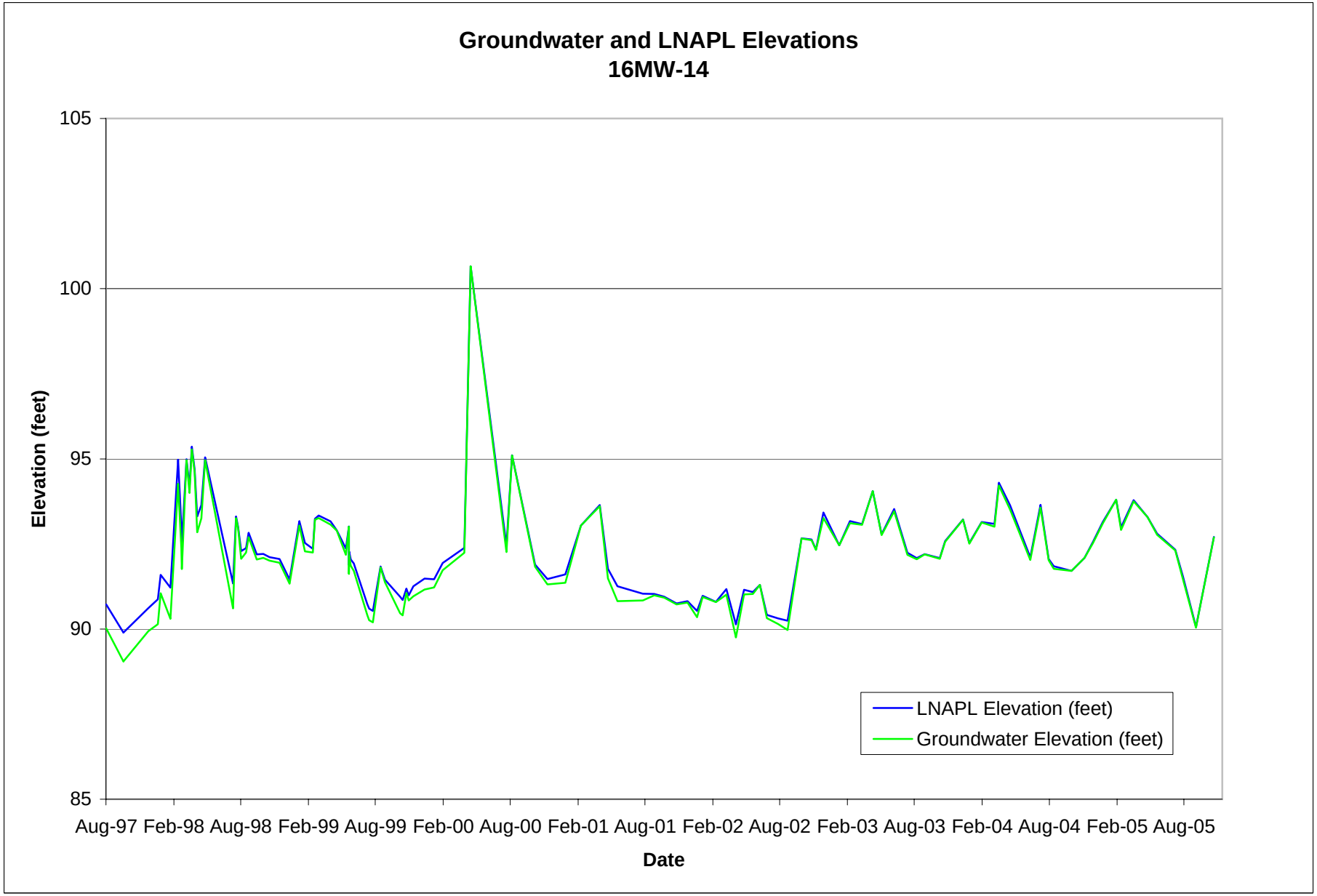
Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
C17MW-07	8/3/1999	100.16	10.62	89.54	11.25	0.63	90.08
C17MW-07	8/13/1999	100.16	10.96	89.20	11.66	0.70	89.80
C17MW-07	9/3/1999	100.16	8.37	91.79	8.41	0.04	91.83
C17MW-07	9/15/1999	100.16	9.37	90.79	9.66	0.29	90.81
C17MW-07	10/26/1999	100.16	11.04	89.12	12.06	1.02	89.99
C17MW-07	11/2/1999	100.16	10.99	89.17	11.92	0.93	89.96
C17MW-07	11/18/1999	100.16	8.56	91.60	8.73	0.17	91.74
C17MW-07	12/1/1999	100.16	8.45	91.71	8.64	0.19	91.87
C17MW-07	12/31/1999	100.16	8.30	91.86	8.52	0.22	92.05
C17MW-07	1/26/2000	100.16	8.20	91.96	8.32	0.12	92.06
C17MW-07	2/18/2000	100.16	7.47	92.69	7.50	0.03	92.72
C17MW-07	4/17/2000	100.16	7.38	92.78	7.46	0.08	92.85
C17MW-07	5/4/2000	100.16	7.92	92.24	7.98	0.06	92.29
C17MW-07	8/9/2000	100.16	7.07	93.09	7.13	0.06	93.14
C17MW-07	8/24/2000	100.16	7.50	92.66	7.52	0.02	92.68
C17MW-07	10/26/2000	100.16	8.08	92.08	8.14	0.06	92.13
C17MW-07	11/28/2000	100.16	8.00	92.16	8.16	0.16	92.29
C17MW-07	1/16/2001	100.16	8.10	92.06	8.30	0.20	92.23
C17MW-07	2/27/2001	100.16	6.42	93.74	6.43	0.01	93.74
C17MW-07	3/27/2001	100.16	6.25	93.91	6.29	0.04	93.95
C17MW-07	4/19/2001	100.16	6.44	93.72	6.58	0.14	93.84
C17MW-07	5/11/2001	100.16	7.19	92.97	7.34	0.15	93.10
C17MW-07	6/6/2001	100.16	7.57	92.59	7.76	0.19	92.75
C17MW-07	8/14/2001	100.16	8.96	91.20	9.33	0.37	91.52
C17MW-07	9/14/2001	100.16	8.76	91.40	8.94	0.18	91.55
C17MW-07	10/11/2001	100.16	8.36	91.80	8.40	0.04	91.83
C17MW-07	11/13/2001	100.16	8.91	91.25	9.06	0.15	91.38
C17MW-07	12/13/2001	100.16	8.93	91.23	9.14	0.21	91.40
C17MW-07	1/8/2002	100.16	9.38	90.78	9.76	0.38	91.11
C17MW-07	1/23/2002	100.16	9.70	90.46	10.17	0.47	90.86
C17MW-07	2/28/2002	100.16	9.21	90.95	9.47	0.26	91.17
C17MW-07	3/28/2002	100.16	8.30	91.86	8.68	0.38	92.18
C17MW-07	4/23/2002	100.16	8.70	91.46	8.98	0.28	91.70
C17MW-07	5/15/2002	100.16	8.50	91.66	8.84	0.34	91.95
C17MW-07	6/8/2002	100.16	8.80	91.36	9.14	0.34	91.65
C17MW-07	6/27/2002	100.16	8.80	91.36	9.15	0.35	91.66
C17MW-07	7/16/2002	100.16	8.65	91.51	8.68	0.03	91.53
C17MW-07	8/15/2002	100.16	9.53	90.63	10.23	0.70	91.23
C17MW-07	9/10/2002	100.16	8.10	92.06	8.14	0.04	92.10
C17MW-07	10/18/2002	100.16	7.18	92.98	7.22	0.04	93.02
C17MW-07	11/14/2002	100.16	7.60	92.56	7.70	0.10	92.65
C17MW-07	11/26/2002	100.16	7.12	93.04	7.16	0.04	93.08
C17MW-07	12/16/2002	100.16	6.55	93.61	6.58	0.03	93.63
C17MW-07	1/28/2003	100.16	7.75	92.41	8.05	0.30	92.67
C17MW-07	2/26/2003	100.16	6.33	93.83	6.35	0.02	93.85
C17MW-07	3/31/2003	100.16	6.03	94.13	6.04	0.01	94.13
C17MW-07	4/29/2003	100.16	5.80	94.36	5.81	0.01	94.36
C17MW-07	5/23/2003	100.16	6.47	93.69	6.49	0.02	93.70

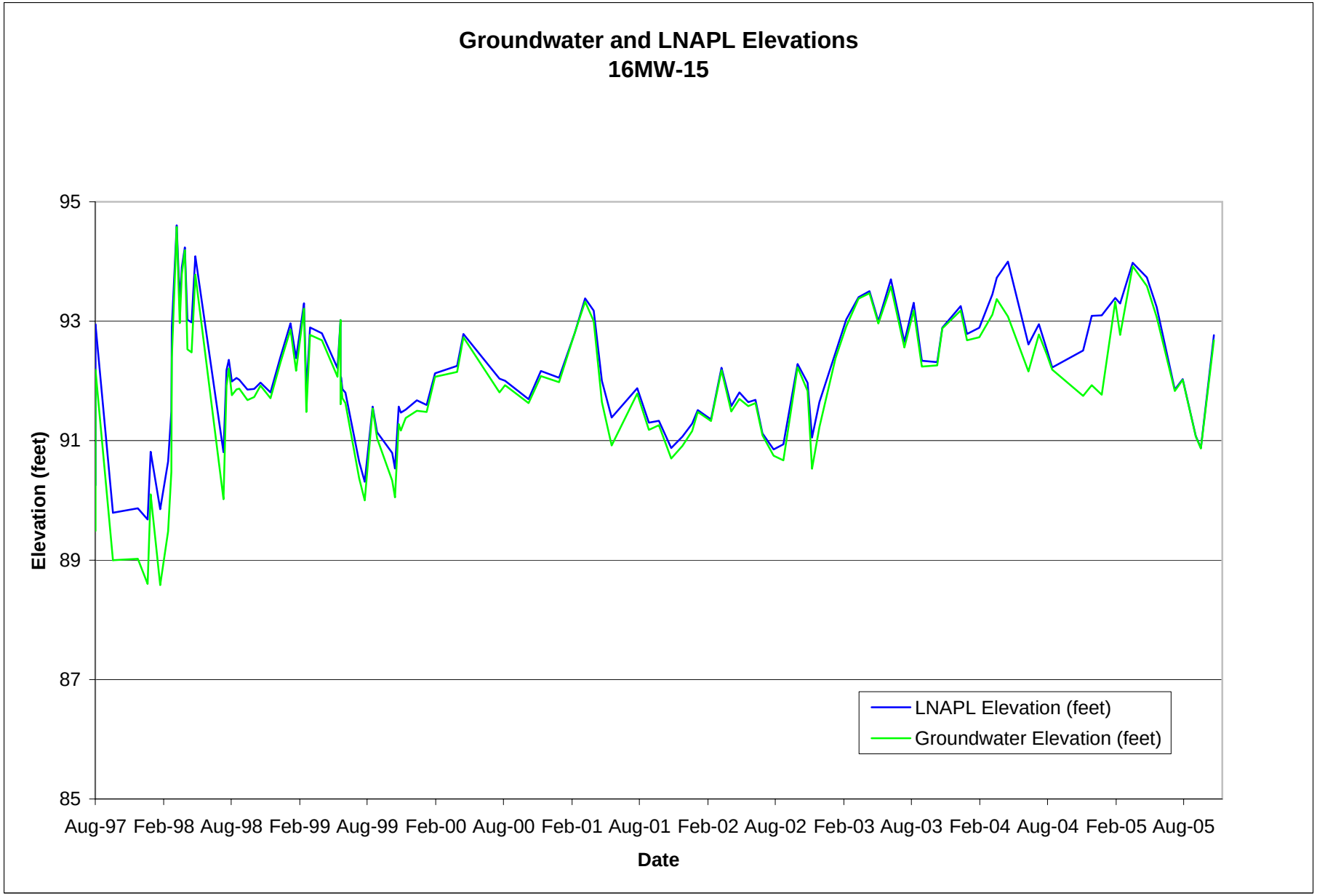
APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

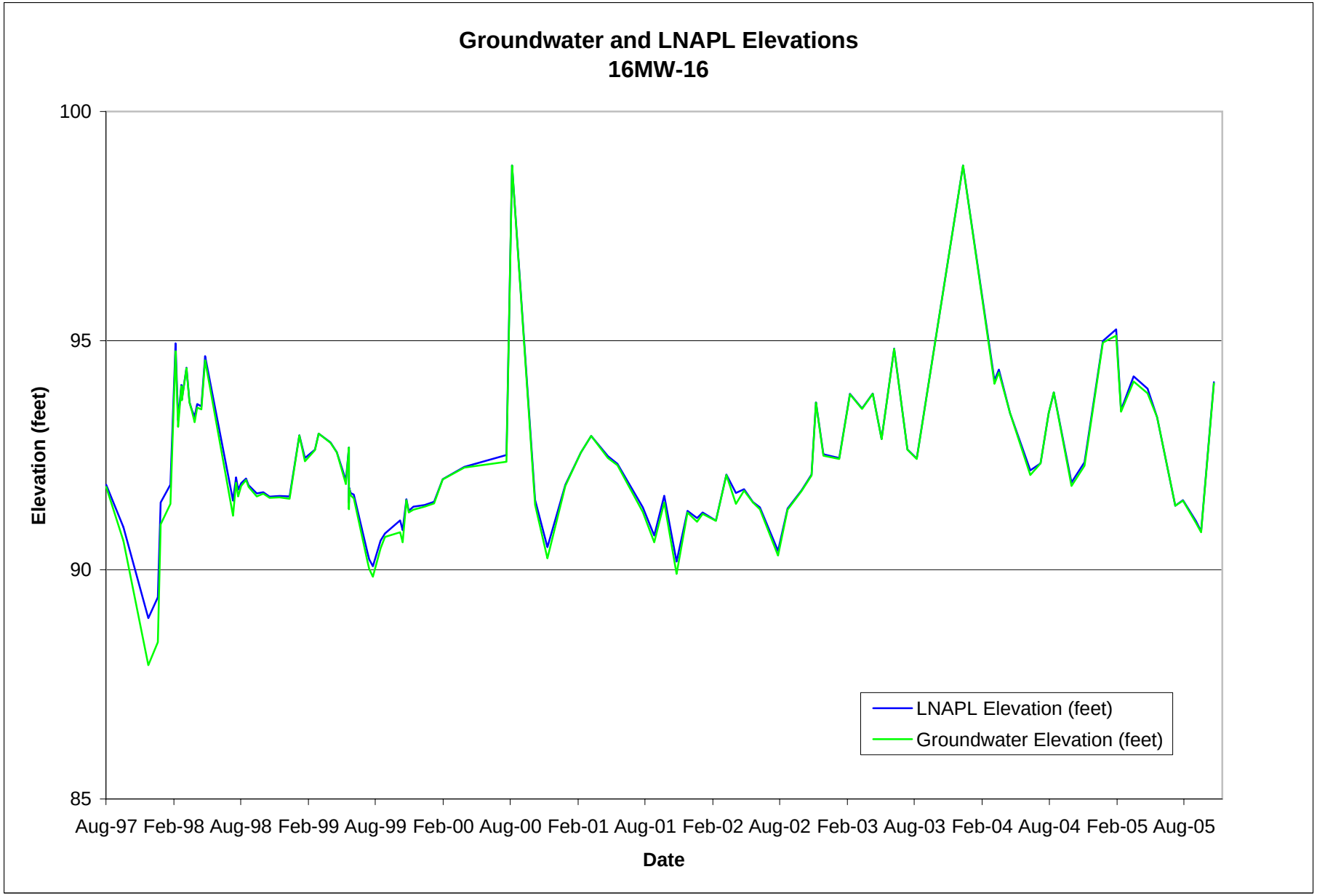
Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
C17MW-07	6/26/2003	100.16	5.20	94.96	5.22	0.02	94.97
C17MW-07	8/1/2003	100.16	6.52	93.64	6.54	0.02	93.66
C17MW-07	8/26/2003	100.16	6.73	93.43	6.76	0.03	93.45
C17MW-07	9/17/2003	100.16	6.71	93.45	6.72	0.01	93.46
C17MW-07	10/28/2003	100.16	7.20	92.96	7.23	0.03	92.98
C17MW-07	12/30/2003	100.16	5.32	94.84	5.33	0.01	94.85
C17MW-07	2/18/2004	100.16	6.03	94.13	6.04	0.01	94.14
C17MW-07	3/24/2004	100.16	5.66	94.50	5.61	0.05	94.54
C17MW-07	4/5/2004	100.16	5.42	94.74	5.38	0.04	94.77
C17MW-07	5/5/2004	100.16	5.12	95.04	-	0.00	95.04
C17MW-07	6/29/2004	100.16	7.58	92.58	7.51	0.07	92.64
C17MW-07	7/27/2004	100.16	6.95	93.21	6.90	0.05	93.25
C17MW-07	8/18/2004	100.16	7.60	92.56	7.40	0.20	92.73
C17MW-07	9/1/2004	100.16	7.89	92.27	-	0.00	92.27
C17MW-07	10/19/2004	100.16	7.58	92.58	7.50	0.08	92.65
C17MW-07	11/23/2004	100.16	7.69	92.47	7.23	0.46	92.86
C17MW-07	12/16/2004	100.16	7.17	92.99	6.61	0.56	93.47
C17MW-07	1/12/2005	100.16	7.22	92.94	6.51	0.71	93.54
C17MW-07	2/17/2005	100.16	7.02	93.14	6.12	0.90	93.91
C17MW-07	3/2/2005	100.16	7.10	93.06	6.27	0.83	93.77
C17MW-07	4/5/2005	100.16	6.32	93.84	5.41	0.91	94.62
C17MW-07	5/13/2005	100.16	6.28	93.88	5.36	0.92	94.66
C17MW-07	6/8/2005	100.16	6.70	93.46	6.55	0.15	93.59
C17MW-07	7/27/2005	100.16	7.06	93.10	6.98	0.08	93.17
C17MW-07	8/17/2005	100.16	7.90	92.26	7.85	0.05	92.30
C17MW-07	9/21/2005	100.16	8.90	91.26	8.30	0.60	91.77
C17MW-07	10/5/2005	100.16	8.90	91.26	8.40	0.50	91.69
C17MW-07	11/9/2005	100.16	6.47	93.69	6.45	0.02	93.71

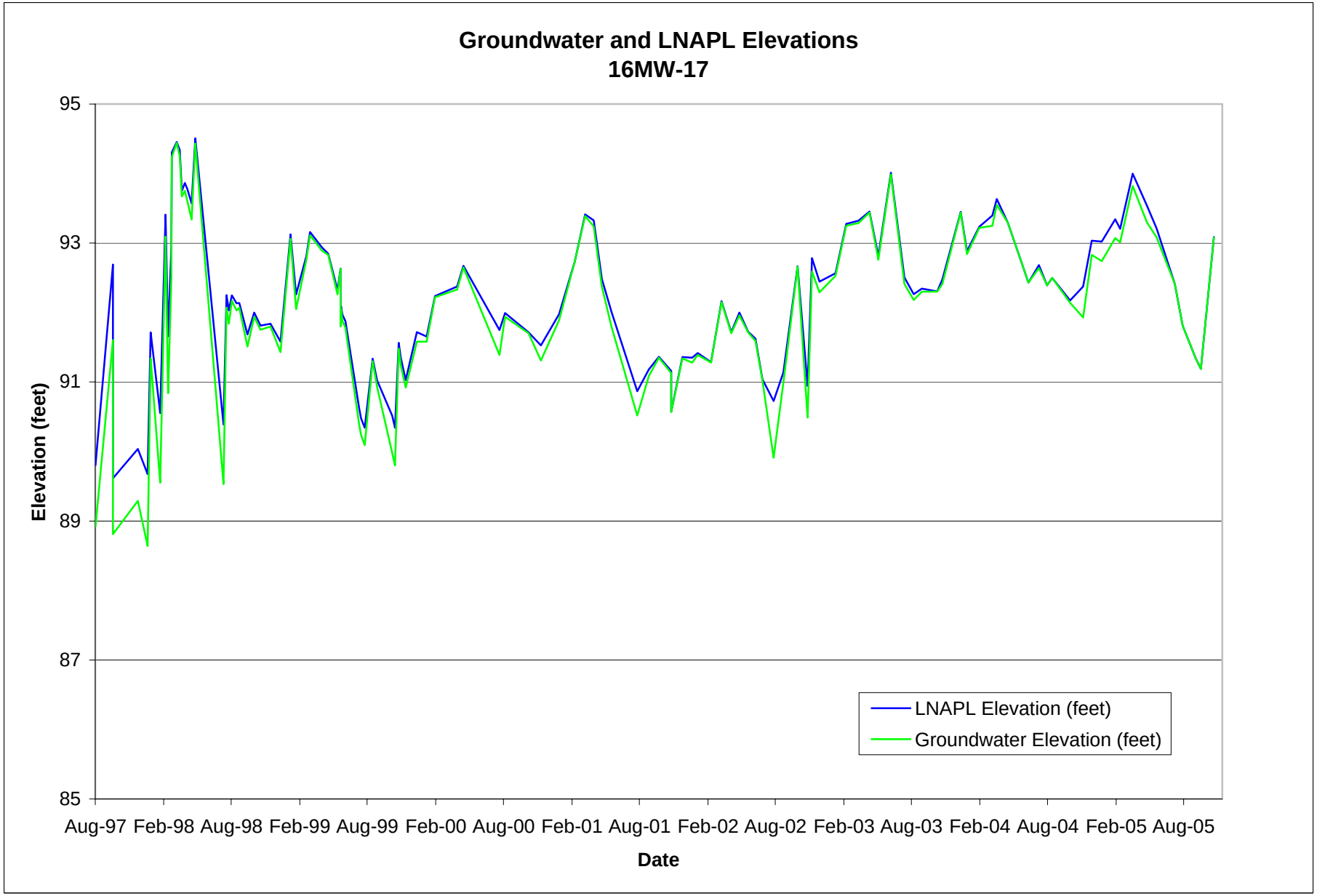

Groundwater and LNAPL Elevations
16MW-04
105
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

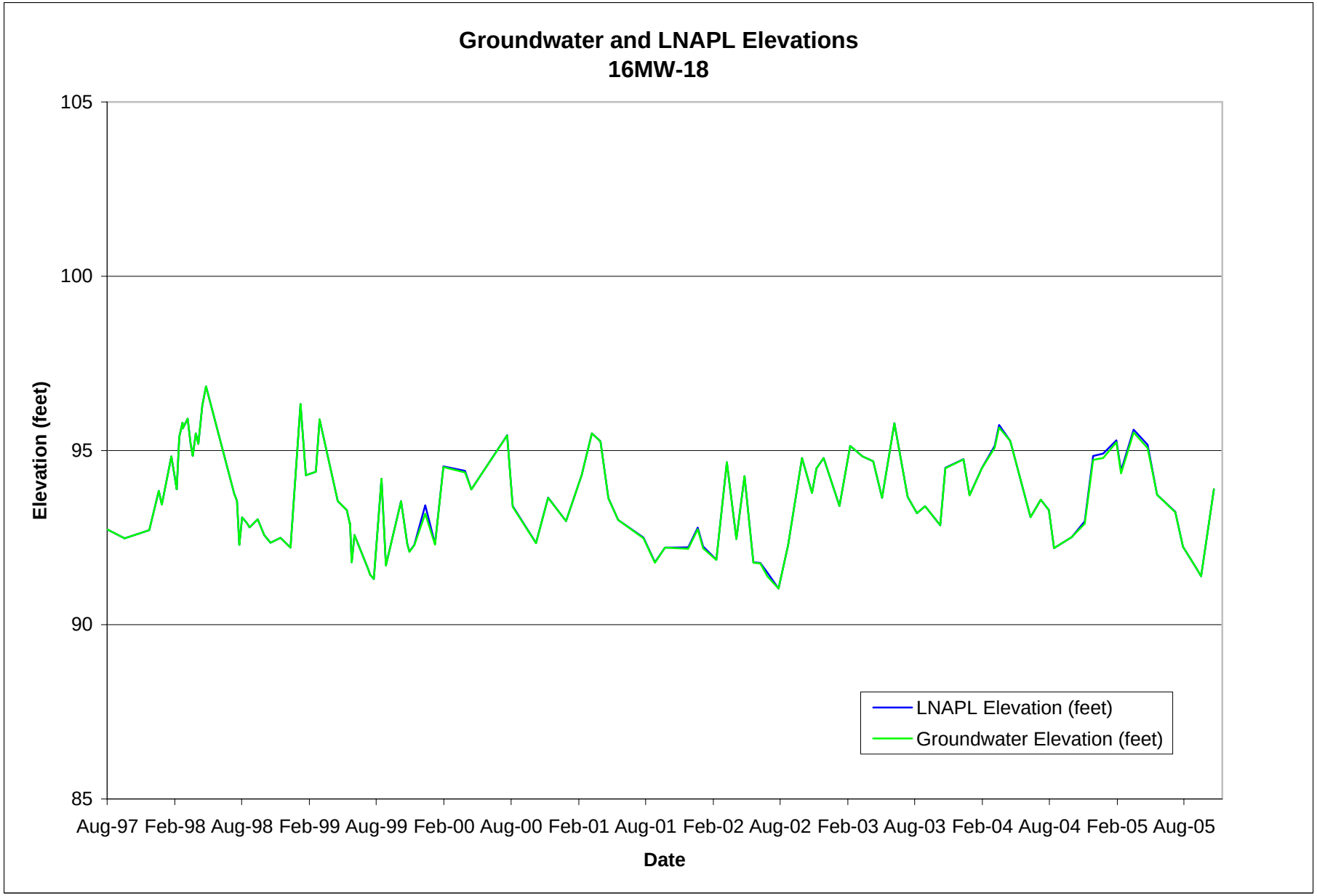

Groundwater and LNAPL Elevations
16MW-13
105
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

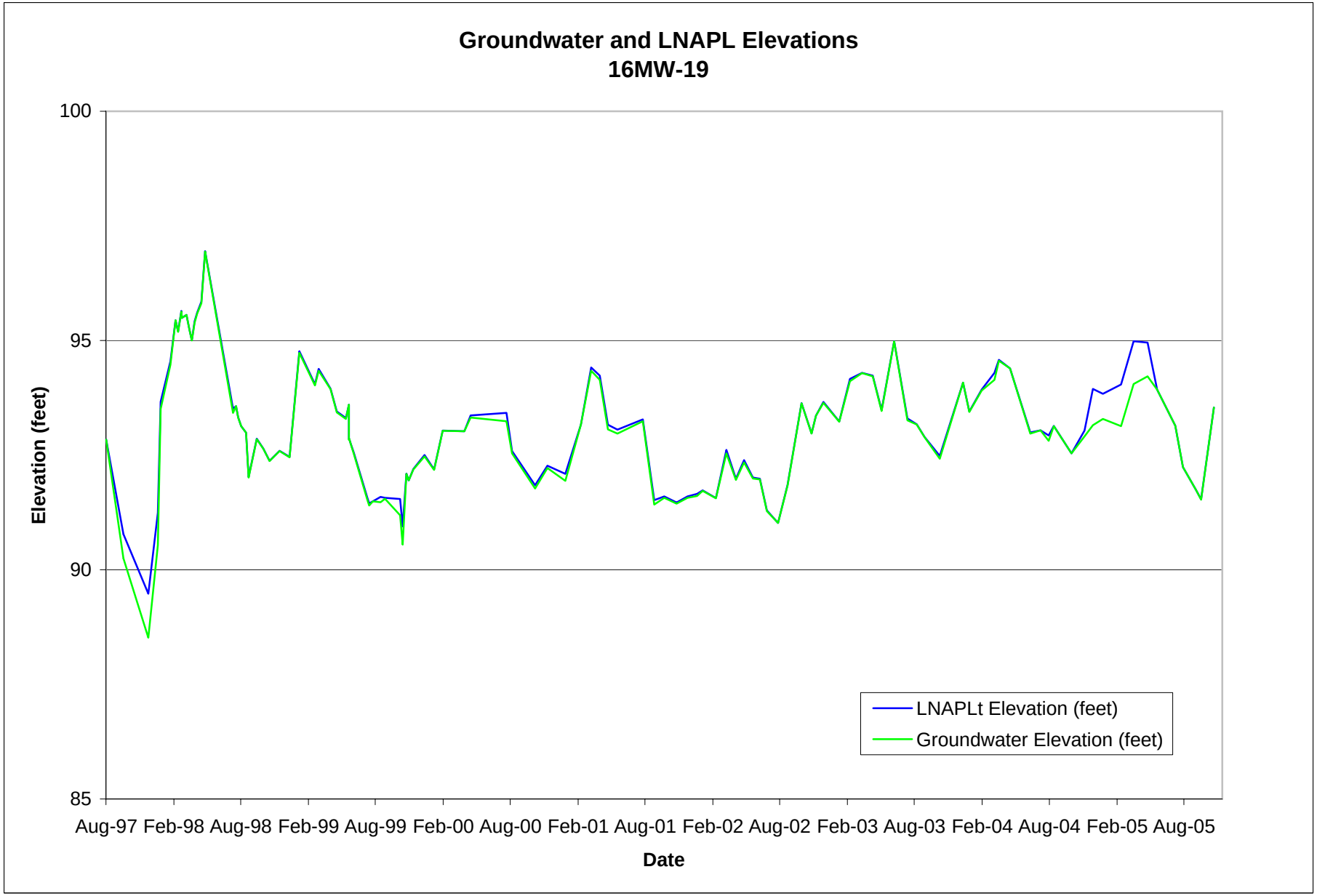

Groundwater and LNAPL Elevations
16MW-14
105
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

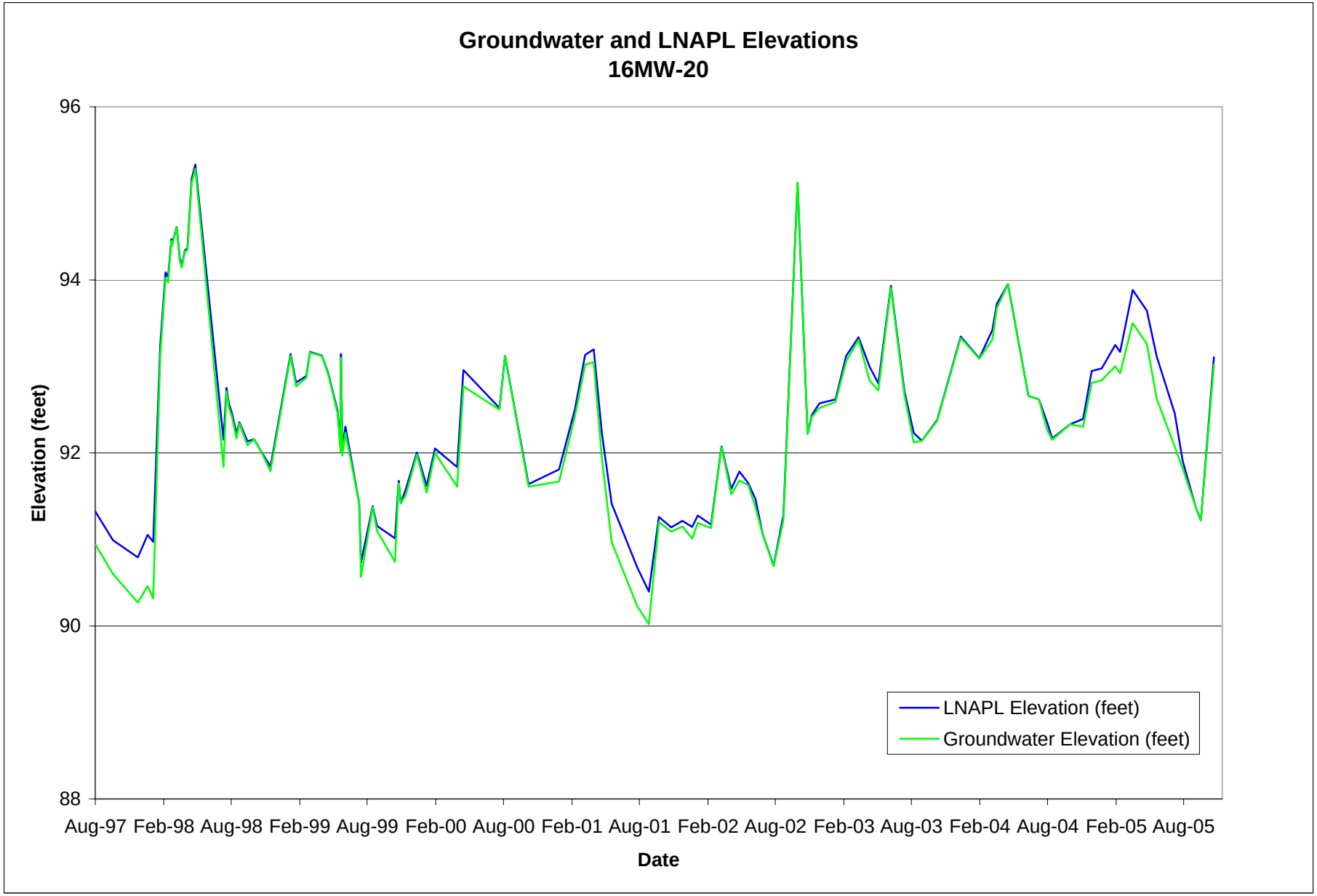

Groundwater and LNAPL Elevations
16MW-15
95
93
91
89
87
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

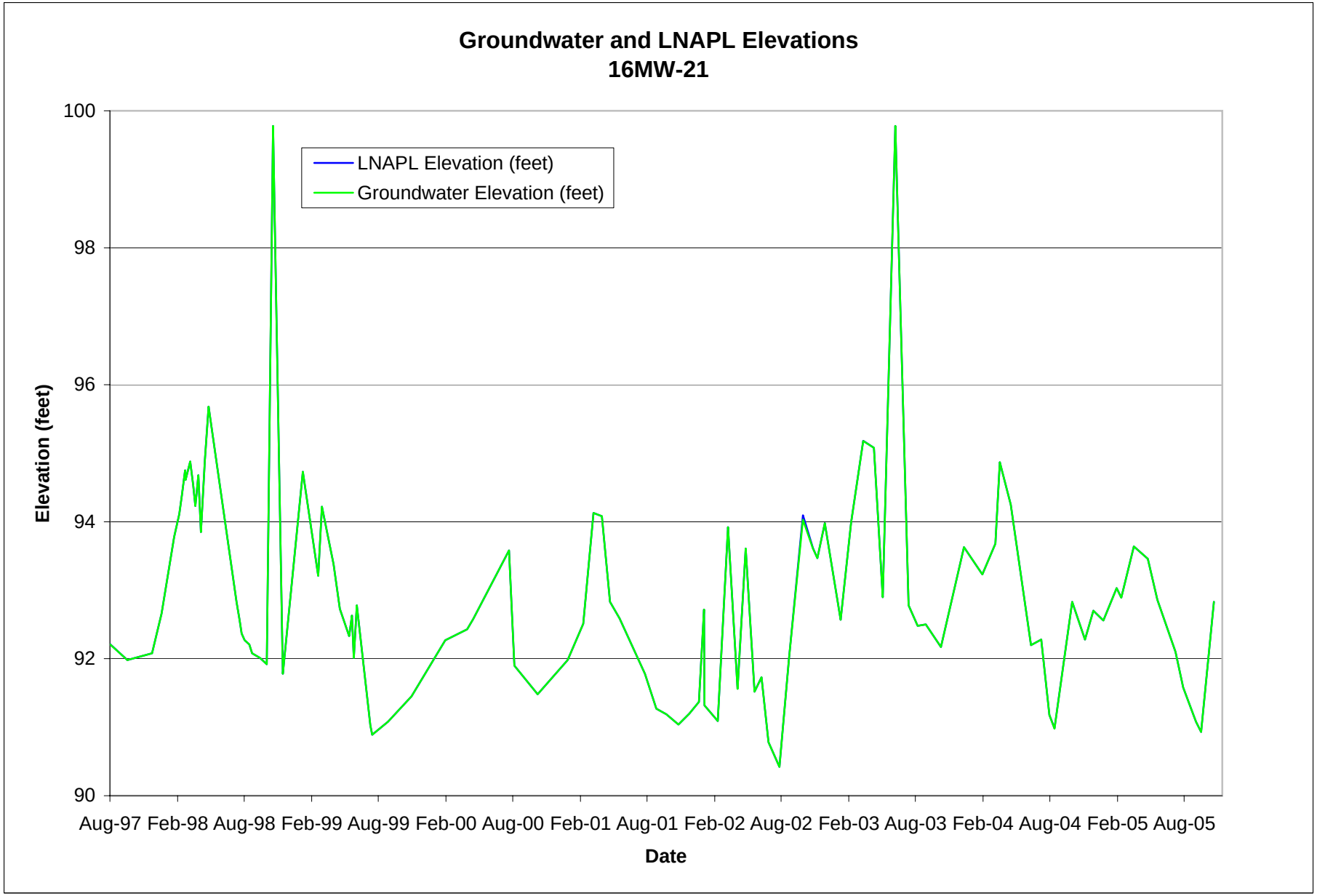

Groundwater and LNAPL Elevations
16MW-16
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

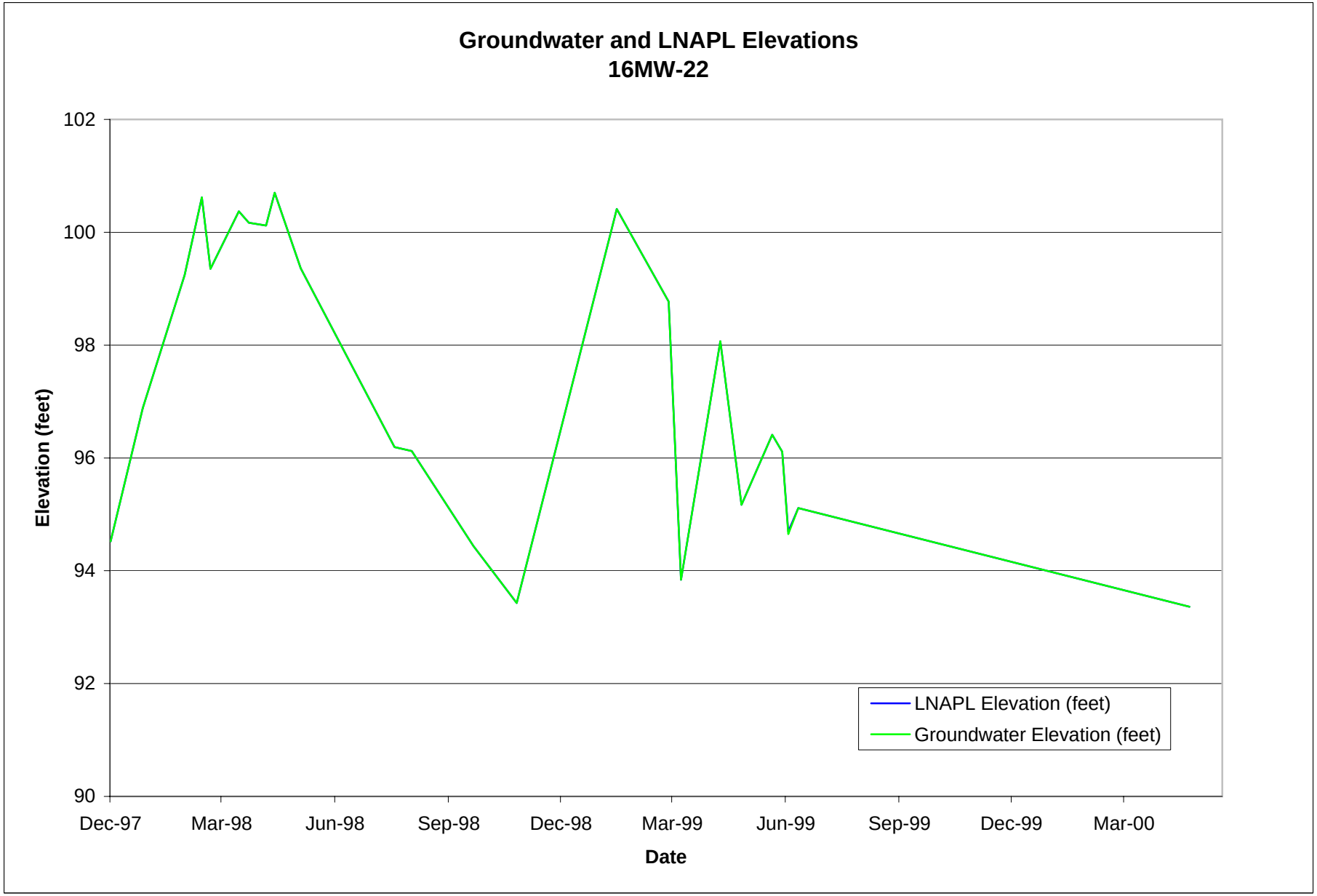

Groundwater and LNAPL Elevations
16MW-17
95
93
91
89
87
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

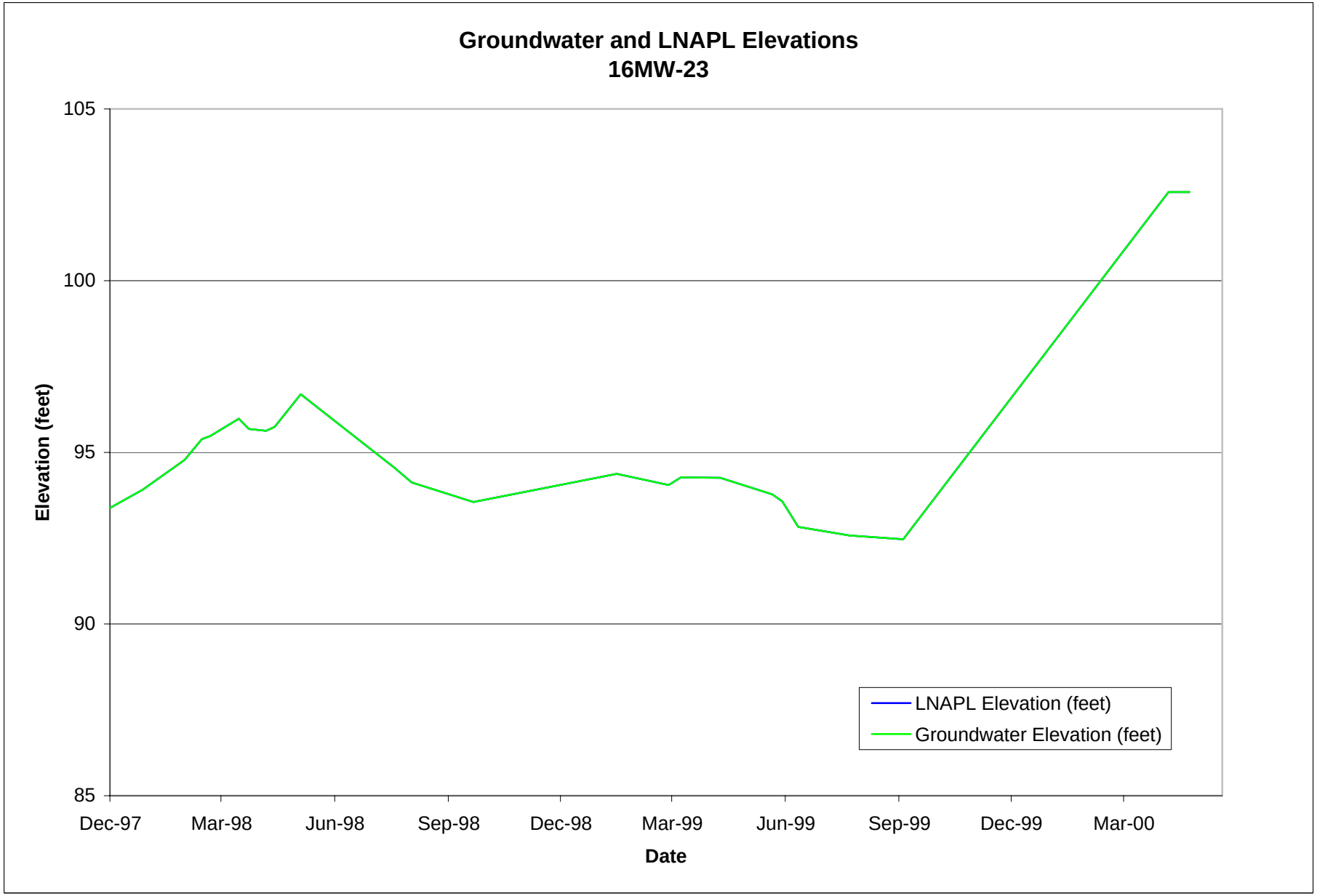

Groundwater and LNAPL Elevations
16MW-18
105
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

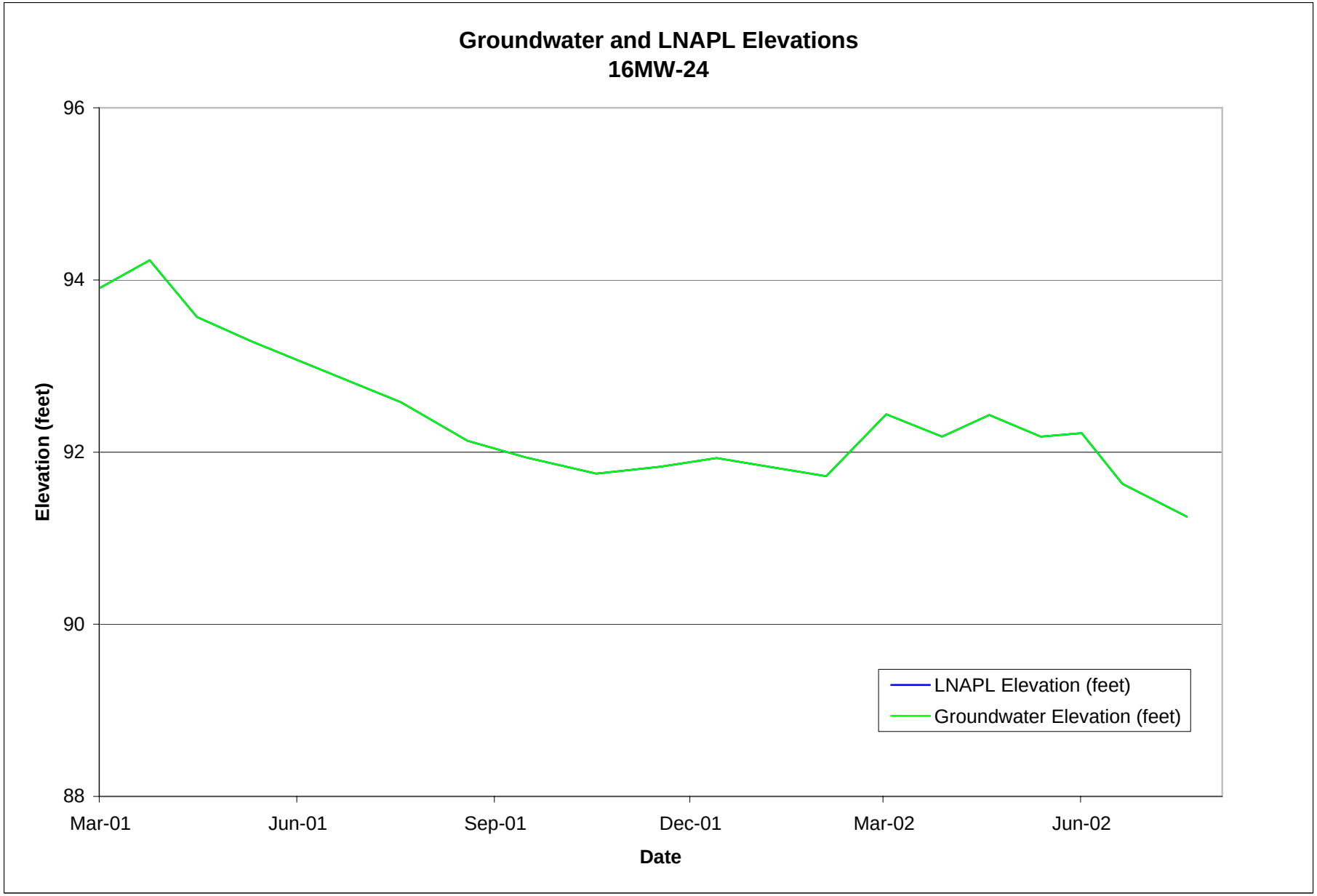

Groundwater and LNAPL Elevations
16MW-19
100
95
90
85
Elevation (feet)
Aug-97 Feb-98 Aug-98 Feb-99 Aug-99 Feb-00 Aug-00 Feb-01 Aug-01 Feb-02 Aug-02 Feb-03 Aug-03 Feb-04 Aug-04 Feb-05 Aug-05
Date
LNAPLt Elevation (feet)
Groundwater Elevation (feet)

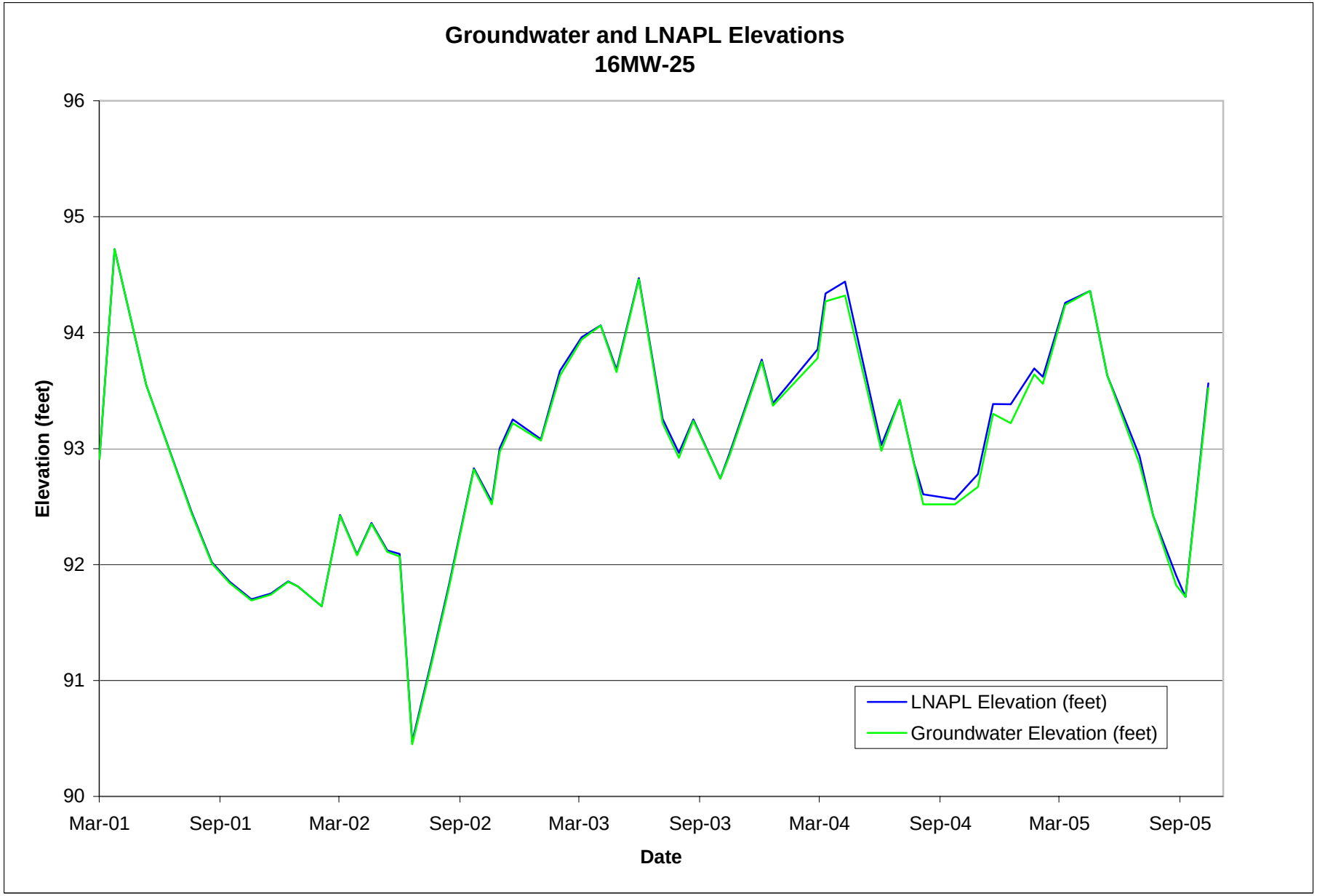

Groundwater and LNAPL Elevations
16MW-20
96
94
92
90
88
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

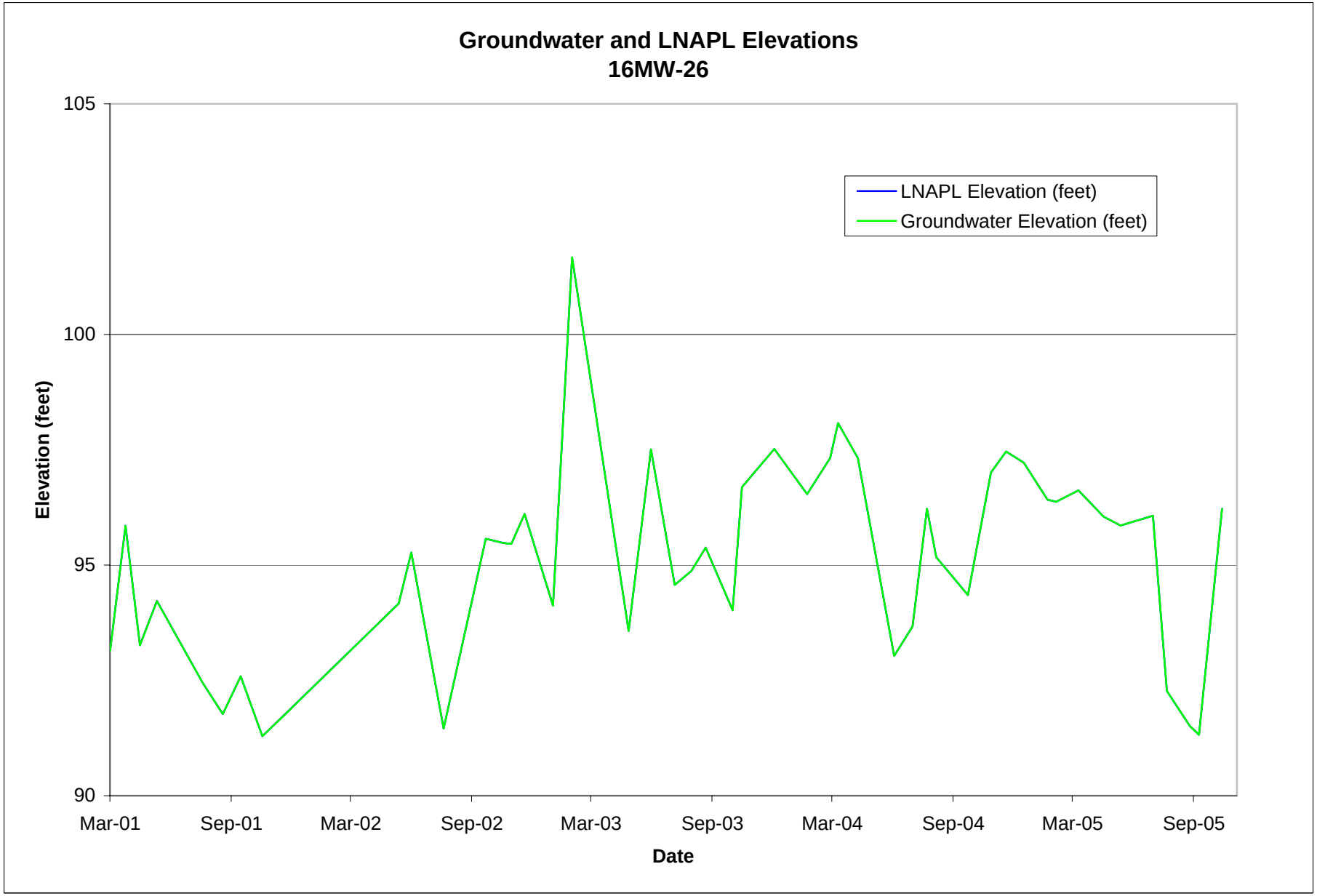

Groundwater and LNAPL Elevations
16MW-21
LNAPL Elevation (feet)
Groundwater Elevation (feet)
Elevation (feet)
100
98
96
94
92
90
Aug-97 Feb-98 Aug-98 Feb-99 Aug-99 Feb-00 Aug-00 Feb-01 Aug-01 Feb-02 Aug-02 Feb-03 Aug-03 Feb-04 Aug-04 Feb-05 Aug-05
Date

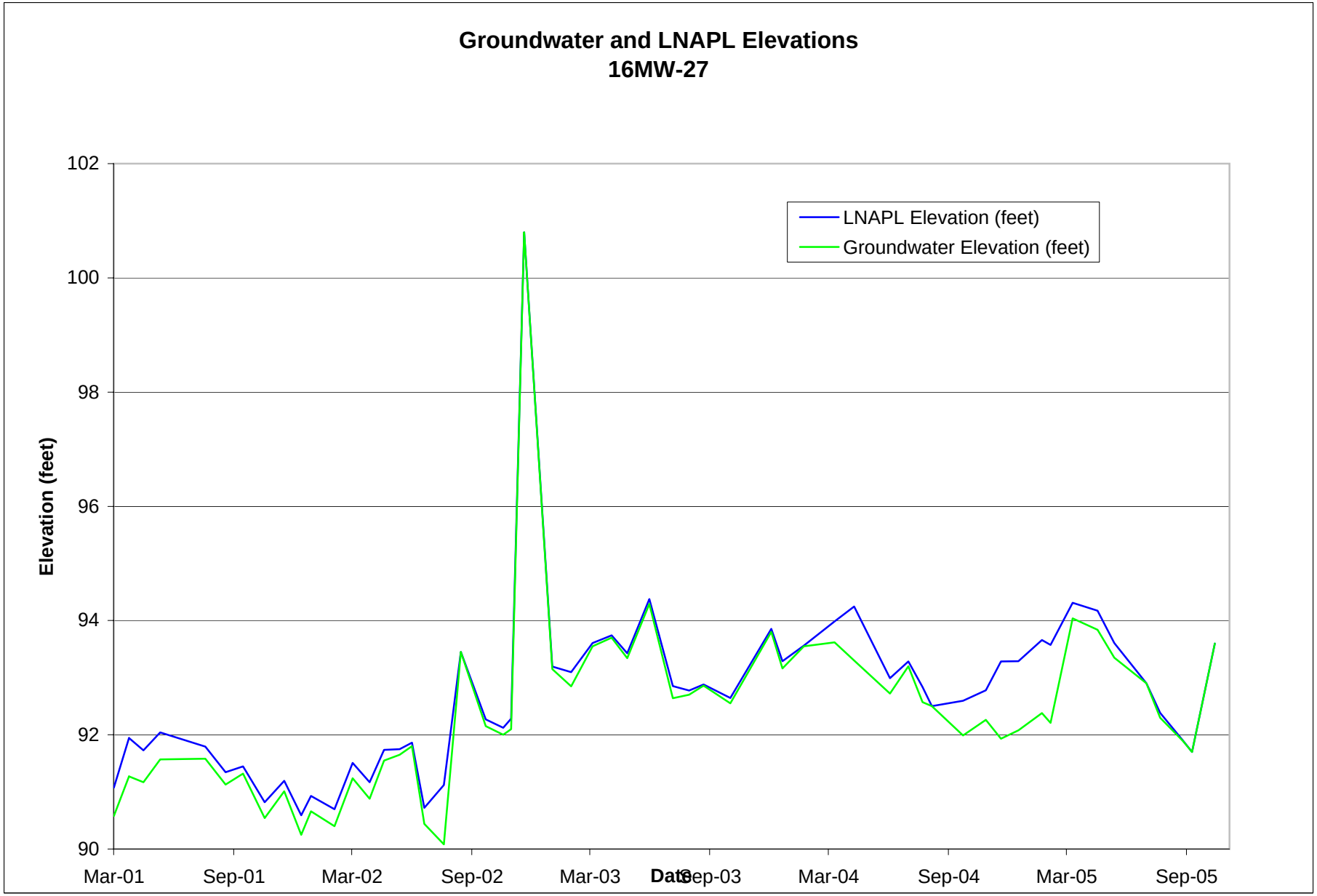

Groundwater and LNAPL Elevations
16MW-22
102
100
98
96
94
92
90
Elevation (feet)
Dec-97
Mar-98
Jun-98
Sep-98
Dec-98
Mar-99
Jun-99
Sep-99
Dec-99
Mar-00
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

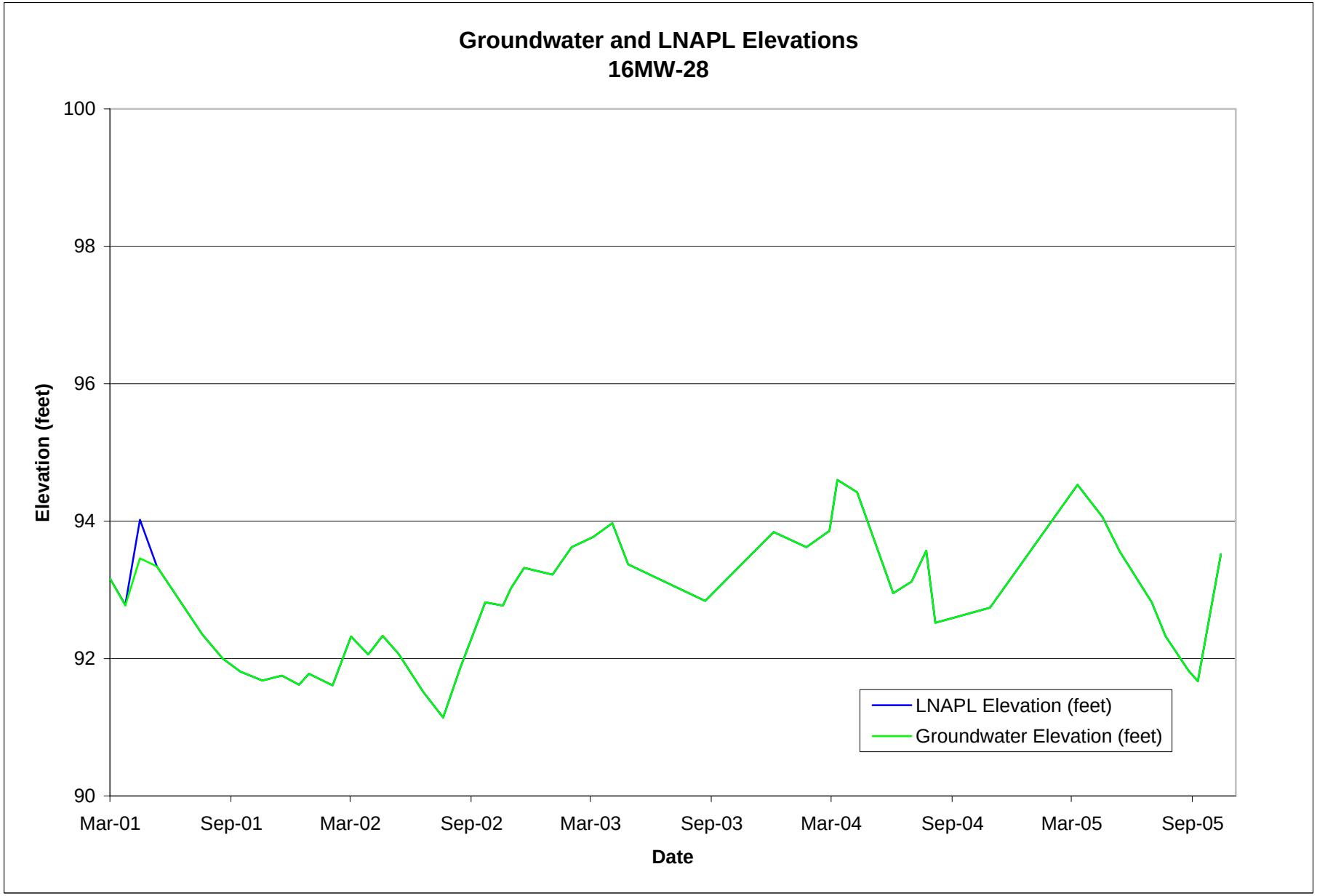

Groundwater and LNAPL Elevations
16MW-23
105
100
95
90
85
Elevation (feet)
Dec-97
Mar-98
Jun-98
Sep-98
Dec-98
Mar-99
Jun-99
Sep-99
Dec-99
Mar-00
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

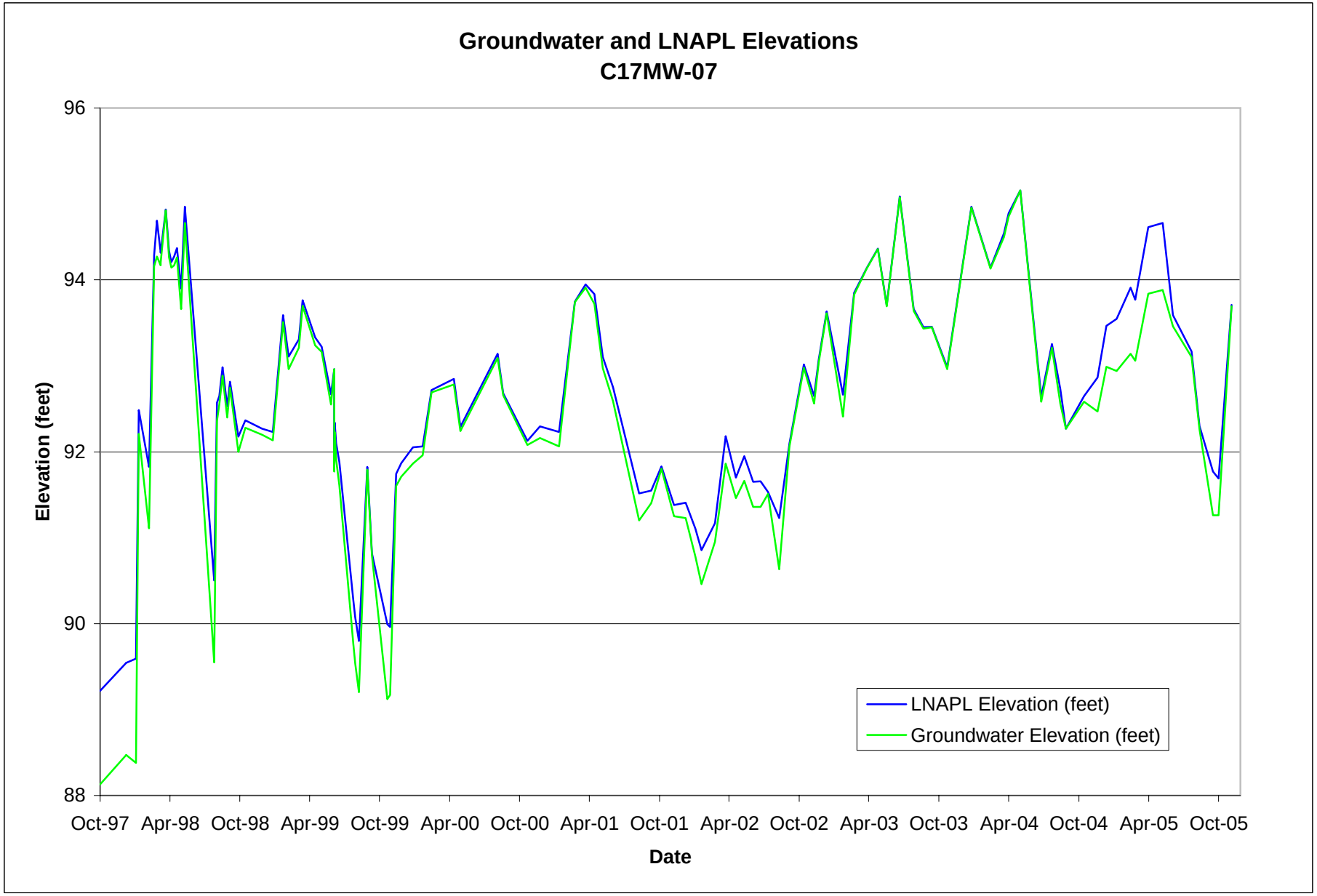

Groundwater and LNAPL Elevations
16MW-24
96
94
92
90
88
Elevation (feet)
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)


Groundwater and LNAPL Elevations
16MW-25
96
95
94
93
92
91
90
Elevation (feet)
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)


Groundwater and LNAPL Elevations
16MW-26
105
100
95
90
Elevation (feet)
LNAPL Elevation (feet)
Groundwater Elevation (feet)
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Date


Groundwater and LNAPL Elevations
16MW-27
LNAPL Elevation (feet)
Groundwater Elevation (feet)
Elevation (feet)
102
100
98
96
94
92
90
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Date


Groundwater and LNAPL Elevations
16MW-28
Elevation (feet)
100
98
96
94
92
90
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)


Groundwater and LNAPL Elevations
C17MW-07
96
94
92
90
88
Elevation (feet)
Oct-97
Apr-98
Oct-98
Apr-99
Oct-99
Apr-00
Oct-00
Apr-01
Oct-01
Apr-02
Oct-02
Apr-03
Oct-03
Apr-04
Oct-04
Apr-05
Oct-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

APPENDIX C
ANALYTICAL SUMMARY TABLES FOR VAPOR DISCHARGES AND LABORATORY ANALYTICAL DATA

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 1
Analytical Results of Air Samples

Bioslurper Unit #1

SAMPLE NO. BS #1 Final Effluent **Sample Date:** 9/21/2005 **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	75.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	75.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	75.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	75.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	75.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	75.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	75.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	75.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	75.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	75.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	75.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	75.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	75.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	75.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	75.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	75.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	75.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	75.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	75.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	75.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	75.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	75.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	75.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	75.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	75.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	75.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	75.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	75.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	75.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	75.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	75.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	75.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	75.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	75.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	75.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	75.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	75.0	0.003	2.11E-06	
2-Butanone	72.1	384.6	60.0	75.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	75.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	75.0	0.000	0.00E+00	
			Total Emissions:		**0.003**	**2.11E-06**	**5.00E-02**

Formula: Output Rate per Compound = $\frac{\text{(Mol. Wt.)x(Time Conv.)x(Concentration)x(Flow Rate)}}{\text{(Conv. Constant)x}10^6}$

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 2
Analytical Results of Air Samples

Bioslurper Unit #2

SAMPLE NO. BS #2 Final Effluent **Sample Date:** September 2005 - Deactivated **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	0.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	0.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	0.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	0.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	0.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	0.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	0.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	0.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	0.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	0.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	0.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	0.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	0.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	0.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
			Total Emissions:		**0.000**	**0.00E+00**	**5.00E-02**

Formula: Output Rate per Compound = $\frac{\text{(Mol. Wt.)x(Time Conv.)x(Concentration)x(Flow Rate)}}{\text{(Conv. Constant)x}10^6}$

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 1
Analytical Results of Air Samples

Bioslurper Unit #1

SAMPLE NO. BS #1 Final Effluent **Sample Date:** 10/12/2005 **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	75.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	75.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	75.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	75.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	75.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	75.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	75.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	75.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	75.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	75.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	75.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	75.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	75.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	75.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	75.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	75.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	75.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	75.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	75.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	75.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	75.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	75.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	75.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	75.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	75.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	75.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	75.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	75.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	75.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	75.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	75.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	75.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	75.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	75.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	75.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	75.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	75.0	0.003	2.11E-06	
2-Butanone	72.1	384.6	60.0	75.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	75.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	75.0	0.000	0.00E+00	
			Total Emissions:		**0.003**	**2.11E-06**	**5.00E-02**

Formula: Output Rate per Compound = $\frac{\text{(Mol. Wt.)x(Time Conv.)x(Concentration)x(Flow Rate)}}{\text{(Conv. Constant)x}10^6}$

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 2
Analytical Results of Air Samples

Bioslurper Unit #2

SAMPLE NO. BS #2 Final Effluent **Sample Date:** October 2005 - Deactivated **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	0.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	0.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	0.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	0.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	0.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	0.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	0.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	0.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	0.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	0.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	0.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	0.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	0.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	0.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
			Total Emissions:		**0.000**	**0.00E+00**	**5.00E-02**

Formula: Output Rate per Compound = $\frac{\text{(Mol. Wt.)x(Time Conv.)x(Concentration)x(Flow Rate)}}{\text{(Conv. Constant)x}10^6}$

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 1
Analytical Results of Air Samples

Bioslurper Unit #1

SAMPLE NO. BS #1 Final Effluent **Sample Date:** 11/9/2005 **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	25.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	25.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	25.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	25.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	25.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	25.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	25.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	25.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	25.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	25.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	25.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	25.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	25.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	25.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	25.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	25.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	25.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	25.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	25.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	25.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	25.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	25.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	25.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	25.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	25.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	25.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	25.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	25.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	25.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	25.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	25.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	25.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	25.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	25.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	25.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	25.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	25.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	25.0	0.002	5.06E-07	
4-methyl-2-pentanone	100.2	384.6	60.0	25.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	25.0	0.000	0.00E+00	
			Total Emissions:		**0.002**	**5.06E-07**	**5.00E-02**

Formula: Output Rate per Compound = $\frac{\text{(Mol. Wt.)x(Time Conv.)x(Concentration)x(Flow Rate)}}{\text{(Conv. Constant)x}10^6}$

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 2
Analytical Results of Air Samples

Bioslurper Unit #2

SAMPLE NO. BS #2 Final Effluent **Sample Date:** November 2005 - Deactivated **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	0.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	0.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	0.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	0.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	0.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	0.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	0.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	0.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	0.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	0.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	0.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	0.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	0.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	0.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
			Total Emissions:		**0.000**	**0.00E+00**	**5.00E-02**

Formula: Output Rate per Compound = $\frac{\text{(Mol. Wt.)x(Time Conv.)x(Concentration)x(Flow Rate)}}{\text{(Conv. Constant)x}10^6}$

APPENDIX C
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH REMOVED VIA VAPOR EXTRACTION

BIOSLURPER UNIT 1		
OPERATED (hours):	104	
AVERAGE FLOW RATE (cfm):	75	
TPH CONCENTRATION (mg/m^3):	1000	
(as per analytical)	**9/21/2005**	
	29.22	=POUNDS OF TPH

BIOSLURPER UNIT 2		
OPERATED (hours):	0	
AVERAGE FLOW RATE (cfm):	0	
TPH CONCENTRATION (mg/m^3):		
(as per analytical)	**Sept 2005 - Deactivated**	
	0.00	=POUNDS OF TPH

POUNDS OF TPH=

AVERAGE FLOW RATE (cfm) * $0.02832 m^3/ft^3$ * **TPH CONC**(mg/m^3) * 0.001g/mg * 0.002205 lbs/g * 60 min/hr * **OPERATED** (hours)

APPENDIX C
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH REMOVED VIA VAPOR EXTRACTION

BIOSLURPER UNIT 1		
OPERATED (hours):	112	
AVERAGE FLOW RATE (cfm):	75	
TPH CONCENTRATION (mg/m^3):	5200	
(as per analytical)	**10/12/2005**	
	163.66	=POUNDS OF TPH

BIOSLURPER UNIT 2		
OPERATED (hours):	0	
AVERAGE FLOW RATE (cfm):	0	
TPH CONCENTRATION (mg/m^3):		
(as per analytical)	**Oct 2005 - Deactivated**	
	0.00	=POUNDS OF TPH

POUNDS OF TPH=

AVERAGE FLOW RATE (cfm) * $0.02832 m^3/ft^3$ * **TPH CONC**(mg/m^3) * 0.001g/mg * 0.002205 lbs/g * 60 min/hr * **OPERATED** (hours)

APPENDIX C
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH REMOVED VIA VAPOR EXTRACTION

BIOSLURPER UNIT 1		
OPERATED (hours):	135	
AVERAGE FLOW RATE (cfm):	25	
TPH CONCENTRATION (mg/m^3):	480	
(as per analytical)	**11/9/2005**	
	6.07	=POUNDS OF TPH

BIOSLURPER UNIT 2		
OPERATED (hours):	0	
AVERAGE FLOW RATE (cfm):	0	
TPH CONCENTRATION (mg/m^3):		
(as per analytical)	**Nov 2005 - Deactivated**	
	0.00	=POUNDS OF TPH

POUNDS OF TPH=

AVERAGE FLOW RATE (cfm) * $0.02832 m^3/ft^3$ * **TPH CONC**(mg/m^3) * 0.001g/mg * 0.002205 lbs/g * 60 min/hr * **OPERATED** (hours)

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Contact Person Rich Evans
Company ECOR Solutions Email
Address 1075 Andrew Dr. City Westchester State PA Zip 19380
Phone 610-431-8731 Fax 610-431-2852

Collected by: (Signature)

Project Info:
P.O. # NO 100171
Project #
Project Name NWS Earle

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: OR
Date: 9/26/05
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	In Fluent	9-21-05	12:10	TO3 + TO14			1.0 "Hg	5.0
02A	Final EFFluent	↓	12:05	TO3 + TO14			1.0 "Hg	5.0

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	9-21-05	[signature] ATL	9/22 10:45
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8532 6161 2573	N/A	Good	Yes No (None)	0509501

Form 1293 rev.10

AIR TOXICS LTD.

Client Sample ID: Influent

Lab ID#: 0509501A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1100614	Date of Collection:	9/21/05
Dil. Factor:	55.6	Date of Analysis:	10/6/05 09:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	28	Not Detected	140	Not Detected
Freon 114	28	Not Detected	190	Not Detected
Chloromethane	110	Not Detected	230	Not Detected
Vinyl Chloride	28	Not Detected	71	Not Detected
1,3-Butadiene	28	Not Detected	62	Not Detected
Bromomethane	28	Not Detected	110	Not Detected
Chloroethane	28	Not Detected	73	Not Detected
Freon 11	28	Not Detected	160	Not Detected
Ethanol	110	Not Detected	210	Not Detected
Freon 113	28	Not Detected	210	Not Detected
1,1-Dichloroethene	28	Not Detected	110	Not Detected
Acetone	110	Not Detected	260	Not Detected
2-Propanol	110	Not Detected	270	Not Detected
Carbon Disulfide	28	Not Detected	86	Not Detected
3-Chloropropene	110	Not Detected	350	Not Detected
Methylene Chloride	28	Not Detected	96	Not Detected
Methyl tert-butyl ether	28	46	100	160
trans-1,2-Dichloroethene	28	Not Detected	110	Not Detected
Hexane	28	5400	98	19000
1,1-Dichloroethane	28	Not Detected	110	Not Detected
2-Butanone (Methyl Ethyl Ketone)	28	Not Detected	82	Not Detected
cis-1,2-Dichloroethene	28	Not Detected	110	Not Detected
Tetrahydrofuran	28	Not Detected	82	Not Detected
Chloroform	28	Not Detected	140	Not Detected
1,1,1-Trichloroethane	28	Not Detected	150	Not Detected
Cyclohexane	28	2100	96	7200
Carbon Tetrachloride	28	Not Detected	170	Not Detected
2,2,4-Trimethylpentane	28	1700	130	8100
Benzene	28	1500	89	4800
1,2-Dichloroethane	28	Not Detected	110	Not Detected
Heptane	28	1800	110	7500
Trichloroethene	28	Not Detected	150	Not Detected
1,2-Dichloropropane	28	Not Detected	130	Not Detected
1,4-Dioxane	110	Not Detected	400	Not Detected
Bromodichloromethane	28	Not Detected	190	Not Detected
cis-1,3-Dichloropropene	28	Not Detected	130	Not Detected
4-Methyl-2-pentanone	28	Not Detected	110	Not Detected
Toluene	28	99	100	370
trans-1,3-Dichloropropene	28	Not Detected	130	Not Detected
1,1,2-Trichloroethane	28	Not Detected	150	Not Detected
Tetrachloroethene	28	Not Detected	190	Not Detected
2-Hexanone	110	Not Detected	460	Not Detected

AIR TOXICS LTD.

Client Sample ID: Influent

Lab ID#: 0509501A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1100614	Date of Collection:	9/21/05
Dil. Factor:	55.6	Date of Analysis:	10/6/05 09:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	28	Not Detected	240	Not Detected
1,2-Dibromoethane (EDB)	28	Not Detected	210	Not Detected
Chlorobenzene	28	Not Detected	130	Not Detected
Ethyl Benzene	28	830	120	3600
m,p-Xylene	28	2100	120	9000
o-Xylene	28	130	120	570
Styrene	28	Not Detected	120	Not Detected
Bromoform	28	Not Detected	290	Not Detected
Cumene	28	100	140	500
1,1,2,2-Tetrachloroethane	28	Not Detected	190	Not Detected
Propylbenzene	28	170	140	820
4-Ethyltoluene	28	730	140	3600
1,3,5-Trimethylbenzene	28	330	140	1600
1,2,4-Trimethylbenzene	28	1000	140	5100
1,3-Dichlorobenzene	28	Not Detected	170	Not Detected
1,4-Dichlorobenzene	28	Not Detected	170	Not Detected
alpha-Chlorotoluene	28	Not Detected	140	Not Detected
1,2-Dichlorobenzene	28	Not Detected	170	Not Detected
1,2,4-Trichlorobenzene	110	Not Detected	820	Not Detected
Hexachlorobutadiene	110	Not Detected	1200	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

Client Sample ID: Final Effluent

Lab ID#: 0509501A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	i100612	Date of Collection:	9/21/05
Dil. Factor:	1.39	Date of Analysis:	10/6/05 08:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.70	Not Detected	3.4	Not Detected
Freon 114	0.70	Not Detected	4.8	Not Detected
Chloromethane	2.8	Not Detected	5.7	Not Detected
Vinyl Chloride	0.70	Not Detected	1.8	Not Detected
1,3-Butadiene	0.70	Not Detected	1.5	Not Detected
Bromomethane	0.70	Not Detected	2.7	Not Detected
Chloroethane	0.70	Not Detected	1.8	Not Detected
Freon 11	0.70	Not Detected	3.9	Not Detected
Ethanol	2.8	Not Detected	5.2	Not Detected
Freon 113	0.70	Not Detected	5.3	Not Detected
1,1-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Acetone	2.8	3.1	6.6	7.5
2-Propanol	2.8	Not Detected	6.8	Not Detected
Carbon Disulfide	0.70	Not Detected	2.2	Not Detected
3-Chloropropene	2.8	Not Detected	8.7	Not Detected
Methylene Chloride	0.70	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.70	Not Detected	2.5	Not Detected
trans-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Hexane	0.70	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.70	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.70	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Tetrahydrofuran	0.70	Not Detected	2.0	Not Detected
Chloroform	0.70	Not Detected	3.4	Not Detected
1,1,1-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Cyclohexane	0.70	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.70	Not Detected	4.4	Not Detected
2,2,4-Trimethylpentane	0.70	Not Detected	3.2	Not Detected
Benzene	0.70	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.70	Not Detected	2.8	Not Detected
Heptane	0.70	Not Detected	2.8	Not Detected
Trichloroethene	0.70	Not Detected	3.7	Not Detected
1,2-Dichloropropane	0.70	Not Detected	3.2	Not Detected
1,4-Dioxane	2.8	Not Detected	10	Not Detected
Bromodichloromethane	0.70	Not Detected	4.6	Not Detected
cis-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
4-Methyl-2-pentanone	0.70	Not Detected	2.8	Not Detected
Toluene	0.70	Not Detected	2.6	Not Detected
trans-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
1,1,2-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Tetrachloroethene	0.70	Not Detected	4.7	Not Detected
2-Hexanone	2.8	Not Detected	11	Not Detected

AIR TOXICS LTD.

Client Sample ID: Final Effluent

Lab ID#: 0509501A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1100612	Date of Collection:	9/21/05
Dil. Factor:	1.39	Date of Analysis:	10/6/05 08:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.70	Not Detected	5.9	Not Detected
1,2-Dibromoethane (EDB)	0.70	Not Detected	5.3	Not Detected
Chlorobenzene	0.70	Not Detected	3.2	Not Detected
Ethyl Benzene	0.70	Not Detected	3.0	Not Detected
m,p-Xylene	0.70	Not Detected	3.0	Not Detected
o-Xylene	0.70	Not Detected	3.0	Not Detected
Styrene	0.70	Not Detected	3.0	Not Detected
Bromoform	0.70	Not Detected	7.2	Not Detected
Cumene	0.70	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.70	Not Detected	4.8	Not Detected
Propylbenzene	0.70	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.70	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.70	Not Detected	3.4	Not Detected
1,2,4-Trimethylbenzene	0.70	Not Detected	3.4	Not Detected
1,3-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,4-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
alpha-Chlorotoluene	0.70	Not Detected	3.6	Not Detected
1,2-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,2,4-Trichlorobenzene	2.8	Not Detected	21	Not Detected
Hexachlorobutadiene	2.8	Not Detected	30	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	127	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0509501A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	I100607	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/6/05 03:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0509501A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	i100607	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 10/6/05 03:51 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: Influent

Lab ID#: 0509501B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d100322	Date of Collection:	9/21/05
Dil. Factor:	34.8	Date of Analysis:	10/3/05 10:11 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.87	3.6	240	1000

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	183 Q	75-150

AIR TOXICS LTD.

Client Sample ID: Final Effluent

Lab ID#: 0509501B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d100321	Date of Collection:	9/21/05
Dil. Factor:	1.39	Date of Analysis:	10/3/05 09:29 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.035	0.14	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	104	75-150

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0509501B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d100314	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 10/3/05 04:44 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	104	75-150

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

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CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Contact Person: Rich Evans
Company: ECOR Solutions Email:
Address: 1075 Andrew Dr. City: Westchester State: PA Zip: 19380
Phone: 610-431-8731 Fax: 610-431-2852
Collected by: (Signature)

Project Info:
P.O. #: N0100.171
Project #:
Project Name: NWS Earle

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only:
Pressurized by: BB
Date: 10/13/05
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	Influent	10-12-05	11:00	T03 + T014			0.04	5.0
02A	Final Effluent	↓	10:59	T03 + T014			0.5	5.0

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	10-12-05, 12:10	[signature]	10/13/05 1025
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only: Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
FedEx	8532 6161 2584	—	good	Yes No None	0510242

Form 1298 rev. 10

AIR TOXICS LTD.

Client Sample ID: Influent

Lab ID#: 0510242A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5102210	Date of Collection: 10/12/05
Dil. Factor:	179	Date of Analysis: 10/22/05 02:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	90	Not Detected	440	Not Detected
Freon 114	90	Not Detected	620	Not Detected
Chloromethane	360	Not Detected	740	Not Detected
Vinyl Chloride	90	Not Detected	230	Not Detected
1,3-Butadiene	90	Not Detected	200	Not Detected
Bromomethane	90	Not Detected	350	Not Detected
Chloroethane	90	Not Detected	240	Not Detected
Freon 11	90	Not Detected	500	Not Detected
Ethanol	360	Not Detected	670	Not Detected
Freon 113	90	Not Detected	680	Not Detected
1,1-Dichloroethene	90	Not Detected	350	Not Detected
Acetone	360	Not Detected	850	Not Detected
2-Propanol	360	Not Detected	880	Not Detected
Carbon Disulfide	90	Not Detected	280	Not Detected
3-Chloropropene	360	Not Detected	1100	Not Detected
Methylene Chloride	90	Not Detected	310	Not Detected
Methyl tert-butyl ether	90	Not Detected	320	Not Detected
trans-1,2-Dichloroethene	90	Not Detected	350	Not Detected
Hexane	90	22000	320	79000
1,1-Dichloroethane	90	Not Detected	360	Not Detected
2-Butanone (Methyl Ethyl Ketone)	90	Not Detected	260	Not Detected
cis-1,2-Dichloroethene	90	Not Detected	350	Not Detected
Tetrahydrofuran	90	Not Detected	260	Not Detected
Chloroform	90	Not Detected	440	Not Detected
1,1,1-Trichloroethane	90	Not Detected	490	Not Detected
Cyclohexane	90	6000	310	21000
Carbon Tetrachloride	90	Not Detected	560	Not Detected
2,2,4-Trimethylpentane	90	4200	420	20000
Benzene	90	3500	280	11000
1,2-Dichloroethane	90	Not Detected	360	Not Detected
Heptane	90	8600	370	35000
Trichloroethene	90	Not Detected	480	Not Detected
1,2-Dichloropropane	90	Not Detected	410	Not Detected
1,4-Dioxane	360	Not Detected	1300	Not Detected
Bromodichloromethane	90	Not Detected	600	Not Detected
cis-1,3-Dichloropropene	90	Not Detected	410	Not Detected
4-Methyl-2-pentanone	90	Not Detected	370	Not Detected
Toluene	90	300	340	1100
trans-1,3-Dichloropropene	90	Not Detected	410	Not Detected
1,1,2-Trichloroethane	90	Not Detected	490	Not Detected
Tetrachloroethene	90	Not Detected	610	Not Detected
2-Hexanone	360	Not Detected	1500	Not Detected

AIR TOXICS LTD.

Client Sample ID: Influent

Lab ID#: 0510242A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5102210	Date of Collection:	10/12/05
Dil. Factor:	179	Date of Analysis:	10/22/05 02:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	90	Not Detected	760	Not Detected
1,2-Dibromoethane (EDB)	90	Not Detected	690	Not Detected
Chlorobenzene	90	Not Detected	410	Not Detected
Ethyl Benzene	90	3200	390	14000
m,p-Xylene	90	10000	390	44000
o-Xylene	90	1000	390	4500
Styrene	90	Not Detected	380	Not Detected
Bromoform	90	Not Detected	920	Not Detected
Cumene	90	940	440	4600
1,1,2,2-Tetrachloroethane	90	Not Detected	610	Not Detected
Propylbenzene	90	1400	440	6700
4-Ethyltoluene	90	4600	440	23000
1,3,5-Trimethylbenzene	90	1700	440	8400
1,2,4-Trimethylbenzene	90	5000	440	25000
1,3-Dichlorobenzene	90	Not Detected	540	Not Detected
1,4-Dichlorobenzene	90	Not Detected	540	Not Detected
alpha-Chlorotoluene	90	Not Detected	460	Not Detected
1,2-Dichlorobenzene	90	Not Detected	540	Not Detected
1,2,4-Trichlorobenzene	360	Not Detected	2600	Not Detected
Hexachlorobutadiene	360	Not Detected	3800	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

Client Sample ID: Influent Duplicate

Lab ID#: 0510242A-01AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5102209	Date of Collection:	10/12/05
Dil. Factor:	536	Date of Analysis:	10/22/05 02:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	270	Not Detected	1300	Not Detected
Freon 114	270	Not Detected	1900	Not Detected
Chloromethane	1100	Not Detected	2200	Not Detected
Vinyl Chloride	270	Not Detected	680	Not Detected
1,3-Butadiene	270	Not Detected	590	Not Detected
Bromomethane	270	Not Detected	1000	Not Detected
Chloroethane	270	Not Detected	710	Not Detected
Freon 11	270	Not Detected	1500	Not Detected
Ethanol	1100	Not Detected	2000	Not Detected
Freon 113	270	Not Detected	2000	Not Detected
1,1-Dichloroethene	270	Not Detected	1100	Not Detected
Acetone	1100	Not Detected	2500	Not Detected
2-Propanol	1100	Not Detected	2600	Not Detected
Carbon Disulfide	270	Not Detected	830	Not Detected
3-Chloropropene	1100	Not Detected	3400	Not Detected
Methylene Chloride	270	Not Detected	930	Not Detected
Methyl tert-butyl ether	270	Not Detected	970	Not Detected
trans-1,2-Dichloroethene	270	Not Detected	1100	Not Detected
Hexane	270	22000	940	78000
1,1-Dichloroethane	270	Not Detected	1100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	270	Not Detected	790	Not Detected
cis-1,2-Dichloroethene	270	Not Detected	1100	Not Detected
Tetrahydrofuran	270	Not Detected	790	Not Detected
Chloroform	270	Not Detected	1300	Not Detected
1,1,1-Trichloroethane	270	Not Detected	1500	Not Detected
Cyclohexane	270	6300	920	22000
Carbon Tetrachloride	270	Not Detected	1700	Not Detected
2,2,4-Trimethylpentane	270	4200	1200	20000
Benzene	270	3600	860	11000
1,2-Dichloroethane	270	Not Detected	1100	Not Detected
Heptane	270	8400	1100	34000
Trichloroethene	270	Not Detected	1400	Not Detected
1,2-Dichloropropane	270	Not Detected	1200	Not Detected
1,4-Dioxane	1100	Not Detected	3900	Not Detected
Bromodichloromethane	270	Not Detected	1800	Not Detected
cis-1,3-Dichloropropene	270	Not Detected	1200	Not Detected
4-Methyl-2-pentanone	270	Not Detected	1100	Not Detected
Toluene	270	300	1000	1200
trans-1,3-Dichloropropene	270	Not Detected	1200	Not Detected
1,1,2-Trichloroethane	270	Not Detected	1500	Not Detected
Tetrachloroethene	270	Not Detected	1800	Not Detected
2-Hexanone	1100	Not Detected	4400	Not Detected

AIR TOXICS LTD.

Client Sample ID: Influent Duplicate

Lab ID#: 0510242A-01AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5102209	Date of Collection:	10/12/05
Dil. Factor:	536	Date of Analysis:	10/22/05 02:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	270	Not Detected	2300	Not Detected
1,2-Dibromoethane (EDB)	270	Not Detected	2000	Not Detected
Chlorobenzene	270	Not Detected	1200	Not Detected
Ethyl Benzene	270	3100	1200	14000
m,p-Xylene	270	9800	1200	42000
o-Xylene	270	1000	1200	4500
Styrene	270	Not Detected	1100	Not Detected
Bromoform	270	Not Detected	2800	Not Detected
Cumene	270	950	1300	4600
1,1,2,2-Tetrachloroethane	270	Not Detected	1800	Not Detected
Propylbenzene	270	1300	1300	6500
4-Ethyltoluene	270	4500	1300	22000
1,3,5-Trimethylbenzene	270	1700	1300	8400
1,2,4-Trimethylbenzene	270	4900	1300	24000
1,3-Dichlorobenzene	270	Not Detected	1600	Not Detected
1,4-Dichlorobenzene	270	Not Detected	1600	Not Detected
alpha-Chlorotoluene	270	Not Detected	1400	Not Detected
1,2-Dichlorobenzene	270	Not Detected	1600	Not Detected
1,2,4-Trichlorobenzene	1100	Not Detected	8000	Not Detected
Hexachlorobutadiene	1100	Not Detected	11000	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: Final Effluent

Lab ID#: 0510242A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5102208	Date of Collection:	10/12/05
Dil. Factor:	1.36	Date of Analysis:	10/22/05 01:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.68	Not Detected	3.4	Not Detected
Freon 114	0.68	Not Detected	4.8	Not Detected
Chloromethane	2.7	Not Detected	5.6	Not Detected
Vinyl Chloride	0.68	Not Detected	1.7	Not Detected
1,3-Butadiene	0.68	Not Detected	1.5	Not Detected
Bromomethane	0.68	Not Detected	2.6	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.68	Not Detected	3.8	Not Detected
Ethanol	2.7	Not Detected	5.1	Not Detected
Freon 113	0.68	Not Detected	5.2	Not Detected
1,1-Dichloroethene	0.68	Not Detected	2.7	Not Detected
Acetone	2.7	Not Detected	6.5	Not Detected
2-Propanol	2.7	Not Detected	6.7	Not Detected
Carbon Disulfide	0.68	Not Detected	2.1	Not Detected
3-Chloropropene	2.7	Not Detected	8.5	Not Detected
Methylene Chloride	0.68	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.68	Not Detected	2.4	Not Detected
trans-1,2-Dichloroethene	0.68	Not Detected	2.7	Not Detected
Hexane	0.68	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.68	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.68	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.68	Not Detected	2.7	Not Detected
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
Chloroform	0.68	Not Detected	3.3	Not Detected
1,1,1-Trichloroethane	0.68	Not Detected	3.7	Not Detected
Cyclohexane	0.68	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.68	Not Detected	4.3	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Benzene	0.68	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.68	Not Detected	2.8	Not Detected
Heptane	0.68	Not Detected	2.8	Not Detected
Trichloroethene	0.68	Not Detected	3.6	Not Detected
1,2-Dichloropropane	0.68	Not Detected	3.1	Not Detected
1,4-Dioxane	2.7	Not Detected	9.8	Not Detected
Bromodichloromethane	0.68	Not Detected	4.6	Not Detected
cis-1,3-Dichloropropene	0.68	Not Detected	3.1	Not Detected
4-Methyl-2-pentanone	0.68	Not Detected	2.8	Not Detected
Toluene	0.68	Not Detected	2.6	Not Detected
trans-1,3-Dichloropropene	0.68	Not Detected	3.1	Not Detected
1,1,2-Trichloroethane	0.68	Not Detected	3.7	Not Detected
Tetrachloroethene	0.68	Not Detected	4.6	Not Detected
2-Hexanone	2.7	Not Detected	11	Not Detected

AIR TOXICS LTD.

Client Sample ID: Final Effluent

Lab ID#: 0510242A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5102208	Date of Collection:	10/12/05
Dil. Factor:	1.36	Date of Analysis:	10/22/05 01:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.68	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.68	Not Detected	5.2	Not Detected
Chlorobenzene	0.68	Not Detected	3.1	Not Detected
Ethyl Benzene	0.68	Not Detected	3.0	Not Detected
m,p-Xylene	0.68	Not Detected	3.0	Not Detected
o-Xylene	0.68	Not Detected	3.0	Not Detected
Styrene	0.68	Not Detected	2.9	Not Detected
Bromoform	0.68	Not Detected	7.0	Not Detected
Cumene	0.68	Not Detected	3.3	Not Detected
1,1,2,2-Tetrachloroethane	0.68	Not Detected	4.7	Not Detected
Propylbenzene	0.68	Not Detected	3.3	Not Detected
4-Ethyltoluene	0.68	Not Detected	3.3	Not Detected
1,3,5-Trimethylbenzene	0.68	Not Detected	3.3	Not Detected
1,2,4-Trimethylbenzene	0.68	Not Detected	3.3	Not Detected
1,3-Dichlorobenzene	0.68	Not Detected	4.1	Not Detected
1,4-Dichlorobenzene	0.68	Not Detected	4.1	Not Detected
alpha-Chlorotoluene	0.68	Not Detected	3.5	Not Detected
1,2-Dichlorobenzene	0.68	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.7	Not Detected	20	Not Detected
Hexachlorobutadiene	2.7	Not Detected	29	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0510242A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5102206	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/22/05 12:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0510242A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5102206	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/22/05 12:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

Client Sample ID: Influent

Lab ID#: 0510242B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d102118	Date of Collection:	10/12/05
Dil. Factor:	179	Date of Analysis:	10/21/05 06:40 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	4.5	18	1300	5200

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	142	75-150

AIR TOXICS LTD.

Client Sample ID: Influent Duplicate

Lab ID#: 0510242B-01AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d102117	Date of Collection:	10/12/05
Dil. Factor:	536	Date of Analysis:	10/21/05 05:57 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	13	55	1300	5200

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	117	75-150

AIR TOXICS LTD.

Client Sample ID: Final Effluent

Lab ID#: 0510242B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d102116	Date of Collection:	10/12/05
Dil Factor:	1.36	Date of Analysis:	10/21/05 05:19 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.034	0.14	0.063	0.26

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	105	75-150

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0510242B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d102103	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 10/21/05 08:59 AM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	104	75-150

AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

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CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Contact Person: Rich Evans
Company: Eco-Solutions, Inc. Email:
Address: 1075 Andrew Dr. City: Westchester State: PA Zip: 19380
Phone: 610-431-8731 Fax: 610-431-2852
Collected by: (Signature)

Project Info:
P.O. #: NO 100 171
Project #:
Project Name: NWS Earle

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: BB
Date: 11/11/05
Pressurization Gas: (N) He

Lab I.D.	Field Sample I.D. (Location)	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	InFluent	11-9-05	13:00	T03 and T014			0.0	5.0
02A	Final EFFluent	11-9-05	12:55	T03 and T014			0.0	5.0

Relinquished by: (signature) Date/Time: [signature] 11-9-05 / 13:15
Received by: (signature) Date/Time: [signature] ATL 11/10/05 1000
Notes:

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8532 6086 4102	–	good	Yes No None	051120

Form 1288 rev.10

AIR TOXICS LTD.

Client Sample ID: Influent

Lab ID#: 0511210A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5111718	Date of Collection:	11/9/05
Dil. Factor:	10.7	Date of Analysis:	11/18/05 04:08 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	5.4	Not Detected	26	Not Detected
Freon 114	5.4	Not Detected	37	Not Detected
Chloromethane	21	Not Detected	44	Not Detected
Vinyl Chloride	5.4	21	14	54
1,3-Butadiene	5.4	Not Detected	12	Not Detected
Bromomethane	5.4	Not Detected	21	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	5.4	34	30	190
Ethanol	21	Not Detected	40	Not Detected
Freon 113	5.4	Not Detected	41	Not Detected
1,1-Dichloroethene	5.4	Not Detected	21	Not Detected
Acetone	21	22	51	54
2-Propanol	21	Not Detected	52	Not Detected
Carbon Disulfide	5.4	Not Detected	17	Not Detected
3-Chloropropene	21	Not Detected	67	Not Detected
Methylene Chloride	5.4	Not Detected	18	Not Detected
Methyl tert-butyl ether	5.4	Not Detected	19	Not Detected
trans-1,2-Dichloroethene	5.4	Not Detected	21	Not Detected
Hexane	5.4	470	19	1600
1,1-Dichloroethane	5.4	Not Detected	22	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	5.4	Not Detected	21	Not Detected
Tetrahydrofuran	5.4	Not Detected	16	Not Detected
Chloroform	5.4	Not Detected	26	Not Detected
1,1,1-Trichloroethane	5.4	Not Detected	29	Not Detected
Cyclohexane	5.4	310	18	1100
Carbon Tetrachloride	5.4	Not Detected	34	Not Detected
2,2,4-Trimethylpentane	5.4	200	25	920
Benzene	5.4	290	17	920
1,2-Dichloroethane	5.4	Not Detected	22	Not Detected
Heptane	5.4	540	22	2200
Trichloroethene	5.4	Not Detected	29	Not Detected
1,2-Dichloropropane	5.4	Not Detected	25	Not Detected
1,4-Dioxane	21	Not Detected	77	Not Detected
Bromodichloromethane	5.4	Not Detected	36	Not Detected
cis-1,3-Dichloropropene	5.4	Not Detected	24	Not Detected
4-Methyl-2-pentanone	5.4	Not Detected	22	Not Detected
Toluene	5.4	32	20	120
trans-1,3-Dichloropropene	5.4	Not Detected	24	Not Detected
1,1,2-Trichloroethane	5.4	Not Detected	29	Not Detected
Tetrachloroethene	5.4	Not Detected	36	Not Detected
2-Hexanone	21	Not Detected	88	Not Detected

AIR TOXICS LTD.

Client Sample ID: Influent

Lab ID#: 0511210A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5111718	Date of Collection:	11/9/05
Dil. Factor:	10.7	Date of Analysis:	11/18/05 04:08 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	5.4	Not Detected	46	Not Detected
1,2-Dibromoethane (EDB)	5.4	Not Detected	41	Not Detected
Chlorobenzene	5.4	Not Detected	25	Not Detected
Ethyl Benzene	5.4	440	23	1900
m,p-Xylene	5.4	1200	23	5400
o-Xylene	5.4	220	23	960
Styrene	5.4	Not Detected	23	Not Detected
Bromoform	5.4	Not Detected	55	Not Detected
Cumene	5.4	170	26	820
1,1,2,2-Tetrachloroethane	5.4	Not Detected	37	Not Detected
Propylbenzene	5.4	290	26	1400
4-Ethyltoluene	5.4	1300	26	6200
1,3,5-Trimethylbenzene	5.4	580	26	2800
1,2,4-Trimethylbenzene	5.4	1600	26	7800
1,3-Dichlorobenzene	5.4	Not Detected	32	Not Detected
1,4-Dichlorobenzene	5.4	Not Detected	32	Not Detected
alpha-Chlorotoluene	5.4	Not Detected	28	Not Detected
1,2-Dichlorobenzene	5.4	Not Detected	32	Not Detected
1,2,4-Trichlorobenzene	21	Not Detected	160	Not Detected
Hexachlorobutadiene	21	Not Detected	230	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

Client Sample ID: Final Effluent

Lab ID#: 0511210A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5111714	Date of Collection:	11/9/05
Dil. Factor:	1.36	Date of Analysis:	11/17/05 11:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.68	Not Detected	3.4	Not Detected
Freon 114	0.68	Not Detected	4.8	Not Detected
Chloromethane	2.7	Not Detected	5.6	Not Detected
Vinyl Chloride	0.68	Not Detected	1.7	Not Detected
1,3-Butadiene	0.68	Not Detected	1.5	Not Detected
Bromomethane	0.68	Not Detected	2.6	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.68	Not Detected	3.8	Not Detected
Ethanol	2.7	Not Detected	5.1	Not Detected
Freon 113	0.68	Not Detected	5.2	Not Detected
1,1-Dichloroethene	0.68	Not Detected	2.7	Not Detected
Acetone	2.7	Not Detected	6.5	Not Detected
2-Propanol	2.7	Not Detected	6.7	Not Detected
Carbon Disulfide	0.68	Not Detected	2.1	Not Detected
3-Chloropropene	2.7	Not Detected	8.5	Not Detected
Methylene Chloride	0.68	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.68	Not Detected	2.4	Not Detected
trans-1,2-Dichloroethene	0.68	Not Detected	2.7	Not Detected
Hexane	0.68	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.68	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.68	1.8	2.0	5.4
cis-1,2-Dichloroethene	0.68	Not Detected	2.7	Not Detected
Tetrahydrofuran	0.68	2.4	2.0	7.0
Chloroform	0.68	Not Detected	3.3	Not Detected
1,1,1-Trichloroethane	0.68	Not Detected	3.7	Not Detected
Cyclohexane	0.68	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.68	Not Detected	4.3	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Benzene	0.68	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.68	Not Detected	2.8	Not Detected
Heptane	0.68	Not Detected	2.8	Not Detected
Trichloroethene	0.68	Not Detected	3.6	Not Detected
1,2-Dichloropropane	0.68	Not Detected	3.1	Not Detected
1,4-Dioxane	2.7	Not Detected	9.8	Not Detected
Bromodichloromethane	0.68	Not Detected	4.6	Not Detected
cis-1,3-Dichloropropene	0.68	Not Detected	3.1	Not Detected
4-Methyl-2-pentanone	0.68	Not Detected	2.8	Not Detected
Toluene	0.68	Not Detected	2.6	Not Detected
trans-1,3-Dichloropropene	0.68	Not Detected	3.1	Not Detected
1,1,2-Trichloroethane	0.68	Not Detected	3.7	Not Detected
Tetrachloroethene	0.68	Not Detected	4.6	Not Detected
2-Hexanone	2.7	Not Detected	11	Not Detected

AIR TOXICS LTD.

Client Sample ID: Final Effluent

Lab ID#: 0511210A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5111714	Date of Collection:	11/9/05
Dil. Factor:	1.36	Date of Analysis:	11/17/05 11:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.68	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.68	Not Detected	5.2	Not Detected
Chlorobenzene	0.68	Not Detected	3.1	Not Detected
Ethyl Benzene	0.68	Not Detected	3.0	Not Detected
m,p-Xylene	0.68	Not Detected	3.0	Not Detected
o-Xylene	0.68	Not Detected	3.0	Not Detected
Styrene	0.68	Not Detected	2.9	Not Detected
Bromoform	0.68	Not Detected	7.0	Not Detected
Cumene	0.68	Not Detected	3.3	Not Detected
1,1,2,2-Tetrachloroethane	0.68	Not Detected	4.7	Not Detected
Propylbenzene	0.68	Not Detected	3.3	Not Detected
4-Ethyltoluene	0.68	Not Detected	3.3	Not Detected
1,3,5-Trimethylbenzene	0.68	Not Detected	3.3	Not Detected
1,2,4-Trimethylbenzene	0.68	Not Detected	3.3	Not Detected
1,3-Dichlorobenzene	0.68	Not Detected	4.1	Not Detected
1,4-Dichlorobenzene	0.68	Not Detected	4.1	Not Detected
alpha-Chlorotoluene	0.68	Not Detected	3.5	Not Detected
1,2-Dichlorobenzene	0.68	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.7	Not Detected	20	Not Detected
Hexachlorobutadiene	2.7	Not Detected	29	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0511210A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5111705	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/17/05 03:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0511210A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5111705	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/17/05 03:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

Client Sample ID: Influent

Lab ID#: 0511210B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d111810	Date of Collection:	11/9/05
Dil. Factor:	10.7	Date of Analysis:	11/18/05 01:10 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.27	1.1	120	480

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	135	75-150

AIR TOXICS LTD.

Client Sample ID: Final Effluent

Lab ID#: 0511210B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d111807	Date of Collection:	11/9/05
Dil. Factor:	1.36	Date of Analysis:	11/18/05 11:08 AM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.034	0.14	0.051	0.21

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	108	75-150

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0511210B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d111803	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/18/05 08:42 AM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	106	75-150

APPENDIX D
ANALYTICAL SUMMARY TABLES FOR SYSTEM WATER SAMPLES AND LABORATORY ANALYTICAL DATA

APPENDIX D
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH EXTRACTED VIA GROUNDWATER TREATMENT

BIOSLURPER UNIT 1		
TPH INFLUENT* (mg/L):	9	
TPH EFFLUENT* (mg/L):	0	
GALLONS GROUNDWATER TREATED:	6680	
* as per analytical	**9/21/2005**	
average if more than one sample		
	0.50	=POUNDS OF TPH

BIOSLURPER UNIT 2		
TPH INFLUENT* (mg/L):		
TPH EFFLUENT* (mg/L):		
GALLONS GROUNDWATER TREATED:	0	
* as per analytical	**Sept 2005 - Deactivated**	
average if more than one sample		
	0.00	=POUNDS OF TPH

POUNDS OF TPH=
Gallons Groundwater Treated * (3.785 L/gal) *(TPH INFLUENT (mg/L) -TPH EFFLUENT (mg/l))*0.001g/mg*0.002205 pounds/g)

APPENDIX D
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH EXTRACTED VIA GROUNDWATER TREATMENT

BIOSLURPER UNIT 1		
TPH INFLUENT* (mg/L):	6.8	
TPH EFFLUENT* (mg/L):	0	
GALLONS GROUNDWATER TREATED:	13,615	
* as per analytical **10/12/2005**		
average if more than one sample		
	0.77	=POUNDS OF TPH

BIOSLURPER UNIT 2		
TPH INFLUENT* (mg/L):		
TPH EFFLUENT* (mg/L):		
GALLONS GROUNDWATER TREATED:	0	
* as per analytical **Oct 2005 - Deactivated**		
average if more than one sample		
	0.00	=POUNDS OF TPH

POUNDS OF TPH=
Gallons Groundwater Treated * (3.785 L/gal) *(TPH INFLUENT (mg/L) -TPH EFFLUENT (mg/l))*0.001g/mg*0.002205 pounds/g)

APPENDIX D
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH EXTRACTED VIA GROUNDWATER TREATMENT

BIOSLURPER UNIT 1		
TPH INFLUENT* (mg/L):	35.9	
TPH EFFLUENT* (mg/L):	0	
GALLONS GROUNDWATER TREATED:	29,254	
* as per analytical **11/9/2005**		
average if more than one sample		
	8.77	=POUNDS OF TPH

BIOSLURPER UNIT 2		
TPH INFLUENT* (mg/L):		
TPH EFFLUENT* (mg/L):		
GALLONS GROUNDWATER TREATED:	0	
* as per analytical **Nov 2005 - Deactivated**		
average if more than one sample		
	0.00	=POUNDS OF TPH

POUNDS OF TPH=
Gallons Groundwater Treated * (3.785 L/gal) *(TPH INFLUENT (mg/L) -TPH EFFLUENT (mg/l))*0.001g/mg*0.002205 pounds/g)

I742

STL EDISON

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE ___ OF ___

Name (for report and invoice): Rich Evans
Company: ECOR Solutions, Inc.
Address: 1075 Andrew Drive Suite I
City: Westchester State: PA
Phone: 610-431-8731 Fax: 610-431-2852

Samplers Name (Printed): Bart Brophy
P.O. #: N0100171
Analysis Turnaround Time: Standard ☑ Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐

Site/Project Identification: NWS Earle, Coltsneck
State (Location of site): NJ: ☒ NY: ☐ Other:
Regulatory Program:

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: I742

Sample Identification	Date	Time	Matrix	No. of. Cont.	TPH 418-1	Sample Numbers
In Fluent	11-9-05	11:40	WW	1	1	686042
GAC 1 EFFluent	↓	11:40	WW	1	1	043
Final EFFluent	↓	11:35	WW	1	1	044

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____
Soil:
Water: X

3°

Special Instructions: None

Water Metals Filtered (Yes/No)? N/O

Relinquished by	Company	Date / Time	Received by	Company
1) Bart Brophy	ECOR Solut.	11-10-05	1) Ed Reynolds	STL
2) Ed Reynolds	STL	11/10/05	2)	STL
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

STL Edison

4

Site: NAWC Earle

Lab Job No: I742

Matrix: WATER

QA Batch: 8433

Total Petroleum Hydrocarbons (418.1)

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
686042	Influent	11/09/05	11/15/05	11/16/05	1.0	35.9
686043	GAC1_Effluent	11/09/05	11/15/05	11/16/05	1.0	ND
686044	Final_Effluent	11/09/05	11/15/05	11/16/05	1.0	ND

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 1.0 mg/l.

H162

STL Edison

STL EDISON

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE ___ OF ___

Name (for report and invoice): Rich Evans	Samplers Name (Printed): Bart Brophy	Site/Project Identification: NWS Earle
Company: ECOR Solutions, Inc.	P.O. #: N0100, 171	State (Location of site): NJ: ✓ NY: ☐ Other:
Address: 1075 Andrew Dr. Suite F	Analysis Turnaround Time: Standard ☐	Regulatory Program:
City: West Chester State: PA	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 610-431-8731 Fax: 610-431-2852		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: H162

Sample Identification	Date	Time	Matrix	No. of Cont.	TPH 4-18-1	Sample Numbers
Inflvent	10-12-05	11:20	WW	1	1	677302
GAC 1 EFFlvent	↓	11:15	WW	1	1	677303
Final EFFlvent	↓	11:10	WW	1	1	677304

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:
Water:

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	ECOR	10-12-05 1115	1) [signature]	SR
2) [signature]	SR	10-12-05 1255	2) [signature]	GR
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

Site: NWC Earle

Lab Job No: H162

Matrix: WATER

QA Batch: 8400

Total Petroleum Hydrocarbons (418.1)

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
677302	Influent	10/12/05	10/19/05	10/19/05	1.0	6.8
677303	Gac-1-Effluent	10/12/05	10/19/05	10/19/05	1.0	ND
677304	Final-Effluent	10/12/05	10/19/05	10/19/05	1.0	ND

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 1.0 mg/l.

STL EDISON
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 1

Name (for report and invoice): Rich Evans	Samplers Name (Printed): Bart Brophy	Site/Project Identification: NWS Earle Colts neck N.J.
Company: ECOR Solutions, Inc.	P.O. #: N0100171	State (Location of site): NJ: ☑ NY: ☐ Other:
Address: 1075 Andrew Drive Suite I	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City: West Chester State: PA 19380	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 610-431-8731 Fax: 610-431-2852		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: G005

Sample Identification	Date	Time	Matrix	No. of. Cont.	TPH 418-1	Sample Numbers
Final EFFluent	9-21-05	12:20	WW	1	1	671663
GAC1 EFFluent	↓	12:30	WW	1	1	671664
Inflvent	↓	12:25	WW	1	1	671665

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____ 7 = Other _____
Soil:
Water: ✓

Special Instructions

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) Bart Brophy	ECOR Solutions	09.22.05 1020	1) [illegible]	STL
2) [illegible]	STL	09.22.05 1120	2) [illegible]	STL
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

Site: NWS Earle

Matrix: WATER

Lab Job No: G005

QA Batch: 8367

Total Petroleum Hydrocarbons (418.1)

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
671663	Final-EFFluent	09/21/05	09/27/05	09/27/05	1.0	ND
671664	GAC1-EFFluent	09/21/05	09/27/05	09/27/05	1.0	ND
671665	Influent	09/21/05	09/27/05	09/27/05	1.0	9.0

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 1.0 mg/l.

APPENDIX E
WELL INSTALLATION LOGS
16MW-31 THROUGH 16MW-35
NOVEMBER 2005

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Page 1 of 1

Owner's Well No. 16MW-31

No.

Date Work Began 11/16/05, Ended 11/16/05

Local Permit Agency NJDEP

Permit No. _____ Permit Date _____

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DRILLING METHOD AIRKNIFE TO 4 FT HOLLOW STEM AUGER FLUID _____

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	2	Brown fine sandy soil, no odor, 0ppm
2	4	Brown fine sandy soil, no odor, 0ppm
4	6	Brown fine sand, moist, no odor, 0ppm Blow count 1,3,3,3
6	8	yellowish orange fine sand, gray clayey sand w/medium gravel, moist, no odor, 12 ppm Blow count 4,10,19,12
8	10	yellowish orange fine sand, wet, no odor, 1.6ppm Blow count 4,8,8,8
10	12	yellowish orange/brown fine sand, no odor, 1ppm Blow count 6,6,6,6
12	15	Brown/gray fine sand, wet, slight odor, 19ppm Blow count 2,3,9,9

TOTAL DEPTH OF BORING 17 (Feet)

TOTAL DEPTH OF COMPLETED WELL 13.10 (Feet)

WELL OWNER

Name US NAVY c/o EFANE

Mailing Address 10 Industrial Highway, MS #82

LESTER (CITY) PA (STATE) 19113 (ZIP)

WELL LOCATION

Address 201 Highway 34 South

City Colts Neck, NJ

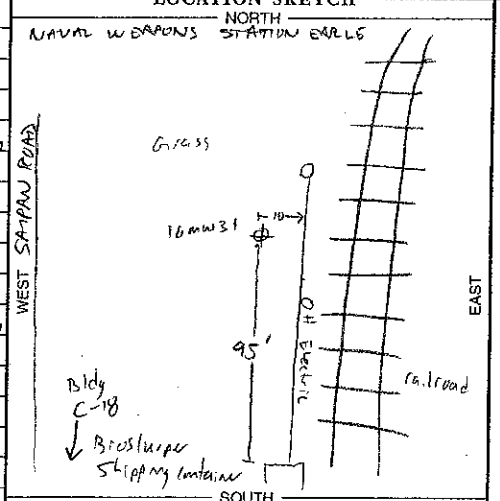
County Monmouth

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)

WATER SUPPLY

___ Domestic ___ Public

___ Irrigation ___ Industrial

MONITORING ___

TEST WELL ___

CATHODIC PROTECTION ___

HEAT EXCHANGE ___

DIRECT PUSH ___

INJECTION ___

VAPOR EXTRACTION ___

SPARGING ___

REMEDIATION ✓

OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 8 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 9.51 (Ft.) & DATE MEASURED 11/17/05

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	3	10	X				PVC	4	SCH 40	
3	13	10		X			PVC	4	SCH 40	0.010

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	0.5	✓			
0.5	2.5		✓		
2.5	13			✓	SAND #1

ATTACHMENTS (✓)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Richard Evans (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS _____ CITY _____ STATE _____ ZIP _____

Signed _____ (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED _____ LICENSE NUMBER _____

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Page 1 of 1

No.

Owner's Well No. 16MW-32

Date Work Began 11/16/05, Ended 11/16/05

Local Permit Agency NJDEP

Permit No. _____ Permit Date _____

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DRILLING METHOD AIR KNIFE TO 4 FT HOLLOW STEM AUGER FLUID _____

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION (Describe material, grain size, color, etc.)
0	2	Brown fine sandy soil, no odor, 0ppm
2	4	Brown fine sandy soil, no odor, 0ppm
4	6	Brown fine sand, poor recovery, odor, 21ppm Blow count 5, 9, 10, 9
6	8	Green/aqua fine sand, poor recovery, odor, 277ppm Blow count 1, 2, 6, 6
8	10	Green/aqua fine sand, wet, odor, 644 ppm Blow count 4, 6, 6, 6
10	12	Green/aqua fine sand, wet, odor, 338 ppm poor recovery, Blow count 2, 3, 2, 3
12	15	Yellow, green fine sand, odors, 21.9 ppm Blow count 2, 4, 8, 8

TOTAL DEPTH OF BORING 17 (Feet)

TOTAL DEPTH OF COMPLETED WELL 14.75 (Feet)

WELL OWNER

Name US Navy c/o EFANE

Mailing Address 10 Industrial Highway, MS #82

Lester (CITY) PA (STATE) 19113 (ZIP)

WELL LOCATION

Address 201 Highway 34 South

City Colts Neck, NJ

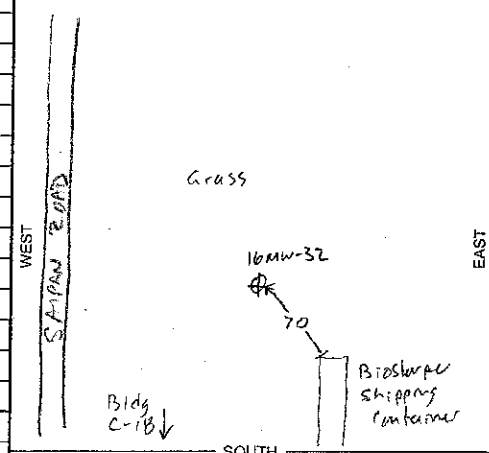
County Monmouth

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)

WATER SUPPLY

___ Domestic ___ Public

___ Irrigation ___ Industrial

MONITORING ___

TEST WELL ___

CATHODIC PROTECTION ___

HEAT EXCHANGE ___

DIRECT PUSH ___

INJECTION ___

VAPOR EXTRACTION ___

SPARGING ___

REMEDIATION ✓

OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 8 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 9.72 (Ft.) & DATE MEASURED 11/17/05

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	5	10	X				PVC	4	SCH 40	
5	15	10		X			PVC	4	SCH 40	0.010

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE: CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	0.5	✓			
0.5	4.5		✓		
4.5	15			✓	SAND #1

ATTACHMENTS (✓)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Richard Evans (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS _____ CITY _____ STATE _____ ZIP _____

Signed _____ (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED _____ LICENSE NUMBER _____

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Page 1 of 1

Owner's Well No. 16 MW-33

No. [redacted]

Date Work Began 11/16/05, Ended 11/17/05

Local Permit Agency NJDEP

Permit No. _____ Permit Date _____

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DRILLING METHOD Hollow Stem Auger DRILLING FLUID Air knife to 4 ft

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	2	Brown fine sandy soil, no odor
2	4	Brown fine sandy soil, no odor
4	6	Gray/yellowish orange fine sand, moist, odor 31.1 ppm, poor recovery Blow count 5,3,4,3
6	8	Green/yellowish orange fine sand, wet, odor, 106 ppm Blow count 5,6,4,5
8	10	Green/yellowish orange fine sand, wet, odor, 243 ppm Blow count 6,6,7,8
10	12	Gray/green fine sand, stained, wet, strong odor, 439 ppm Blow count 6,5,6,7
12	15	Green fine sand, stained, strong odor 88.1 ppm Blow count 3,4,9,11

TOTAL DEPTH OF BORING 17 (Feet)

TOTAL DEPTH OF COMPLETED WELL 14.75 (Feet)

WELL OWNER

Name US Navy c/o EFANE

Mailing Address 10 Industrial Highway, MS #82

Lester (CITY) PA (STATE) 19113 (ZIP)

WELL LOCATION

Address 201 Highway 34 South

City Colts Neck, NJ

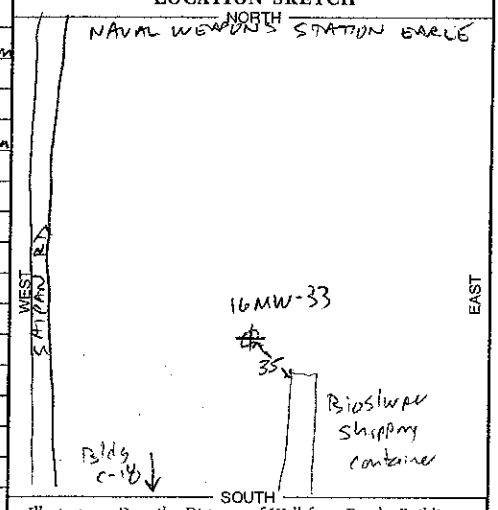
County Monmouth

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)

WATER SUPPLY
___ Domestic ___ Public
___ Irrigation ___ Industrial

MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ✓
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 6 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 9.52 LNAPL @ 8.42 (Ft.) & DATE MEASURED 11/18/05

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	5	10	X				PVC	4	SCH 40	
5	15	10		X			PVC	4	SCH 40	0.010

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	0.5	✓			
0.5	4.5		✓		
4.5	15			✓	SAND #1

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Richard Evans
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS _____ CITY _____ STATE _____ ZIP _____

Signed _____ (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED _____ LICENSE NUMBER _____

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Page 1 of 1

Owner's Well No. 16MW-34

No.

Date Work Began 11/16/05, Ended 11/17/05

Local Permit Agency NJDEP

Permit No. _____ Permit Date _____

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DRILLING METHOD AIR KNIFE TO 4 FT. HOLLOW STEM AUGER FLUID _____

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	1	4-6" asphalt, 6-8" concrete
1	4	Greenish fine sandy soil, no odors
4	6	Greenish gray fine sand, staining, poor recovery, moist, odors, 206 ppm Blow count 2, 4, 2, 6
6	8	Greenish gray fine sand w/some gravel, poor recovery, wet, odors, 174 ppm Blow count 9, 13, 9, 10
8	10	Greenish gray and yellowish orange fine sand, poor recovery, stained, wet, odors, 191 ppm Blow count 2, 4, 4, 5
10	12	Greenish gray and yellowish orange fine sand, wet, stained, odors, 445 ppm Blow count 2, 4, 7, 7
12	15	Yellowish orange fine sand, wet, odor, 71.7 ppm Blow count 2, 4, 8, 8

TOTAL DEPTH OF BORING 17 (Feet)

TOTAL DEPTH OF COMPLETED WELL 14.75 (Feet)

WELL OWNER

Name US NAVY C/O EFANE

Mailing Address 10 Industrial Highway, MS #82

Lester (CITY) PA (STATE) 19113 (ZIP)

WELL LOCATION

Address 201 Highway 34 South

City Colts Neck, NJ

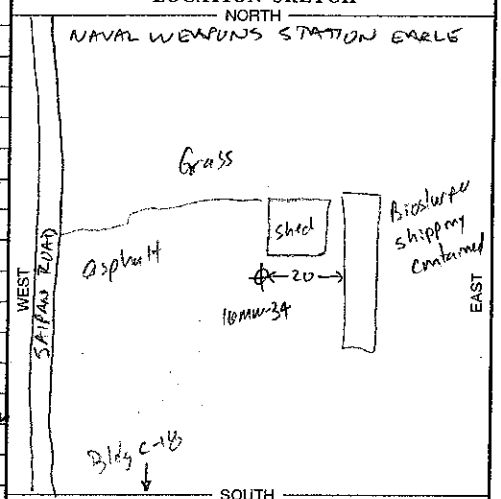
County Monmouth

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)

WATER SUPPLY

___ Domestic ___ Public

___ Irrigation ___ Industrial

MONITORING ___

TEST WELL ___

CATHODIC PROTECTION ___

HEAT EXCHANGE ___

DIRECT PUSH ___

INJECTION ___

VAPOR EXTRACTION ___

SPARGING ___

REMEDIATION ✓

OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 6 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 8.32 (Ft.) & DATE MEASURED 11/18/05

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	5	10	X				PVC	4	SCH 40	
5	15	10		X			PVC	4	SCH 40	0.010

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	0.5	✓			
0.5	4.5		✓		
4.5	15			✓	SAND #1

ATTACHMENTS (✓)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Richard Evans
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS _____ CITY _____ STATE _____ ZIP _____

Signed _____ (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED _____ LICENSE NUMBER _____

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Page 1 of 1

Owner's Well No. 16MW-35

No.

Date Work Began 11/16/05, Ended 11/17/05

Local Permit Agency NJDEP

Permit No. _____ Permit Date _____

GEOLOGIC LOG

ORIENTATION (✓) ✓ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DRILLING METHOD AIR KNIFE TO 4 FT HOLLOW STEM AUGER FLUID _____

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	1	4-6" asphalt, 6-8" concrete
1	4	Greenish fine sandy soil, no odors
4	6	Greenish gray fine sand w/ fine pebbles, moist, very poor recovery, odors, 30.1 ppm Blow count 3,4,4,3
6	8	Greenish gray and yellowish orange fine sand, poor recovery, staining, odors, 269 ppm Blow count 8,8,6,9
8	10	Greenish gray clayey sand, wet, odors, 405 ppm Blow count 3,4,7,6
10	12	Greenish gray fine sand, wet, odors, 400 ppm Blow count 6,8,10,12
12	15	Greenish gray clayey fine sand, wet, poor recovery, odors, 63.1 ppm Blow count 2,2,4,2

TOTAL DEPTH OF BORING _____ (Feet)

TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER

Name US NAVY C/O EFANE

Mailing Address 10 Industrial Highway, MS #82

Lester (CITY) PA (STATE) 19113 (ZIP)

WELL LOCATION

Address 201 Highway 34 South

City Colts Neck NJ

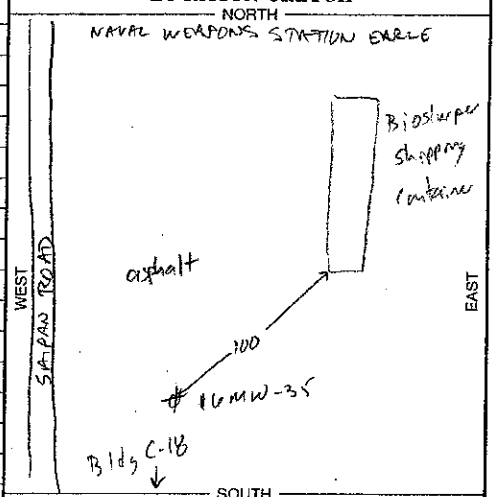
County Monmouth

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)

✓ NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)

WATER SUPPLY

___ Domestic ___ Public

___ Irrigation ___ Industrial

MONITORING ___

TEST WELL ___

CATHODIC PROTECTION ___

HEAT EXCHANGE ___

DIRECT PUSH ___

INJECTION ___

VAPOR EXTRACTION ___

SPARGING ___

REMEDIATION ✓

OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 8 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 8.95 LNAPL @ 8.10 (Ft.) & DATE MEASURED 11/18/05

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	5	10	X				PVC	4	SCH 40	
5	15	10		X			PVC	4	SCH 40	0.010

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	0.5	✓			
0.5	4.5		✓		
4.5	15				SAND #1

ATTACHMENTS (✓)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Richard Evans (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS _____ CITY _____ STATE _____ ZIP _____

Signed _____ (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED _____ LICENSE NUMBER _____

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

APPENDIX F
LABORATORY ANALYTICAL DATA FROM NOVEMBER 2005 MONITORING WELL INSTALLATION

C5K180102

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: ECOR SOLUTIONS	Project Manager: PAT SCHAUBLE	Date: 11/16/05	Chain of Custody Number: 227640
Address: 1075 ANDREW DRIVE SUITE I	Telephone Number (Area Code)/Fax Number: 610 431 8731	Lab Number: C5K180102	Page 1 of 1
City: WEST CHESTER; State: PA; Zip Code: 19380	Site Contact: RICH EVANS	Lab Contact: KATHY BURT	
Project Name and Location (State): NWS EARLE BIXLUREPR COLTSNECK, NJ	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TCLVOA + 10 TICs	LEAD (8310)	MOISTURE, TOC	Special Instructions/ Conditions of Receipt
16MW32@8-10'	11/16/05	15:30 ~~16:30~~				X	X						X	X	X	1 ENCORE, 1 4oz JAR
16MW31@8-10'	11/16/05	15:45				X	X						X	X	X	1
16MW31@12-15'	11/16/05	15:50				X	X						X	X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other_____

QC Requirements (Specify):

1. Relinquished By: [signature]	Date: 11/16/05	Time: 16:35	1. Received By:	Date:	Time:
2. Relinquished By:	Date:	Time:	2. Received By: Patrick R Durst	Date: 11/17/05	Time: 0930
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

ECOR Solutions Inc

Client Sample ID: 16MW32@8-10

GC/MS Volatiles

Lot-Sample #...:	C5K180102-001	**Work Order #...:**	HQGRV1AA	**Matrix.....:**	SOLID
Date Sampled...:	11/16/05	**Date Received..:**	11/17/05	**MS Run #.....:**	
Prep Date.....:	11/28/05	**Analysis Date..:**	11/28/05		
Prep Batch #...:	5332114	**Analysis Time..:**	15:13		
Dilution Factor:	8.7	**Initial Wgt/Vol:**	5.75 g	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	16	**Analyst ID.....:**	001562	**Instrument ID..:**	HP5
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10000	ug/kg	2600
Benzene	ND	2600	ug/kg	300
Bromodichloromethane	ND	2600	ug/kg	240
Bromoform	ND	2600	ug/kg	220
Bromomethane	ND	2600	ug/kg	470
2-Butanone	ND	2600	ug/kg	1800
Carbon disulfide	ND	2600	ug/kg	590
Carbon tetrachloride	ND	2600	ug/kg	350
Chlorobenzene	ND	2600	ug/kg	290
Chloroethane	ND	2600	ug/kg	370
Chloroform	ND	2600	ug/kg	320
Chloromethane	ND	2600	ug/kg	430
Cyclohexane	ND	2600	ug/kg	410
Dibromochloromethane	ND	2600	ug/kg	300
1,2-Dibromo-3-chloro-propane	ND	2600	ug/kg	620
1,2-Dibromoethane	ND	2600	ug/kg	280
1,3-Dichlorobenzene	ND	2600	ug/kg	300
1,4-Dichlorobenzene	ND	2600	ug/kg	330
1,2-Dichlorobenzene	ND	2600	ug/kg	320
Dichlorodifluoromethane	ND	2600	ug/kg	480
1,1-Dichloroethane	ND	2600	ug/kg	330
1,2-Dichloroethane	ND	2600	ug/kg	280
1,1-Dichloroethene	ND	2600	ug/kg	460
cis-1,2-Dichloroethene	ND	2600	ug/kg	350
trans-1,2-Dichloroethene	ND	2600	ug/kg	380
1,2-Dichloropropane	ND	2600	ug/kg	380
cis-1,3-Dichloropropene	ND	2600	ug/kg	330
trans-1,3-Dichloropropene	ND	2600	ug/kg	240
Ethylbenzene	**2300 J**	**2600**	**ug/kg**	**310**
2-Hexanone	ND	2600	ug/kg	620
Isopropylbenzene	**1700 J**	**2600**	**ug/kg**	**340**
Methyl acetate	ND	2600	ug/kg	680
Methylene chloride	ND	2600	ug/kg	690
Methylcyclohexane	**2900**	**2600**	**ug/kg**	**370**
4-Methyl-2-pentanone	ND	2600	ug/kg	760
Methyl tert-butyl ether	ND	2600	ug/kg	260

(Continued on next page)

ECOR Solutions Inc

Client Sample ID: 16MW32@8-10

GC/MS Volatiles

Lot-Sample #...: C5K180102-001 Work Order #...: HQGRV1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	2600	ug/kg	270
1,1,2,2-Tetrachloroethane	ND	2600	ug/kg	360
1,2,4-Trichloro-benzene	ND	2600	ug/kg	470
Tetrachloroethene	ND	2600	ug/kg	840
1,1,1-Trichloroethane	ND	2600	ug/kg	350
1,1,2-Trichloroethane	ND	2600	ug/kg	310
Trichloroethene	ND	2600	ug/kg	300
Trichlorofluoromethane	ND	2600	ug/kg	640
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2600	ug/kg	520
Toluene	ND	2600	ug/kg	300
Vinyl chloride	ND	2600	ug/kg	380
Xylenes (total)	**11000**	**7800**	**ug/kg**	**970**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	NC,DIL	(52 - 124)
Toluene-d8	NC,DIL	(72 - 127)
4-Bromofluorobenzene	NC,DIL	(63 - 120)
Dibromofluoromethane	NC,DIL	(68 - 121)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ECOR Solutions Inc

16MW32@8-10

GC/MS Volatiles

Lot-Sample #: C5K180102-001 **Work Order #:** HQGRV1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT			RETENTION TIME	UNITS
Unknown Substituted Benzene		25000	J	M	11.076	ug/kg
Unknown Alkane		36000	J	M	11.18	ug/kg
Unknown Substituted Benzene		34000	J	M	11.539	ug/kg
Unknown Cycloalkane		20000	J	M	11.752	ug/kg
Unknown Substituted Benzene		33000	J	M	11.952	ug/kg
Unknown Substituted Benzene		30000	J	M	12.184	ug/kg
Unknown Substituted Benzene		36000	J	M	12.244	ug/kg
Unknown Alkane		29000	J	M	12.372	ug/kg
Unknown Substituted Benzene		19000	J	M	12.421	ug/kg
Unknown Substituted Benzene		35000	J	M	12.543	ug/kg
Unknown Substituted Benzene		24000	J	M	12.616	ug/kg
Unknown Hydrocarbon		33000	J	M	12.755	ug/kg
Unknown Hydrocarbon		22000	J	M	12.847	ug/kg
Unknown Cyclolkane		28000	J	M	12.95	ug/kg
Unknown Substituted Benzene		32000	J	M	13.06	ug/kg
Unknown Substituted Benzene		41000	J	M	13.145	ug/kg
Unknown Hydrocarbon		26000	J	M	13.315	ug/kg
Unknown Hydrocarbon		69000	J	M	13.479	ug/kg
Unknown Substituted Naphthalen		30000	J	M	13.644	ug/kg
Unknown Hydrocarbon		67000	J	M	13.857	ug/kg
Naphthalene	91-20-3	38000	NJ	M	14.106	ug/kg
Unknown Substituted Naphthalen		24000	J	M	14.203	ug/kg
Unknown Hydrocarbon		57000	J	M	14.301	ug/kg
Unknown Aromatic		27000	J	M	14.495	ug/kg
Unknown Substituted Naphthalen		51000	J	M	14.69	ug/kg
Unknown		19000	J	M	14.885	ug/kg
Unknown Aromatic		36000	J	M	15.025	ug/kg
Unknown Substituted Naphthalen		71000	J	M	15.231	ug/kg
Unknown Substituted Naphthalen		43000	J	M	15.432	ug/kg
Unknown Substituted Naphthalen		23000	J	M	16.053	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

ECOR Solutions Inc

Client Sample ID: 16MW3208-10

TOTAL Metals

Lot-Sample #...: C5K180102-001 **Matrix.....:** SOLID
Date Sampled...: 11/16/05 **Date Received..:** 11/17/05
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5323043						
Lead	**2.2**	**0.36**	**mg/kg**	**SW846 6010B**	**11/19-11/20/05**	**HQGRV1AC**
		Dilution Factor: 1		Analysis Time..: 16:50	Analyst ID.....: 402249	
		Instrument ID..: TRACEICP		MS Run #.....: 5323027	MDL.....: 0.19	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 513179

Date: 11/28/2005

CUSTOMER: STL Pittsburgh Laboratory | PROJECT: ECOR NAVAL STATION E | ATTN: Chris Kovitch

Customer Sample ID: 16MW32DB-10
Date Sampled.....: 11/16/2005
Time Sampled.....: 00:00
Sample Matrix.....: Solid

Laboratory Sample ID: 513179-1
Date Received.....: 11/19/2005
Time Received.....: 10:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW 9071B	Total Recoverable Petroleum Hydrocarbons, Solid	4200	60	mg/Kg	11/25/05	als

ECOR Solutions Inc

Client Sample ID: 16MW3108-10

GC/MS Volatiles

Lot-Sample #...:	C5K180102-002	**Work Order #...:**	HQGR01AA	**Matrix.....:**	SOLID
Date Sampled...:	11/16/05	**Date Received..:**	11/17/05	**MS Run #.....:**	
Prep Date.....:	11/28/05	**Analysis Date..:**	11/28/05		
Prep Batch #...:	5332114	**Analysis Time..:**	14:47		
Dilution Factor:	0.93	**Initial Wgt/Vol:**	5.38 g	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	14	**Analyst ID.....:**	001562	**Instrument ID..:**	HP5
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**300 J**	**1100**	**ug/kg**	**270**
Benzene	ND	270	ug/kg	31
Bromodichloromethane	ND	270	ug/kg	25
Bromoform	ND	270	ug/kg	23
Bromomethane	ND	270	ug/kg	49
2-Butanone	ND	270	ug/kg	180
Carbon disulfide	ND	270	ug/kg	61
Carbon tetrachloride	ND	270	ug/kg	36
Chlorobenzene	ND	270	ug/kg	30
Chloroethane	ND	270	ug/kg	39
Chloroform	ND	270	ug/kg	33
Chloromethane	ND	270	ug/kg	45
Cyclohexane	ND	270	ug/kg	42
Dibromochloromethane	ND	270	ug/kg	31
1,2-Dibromo-3-chloro-propane	ND	270	ug/kg	65
1,2-Dibromoethane	ND	270	ug/kg	29
1,3-Dichlorobenzene	ND	270	ug/kg	31
1,4-Dichlorobenzene	ND	270	ug/kg	34
1,2-Dichlorobenzene	ND	270	ug/kg	33
Dichlorodifluoromethane	ND	270	ug/kg	50
1,1-Dichloroethane	ND	270	ug/kg	35
1,2-Dichloroethane	**32 J**	**270**	**ug/kg**	**29**
1,1-Dichloroethene	ND	270	ug/kg	48
cis-1,2-Dichloroethene	ND	270	ug/kg	36
trans-1,2-Dichloroethene	ND	270	ug/kg	39
1,2-Dichloropropane	ND	270	ug/kg	40
cis-1,3-Dichloropropene	ND	270	ug/kg	34
trans-1,3-Dichloropropene	ND	270	ug/kg	25
Ethylbenzene	ND	270	ug/kg	33
2-Hexanone	ND	270	ug/kg	64
Isopropylbenzene	ND	270	ug/kg	35
Methyl acetate	ND	270	ug/kg	71
Methylene chloride	ND	270	ug/kg	72
Methylcyclohexane	ND	270	ug/kg	38
4-Methyl-2-pentanone	ND	270	ug/kg	79
Methyl tert-butyl ether	ND	270	ug/kg	27

(Continued on next page)

ECOR Solutions Inc

Client Sample ID: 16MW31@8-10

GC/MS Volatiles

Lot-Sample #...: C5K180102-002 Work Order #...: HQGR01AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	270	ug/kg	28
1,1,2,2-Tetrachloroethane	ND	270	ug/kg	38
1,2,4-Trichloro-benzene	ND	270	ug/kg	49
Tetrachloroethene	ND	270	ug/kg	88
1,1,1-Trichloroethane	ND	270	ug/kg	36
1,1,2-Trichloroethane	ND	270	ug/kg	32
Trichloroethene	ND	270	ug/kg	32
Trichlorofluoromethane	ND	270	ug/kg	67
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	270	ug/kg	54
Toluene	ND	270	ug/kg	31
Vinyl chloride	ND	270	ug/kg	40
Xylenes (total)	ND	810	ug/kg	100

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	76	(52 - 124)
Toluene-d8	91	(72 - 127)
4-Bromofluorobenzene	91	(63 - 120)
Dibromofluoromethane	80	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ECOR Solutions Inc

16MW31@8-10

GC/MS Volatiles

Lot-Sample #: C5K180102-002 **Work Order #:** HQGR01AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

ECOR Solutions Inc

Client Sample ID: 16MW3108-10

TOTAL Metals

Lot-Sample #...: C5K180102-002 **Matrix.....:** SOLID
Date Sampled...: 11/16/05 **Date Received..:** 11/17/05
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5323043						
Lead	**2.6**	**0.35**	**mg/kg**	**SW846 6010B**	**11/19-11/20/05**	**HQGR01AC**
		Dilution Factor: 1		Analysis Time..: 16:39	Analyst ID.....: 402249	
		Instrument ID..: TRACEICP		MS Run #.....: 5323027	MDL.....: 0.18	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 513179

Date: 11/28/2005

CUSTOMER: STL Pittsburgh Laboratory PROJECT: ECOR NAVAL STATION E ATTN: Chris Kovitch

Customer Sample ID: 16MW3108-10
Date Sampled.....: 11/16/2005
Time Sampled.....: 00:00
Sample Matrix.....: Solid

Laboratory Sample ID: 513179-2
Date Received.....: 11/19/2005
Time Received.....: 10:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW 9071B	Total Recoverable Petroleum Hydrocarbons, Solid	<60	60	mg/Kg	11/25/05	als

ECOR Solutions Inc

Client Sample ID: 16MW31@12-15

GC/MS Volatiles

Lot-Sample #...:	C5K180102-003	Work Order #...:	HQGR11AA	Matrix.....:	SOLID
Date Sampled...:	11/16/05	Date Received..:	11/17/05	MS Run #.....:	
Prep Date.....:	11/28/05	Analysis Date..:	11/28/05		
Prep Batch #...:	5332114	Analysis Time..:	13:28		
Dilution Factor:	0.89	Initial Wgt/Vol:	5 g	Final Wgt/Vol..:	5 mL
% Moisture.....:	16	Analyst ID.....:	001562	Instrument ID..:	HP5
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**300 J**	**1100**	**ug/kg**	**260**
Benzene	ND	260	ug/kg	30
Bromodichloromethane	ND	260	ug/kg	24
Bromoform	ND	260	ug/kg	22
Bromomethane	ND	260	ug/kg	47
2-Butanone	ND	260	ug/kg	180
Carbon disulfide	ND	260	ug/kg	59
Carbon tetrachloride	ND	260	ug/kg	35
Chlorobenzene	ND	260	ug/kg	30
Chloroethane	ND	260	ug/kg	38
Chloroform	ND	260	ug/kg	33
Chloromethane	ND	260	ug/kg	43
Cyclohexane	ND	260	ug/kg	41
Dibromochloromethane	ND	260	ug/kg	31
1,2-Dibromo-3-chloro-propane	ND	260	ug/kg	63
1,2-Dibromoethane	ND	260	ug/kg	28
1,3-Dichlorobenzene	ND	260	ug/kg	30
1,4-Dichlorobenzene	ND	260	ug/kg	33
1,2-Dichlorobenzene	ND	260	ug/kg	32
Dichlorodifluoromethane	ND	260	ug/kg	49
1,1-Dichloroethane	ND	260	ug/kg	34
1,2-Dichloroethane	ND	260	ug/kg	28
1,1-Dichloroethene	ND	260	ug/kg	46
cis-1,2-Dichloroethene	ND	260	ug/kg	35
trans-1,2-Dichloroethene	ND	260	ug/kg	38
1,2-Dichloropropane	ND	260	ug/kg	38
cis-1,3-Dichloropropene	ND	260	ug/kg	33
trans-1,3-Dichloropropene	ND	260	ug/kg	25
Ethylbenzene	ND	260	ug/kg	32
2-Hexanone	ND	260	ug/kg	63
Isopropylbenzene	ND	260	ug/kg	34
Methyl acetate	ND	260	ug/kg	69
Methylene chloride	ND	260	ug/kg	70
Methylcyclohexane	ND	260	ug/kg	37
4-Methyl-2-pentanone	ND	260	ug/kg	77
Methyl tert-butyl ether	ND	260	ug/kg	26

(Continued on next page)

ECOR Solutions Inc

Client Sample ID: 16MW31@12-15

GC/MS Volatiles

Lot-Sample #...: C5K180102-003 **Work Order #...:** HQGR11AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	260	ug/kg	28
1,1,2,2-Tetrachloroethane	ND	260	ug/kg	37
1,2,4-Trichloro-benzene	ND	260	ug/kg	48
Tetrachloroethene	ND	260	ug/kg	85
1,1,1-Trichloroethane	ND	260	ug/kg	35
1,1,2-Trichloroethane	ND	260	ug/kg	31
Trichloroethene	ND	260	ug/kg	31
Trichlorofluoromethane	ND	260	ug/kg	65
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	260	ug/kg	53
Toluene	ND	260	ug/kg	31
Vinyl chloride	ND	260	ug/kg	39
Xylenes (total)	ND	790	ug/kg	98

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	78	(52 - 124)
Toluene-d8	92	(72 - 127)
4-Bromofluorobenzene	91	(63 - 120)
Dibromofluoromethane	82	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ECOR Solutions Inc

16MW31@12-15

GC/MS Volatiles

Lot-Sample #: C5K180102-003 **Work Order #:** HQGR11AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

ECOR Solutions Inc

Client Sample ID: 16MW31@12-15

TOTAL Metals

Lot-Sample #...: C5K180102-003 **Matrix.....:** SOLID
Date Sampled...: 11/16/05 **Date Received..:** 11/17/05
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5323043						
Lead	**1.9**	**0.36**	**mg/kg**	**SW846 6010B**	**11/19-11/20/05**	**HQGR11AC**
		Dilution Factor: 1		Analysis Time..: 16:44	Analyst ID.....: 402249	
		Instrument ID..: TRACEICP		MS Run #.....: 5323027	MDL.....: 0.19	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 513179

Date: 11/28/2005

CUSTOMER: STL Pittsburgh Laboratory | PROJECT: ECOR NAVAL STATION E | ATTN: Chris Kovitch

Customer Sample ID: 16MW31G12-15
Date Sampled.....: 11/16/2005
Time Sampled.....: 00:00
Sample Matrix.....: Solid

Laboratory Sample ID: 513179-3
Date Received.....: 11/19/2005
Time Received.....: 10:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW 9071B	Total Recoverable Petroleum Hydrocarbons, Solid	<60	60	mg/Kg	11/25/05	als

C5K180177

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	ELOR SOLUTIONS
Address	1075 ANDREW DRIVE SUITE I
City	WEST CHESTER
State	PA
Zip Code	19380
Project Name and Location (State)	NWS EARLE BIOSLURPER COLTSNECK, NJ
Contract/Purchase Order/Quote No.	
Project Manager	PAT SCHAUBLE
Telephone Number (Area Code)/Fax Number	(610) 431 8731
Site Contact	RICH EVANS
Carrier/Waybill Number	
Lab Contact	KATHY BORT
Date	11/17/05
Lab Number	C5K180177
Chain of Custody Number	227639
Page	1 of 1

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): TCL VOA + 10 TICs	Lead (total), TPH, Naphthalene		Ignitability	pH	Full TCLP 1311	Reactive cyanide/sulfide	PCBs 8082					Special Instructions/ Conditions of Receipt
16MW33@ 6-8'	11/17/05	12:35				X		X							X	X											
16 MW33@ 10-12'	11/17/05	13:00				X		X							X	X											1 encore, 1 402 jar
16 MW34@ 6-8'	11/17/05	13:05				X		X							X	X											
16 MW34@ 10-12'	11/17/05	13:15				X	DUP X	X							X	X											
16 MW35@ 8-10'	11/17/05	13:55				X		X							X	X											
DRILL CUTTINGS	11/17/05	14:00				X		X										X	X	X	X	X					3 8oz jars

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time
1. Relinquished By: [signature]	11/17/05	15:00
2. Relinquished By		
3. Relinquished By		

	Date	Time
1. Received By		
2. Received By: Patrick R Faust	11/18/05	0905 ~~0920~~
3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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ECOR/Naval Station Earle

Percent Solids

Lab Name: STL PITTSBURGH
Client Name: ECOR Solutions Inc
Matrix: SOLID

Method: MCAWW 160.3 MOD
Lot Number: C5K180177

Total Residue as Percent Solids

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
16MW33@6-8	C5K180177 001	HQHM91AD	84.3	%	1.0	1	11/28/2005 - 11/29/2005 08:04	5332294
16MW33@10-12	C5K180177 002	HQHNC1A	79.7	%	1.0	1	11/28/2005 - 11/29/2005 08:04	5332294
16MW34@6-8	C5K180177 003	HQHND1A	87.3	%	1.0	1	11/28/2005 - 11/29/2005 08:04	5332294
16MW34@10-12	C5K180177 004	HQHNE1A	82.7	%	1.0	1	11/28/2005 - 11/29/2005 08:04	5332294
16MW35@8-10	C5K180177 005	HQHNJ1AD	84.5	%	1.0	1	11/28/2005 - 11/29/2005 08:04	5332294

ECOR Solutions Inc

Client Sample ID: 16MW33@6-8

GC/MS Volatiles

Lot-Sample #...:	C5K180177-001	Work Order #...:	HQHM91AA	Matrix.....:	SOLID
Date Sampled...:	11/17/05	Date Received..:	11/18/05	MS Run #.....:	
Prep Date.....:	11/29/05	Analysis Date..:	11/29/05		
Prep Batch #...:	5333184	Analysis Time..:	17:10		
Dilution Factor:	1.9	Initial Wgt/Vol:	5.27 g	Final Wgt/Vol..:	5 mL
% Moisture.....:	16	Analyst ID.....:	001562	Instrument ID..:	HP5
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2300	ug/kg	560
Benzene	ND	560	ug/kg	64
Bromodichloromethane	ND	560	ug/kg	52
Bromoform	ND	560	ug/kg	47
Bromomethane	ND	560	ug/kg	100
2-Butanone	ND	560	ug/kg	380
Carbon disulfide	ND	560	ug/kg	130
Carbon tetrachloride	ND	560	ug/kg	76
Chlorobenzene	ND	560	ug/kg	63
Chloroethane	ND	560	ug/kg	81
Chloroform	ND	560	ug/kg	70
Chloromethane	ND	560	ug/kg	93
Cyclohexane	ND	560	ug/kg	88
Dibromochloromethane	ND	560	ug/kg	65
1,2-Dibromo-3-chloro-propane	ND	560	ug/kg	130
1,2-Dibromoethane	ND	560	ug/kg	61
1,3-Dichlorobenzene	ND	560	ug/kg	65
1,4-Dichlorobenzene	ND	560	ug/kg	71
1,2-Dichlorobenzene	ND	560	ug/kg	69
Dichlorodifluoromethane	ND	560	ug/kg	100
1,1-Dichloroethane	ND	560	ug/kg	72
1,2-Dichloroethane	ND	560	ug/kg	61
1,1-Dichloroethene	ND	560	ug/kg	99
cis-1,2-Dichloroethene	ND	560	ug/kg	76
trans-1,2-Dichloroethene	ND	560	ug/kg	82
1,2-Dichloropropane	ND	560	ug/kg	82
cis-1,3-Dichloropropene	ND	560	ug/kg	71
trans-1,3-Dichloropropene	ND	560	ug/kg	53
Ethylbenzene	**170 J**	**560**	**ug/kg**	**68**
2-Hexanone	ND	560	ug/kg	130
Isopropylbenzene	**150 J**	**560**	**ug/kg**	**74**
Methyl acetate	ND	560	ug/kg	150
Methylene chloride	ND	560	ug/kg	150
Methylcyclohexane	**430 J**	**560**	**ug/kg**	**80**
4-Methyl-2-pentanone	ND	560	ug/kg	170
Methyl tert-butyl ether	ND	560	ug/kg	56

(Continued on next page)

ECOR Solutions Inc

Client Sample ID: 16MW33@6-8

GC/MS Volatiles

Lot-Sample #...: C5K180177-001 Work Order #...: HQHM91AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	560	ug/kg	59
1,1,2,2-Tetrachloroethane	ND	560	ug/kg	79
1,2,4-Trichloro-benzene	ND	560	ug/kg	100
Tetrachloroethene	ND	560	ug/kg	180
1,1,1-Trichloroethane	ND	560	ug/kg	75
1,1,2-Trichloroethane	ND	560	ug/kg	67
Trichloroethene	ND	560	ug/kg	66
Trichlorofluoromethane	ND	560	ug/kg	140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	560	ug/kg	110
Toluene	ND	560	ug/kg	65
Vinyl chloride	ND	560	ug/kg	83
Xylenes (total)	**800 J**	**1700**	**ug/kg**	**210**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	71	(52 - 124)
Toluene-d8	79	(72 - 127)
4-Bromofluorobenzene	82	(63 - 120)
Dibromofluoromethane	73	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ECOR Solutions Inc

16MW33@6-8

GC/MS Volatiles

Lot-Sample #: C5K180177-001 **Work Order #:** HQHM91AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown Alkane		3900 J	M	11.181	ug/kg
Unknown Substituted Benzene		5400 J	M	11.533	ug/kg
Unknown Substituted Benzene		2200 J	M	11.077	ug/kg
Unknown Cycloalkane		2000 J	M	11.752	ug/kg
Unknown Substituted Benzene		2500 J	M	11.953	ug/kg
Unknown Substituted Naphthalen		6000 J	M	12.203	ug/kg
Unknown Substituted Benzene		3700 J	M	12.245	ug/kg
Unknown Alkane		3700 J	M	12.367	ug/kg
Unknown Substituted Benzene		2700 J	M	12.422	ug/kg
Unknown Substituted Benzene		5300 J	M	12.519	ug/kg
Unknown Substituted Benzene		2900 J	M	12.616	ug/kg
Unknown Substituted Benzene		4200 J	M	12.756	ug/kg
Unknown Aromatic		3700 J	M	12.847	ug/kg
Unknown Cycloalkane		2200 J	M	12.951	ug/kg
Unknown Substituted Benzene		5600 J	M	13.06	ug/kg
Unknown Substituted Benzene		2600 J	M	13.139	ug/kg
Unknown Hydrocarbon		2700 J	M	13.316	ug/kg
Unknown Hydrocarbon		8700 J	M	13.474	ug/kg
Unknown Substituted Naphthalen		4300 J	M	13.644	ug/kg
Unknown Substituted Benzene		4500 J	M	13.857	ug/kg
Unknown Aromatic		3200 J	M	13.961	ug/kg
Unknown Cycloalkane		2200 J	M	14.052	ug/kg
Naphthalene	91-20-3	3900 NJ	M	14.107	ug/kg
Unknown Substituted Naphthalen		2500 J	M	14.204	ug/kg
Unknown Aromatic		2200 J	M	14.496	ug/kg
Unknown Substituted Naphthalen		4700 J	M	14.691	ug/kg
Unknown Hydrocarbon		2200 J	M	14.885	ug/kg
Unknown Hydrocarbon		2500 J	M	15.025	ug/kg
Unknown Substituted Naphthalen		6600 J	M	15.232	ug/kg
Unknown Substituted Naphthalen		3600 J	M	15.433	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

ECOR Solutions Inc

Client Sample ID: 16MW33@6-8

TOTAL Metals

Lot-Sample #...: C5K180177-001
Date Sampled...: 11/17/05 Date Received..: 11/18/05
% Moisture.....: 16
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5325270						
Lead	2.2	0.36	mg/kg	SW846 6010B	11/21-11/23/05	HQHM91AC
		Dilution Factor: 1		Analysis Time..: 18:51	Analyst ID.....: 400149	
		Instrument ID..: TRACEICP		MS Run #.....: 5325140	MDL.....: 0.19	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SEVERN TRENT STL®

LABORATORY TEST RESULTS

Job Number: 513180

Date: 11/28/2005

CUSTOMER: STL Pittsburgh Laboratory | PROJECT: ECOR NAVAL STATION E | ATTN: Chris Kovitch

Customer Sample ID: 16MW3306-8
Date Sampled.....: 11/17/2005
Time Sampled.....: 00:00
Sample Matrix.....: Solid

Laboratory Sample ID: 513180-1
Date Received.....: 11/19/2005
Time Received.....: 10:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW 9071B	Total Recoverable Petroleum Hydrocarbons, Solid	2700	60	mg/Kg	11/25/05	als

ECOR Solutions Inc

Client Sample ID: 16MW33@10-12

GC/MS Volatiles

Lot-Sample #...:	C5K180177-002	**Work Order #...:**	HQHNC1AA	**Matrix.....:**	SOLID
Date Sampled...:	11/17/05	**Date Received..:**	11/18/05	**MS Run #.....:**	
Prep Date.....:	11/29/05	**Analysis Date..:**	11/29/05		
Prep Batch #...:	5333184	**Analysis Time..:**	17:39		
Dilution Factor:	9.31	**Initial Wgt/Vol:**	5.37 g	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	20	**Analyst ID.....:**	001562	**Instrument ID..:**	HP5
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	12000	ug/kg	2900
Benzene	ND	2900	ug/kg	330
Bromodichloromethane	ND	2900	ug/kg	270
Bromoform	ND	2900	ug/kg	250
Bromomethane	ND	2900	ug/kg	520
2-Butanone	ND	2900	ug/kg	2000
Carbon disulfide	ND	2900	ug/kg	660
Carbon tetrachloride	ND	2900	ug/kg	390
Chlorobenzene	ND	2900	ug/kg	330
Chloroethane	ND	2900	ug/kg	420
Chloroform	ND	2900	ug/kg	360
Chloromethane	ND	2900	ug/kg	480
Cyclohexane	**600 J**	**2900**	**ug/kg**	**460**
Dibromochloromethane	ND	2900	ug/kg	340
1,2-Dibromo-3-chloro-propane	ND	2900	ug/kg	700
1,2-Dibromoethane	ND	2900	ug/kg	320
1,3-Dichlorobenzene	ND	2900	ug/kg	340
1,4-Dichlorobenzene	ND	2900	ug/kg	370
1,2-Dichlorobenzene	ND	2900	ug/kg	360
Dichlorodifluoromethane	ND	2900	ug/kg	540
1,1-Dichloroethane	ND	2900	ug/kg	380
1,2-Dichloroethane	ND	2900	ug/kg	310
1,1-Dichloroethene	ND	2900	ug/kg	510
cis-1,2-Dichloroethene	ND	2900	ug/kg	390
trans-1,2-Dichloroethene	ND	2900	ug/kg	420
1,2-Dichloropropane	ND	2900	ug/kg	430
cis-1,3-Dichloropropene	ND	2900	ug/kg	370
trans-1,3-Dichloropropene	ND	2900	ug/kg	270
Ethylbenzene	**3200**	**2900**	**ug/kg**	**350**
2-Hexanone	ND	2900	ug/kg	690
Isopropylbenzene	**1800 J**	**2900**	**ug/kg**	**380**
Methyl acetate	ND	2900	ug/kg	770
Methylene chloride	ND	2900	ug/kg	780
Methylcyclohexane	**4000**	**2900**	**ug/kg**	**410**
4-Methyl-2-pentanone	ND	2900	ug/kg	860
Methyl tert-butyl ether	ND	2900	ug/kg	290

(Continued on next page)

ECOR Solutions Inc

Client Sample ID: 16MW33@10-12

GC/MS Volatiles

Lot-Sample #...: C5K180177-002 Work Order #...: HQHNC1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	2900	ug/kg	310
1,1,2,2-Tetrachloroethane	ND	2900	ug/kg	410
1,2,4-Trichloro-benzene	ND	2900	ug/kg	530
Tetrachloroethene	ND	2900	ug/kg	940
1,1,1-Trichloroethane	ND	2900	ug/kg	390
1,1,2-Trichloroethane	ND	2900	ug/kg	350
Trichloroethene	ND	2900	ug/kg	340
Trichlorofluoromethane	ND	2900	ug/kg	720
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2900	ug/kg	580
Toluene	ND	2900	ug/kg	340
Vinyl chloride	ND	2900	ug/kg	430
Xylenes (total)	**8300 J**	**8800**	**ug/kg**	**1100**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	NC,DIL	(52 - 124)
Toluene-d8	NC,DIL	(72 - 127)
4-Bromofluorobenzene	NC,DIL	(63 - 120)
Dibromofluoromethane	NC,DIL	(68 - 121)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ECOR Solutions Inc

16MW33@10-12

GC/MS Volatiles

Lot-Sample #: C5K180177-002 **Work Order #:** HQHNC1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown Alkane		15000 J	M	10.833	ug/kg
Unknown Substituted Benzene		31000 J	M	11.082	ug/kg
Unknown Alkane		48000 J	M	11.179	ug/kg
Unknown Substituted Benzene		13000 J	M	11.368	ug/kg
Unknown Substituted Benzene		45000 J	M	11.538	ug/kg
Unknown Substituted Benzene		19000 J	M	11.952	ug/kg
Unknown Hydrocarbon		11000 J	M	12.147	ug/kg
Unknown Alkane		26000 J	M	12.372	ug/kg
Unknown Substituted Benzene		39000 J	M	12.518	ug/kg
Unknown Substituted Benzene		21000 J	M	12.615	ug/kg
Unknown Substituted Benzene		30000 J	M	12.761	ug/kg
Unknown Substituted Naphthalen		21000 J	M	12.846	ug/kg
Unknown Cycloalkane		12000 J	M	12.95	ug/kg
Unknown Substituted Benzene		36000 J	M	13.059	ug/kg
Unknown Substituted Benzene		16000 J	M	13.144	ug/kg
Unknown Substituted Benzene		20000 J	M	13.321	ug/kg
Unknown Aromatic		74000 J	M	13.479	ug/kg
Unknown Substituted Benzene		13000 J	M	13.588	ug/kg
Unknown Substituted Benzene		28000 J	M	13.862	ug/kg
Naphthalene	91-20-3	41000 NJ	M	14.105	ug/kg
Unknown Substituted Naphthalen		17000 J	M	14.203	ug/kg
Unknown Aromatic		17000 J	M	14.495	ug/kg
Unknown Substituted Naphthalen		35000 J	M	14.696	ug/kg
Unknown Aromatic		16000 J	M	14.884	ug/kg
Unknown Substituted Naphthalen		15000 J	M	15.024	ug/kg
Unknown Substituted Naphthalen		86000 J	M	15.237	ug/kg
Unknown Substituted Naphthalen		31000 J	M	15.432	ug/kg
Unknown Substituted Naphthalen		16000 J	M	16.35	ug/kg
Unknown Substituted Naphthalen		14000 J	M	16.508	ug/kg
Unknown Substituted Naphthalen		13000 J	M	16.697	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

ECOR Solutions Inc

Client Sample ID: 16MW33@10-12

TOTAL Metals

Lot-Sample #...: C5K180177-002
Date Sampled...: 11/17/05 Date Received..: 11/18/05
% Moisture.....: 20
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5325270						
Lead	2.2	0.38	mg/kg	SW846 6010B	11/21-11/23/05	HQHNC1AC
		Dilution Factor: 1		Analysis Time..: 18:56	Analyst ID.....: 400149	
		Instrument ID..: TRACEICP		MS Run #.....: 5325140	MDL.....: 0.20	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SEVERN TRENT STL®

LABORATORY TEST RESULTS

Job Number: 513180

Date: 11/28/2005

CUSTOMER: STL Pittsburgh Laboratory PROJECT: ECOR NAVAL STATION E ATTN: Chris Kovitch

Customer Sample ID: 16MW33@10-12
Date Sampled.....: 11/17/2005
Time Sampled.....: 00:00
Sample Matrix.....: Solid

Laboratory Sample ID: 513180-2
Date Received.....: 11/19/2005
Time Received.....: 10:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW 9071B	Total Recoverable Petroleum Hydrocarbons, Solid	4100	60	mg/Kg	11/25/05	als

ECOR Solutions Inc

Client Sample ID: 16MW3406-8

GC/MS Volatiles

Lot-Sample #...:	C5K180177-003	Work Order #...:	HQHND1AA	Matrix.....:	SOLID
Date Sampled...:	11/17/05	Date Received..:	11/18/05	MS Run #.....:	
Prep Date.....:	11/30/05	Analysis Date..:	11/30/05		
Prep Batch #...:	5335025	Analysis Time..:	16:45		
Dilution Factor:	3.47	Initial Wgt/Vol:	5.76 g	Final Wgt/Vol..:	5 mL
% Moisture.....:	13	Analyst ID.....:	001562	Instrument ID..:	HP5
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	4000	ug/kg	990
Benzene	ND	990	ug/kg	110
Bromodichloromethane	ND	990	ug/kg	92
Bromoform	ND	990	ug/kg	84
Bromomethane	ND	990	ug/kg	180
2-Butanone	ND	990	ug/kg	680
Carbon disulfide	ND	990	ug/kg	220
Carbon tetrachloride	ND	990	ug/kg	130
Chlorobenzene	ND	990	ug/kg	110
Chloroethane	ND	990	ug/kg	140
Chloroform	ND	990	ug/kg	120
Chloromethane	ND	990	ug/kg	160
Cyclohexane	**220 J**	**990**	**ug/kg**	**160**
Dibromochloromethane	ND	990	ug/kg	120
1,2-Dibromo-3-chloro-propane	ND	990	ug/kg	240
1,2-Dibromoethane	ND	990	ug/kg	110
1,3-Dichlorobenzene	ND	990	ug/kg	110
1,4-Dichlorobenzene	ND	990	ug/kg	120
1,2-Dichlorobenzene	ND	990	ug/kg	120
Dichlorodifluoromethane	ND	990	ug/kg	180
1,1-Dichloroethane	ND	990	ug/kg	130
1,2-Dichloroethane	ND	990	ug/kg	110
1,1-Dichloroethene	ND	990	ug/kg	170
cis-1,2-Dichloroethene	ND	990	ug/kg	130
trans-1,2-Dichloroethene	ND	990	ug/kg	140
1,2-Dichloropropane	ND	990	ug/kg	150
cis-1,3-Dichloropropene	ND	990	ug/kg	120
trans-1,3-Dichloropropene	ND	990	ug/kg	93
Ethylbenzene	**1600**	**990**	**ug/kg**	**120**
2-Hexanone	ND	990	ug/kg	240
Isopropylbenzene	**1000**	**990**	**ug/kg**	**130**
Methyl acetate	**270 J**	**990**	**ug/kg**	**260**
Methylene chloride	ND	990	ug/kg	270
Methylcyclohexane	**1700**	**990**	**ug/kg**	**140**
4-Methyl-2-pentanone	ND	990	ug/kg	290
Methyl tert-butyl ether	ND	990	ug/kg	98

(Continued on next page)

ECOR Solutions Inc

Client Sample ID: 16MW3406-8

GC/MS Volatiles

Lot-Sample #...: C5K180177-003 Work Order #...: HQHND1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	990	ug/kg	100
1,1,2,2-Tetrachloroethane	ND	990	ug/kg	140
1,2,4-Trichloro-benzene	**240 J**	**990**	**ug/kg**	**180**
Tetrachloroethene	ND	990	ug/kg	320
1,1,1-Trichloroethane	ND	990	ug/kg	130
1,1,2-Trichloroethane	ND	990	ug/kg	120
Trichloroethene	ND	990	ug/kg	120
Trichlorofluoromethane	ND	990	ug/kg	250
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	990	ug/kg	200
Toluene	ND	990	ug/kg	120
Vinyl chloride	ND	990	ug/kg	150
Xylenes (total)	**380 J**	**3000**	**ug/kg**	**370**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(52 - 124)
Toluene-d8	92	(72 - 127)
4-Bromofluorobenzene	105	(63 - 120)
Dibromofluoromethane	84	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ECOR Solutions Inc

16MW3406-8

GC/MS Volatiles

Lot-Sample #: C5K180177-003 **Work Order #:** HQHND1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown Alkane		8800 J	M	10.344	ug/kg
Unknown Cycloalkane		9000 J	M	10.435	ug/kg
Unknown Cycloalkane		6100 J	M	11.122	ug/kg
Unknown Alkane		5300 J	M	11.475	ug/kg
Unknown Substituted Benzene		7000 J	M	11.536	ug/kg
Unknown Substituted Benzene		6100 J	M	11.7	ug/kg
Unknown Cycloalkane		10000 J	M	11.755	ug/kg
Unknown Substituted Benzene		5900 J	M	11.956	ug/kg
Unknown Substituted Benzene		5000 J	M	12.15	ug/kg
Unknown Substituted Naphthalen		11000 J	M	12.205	ug/kg
Unknown Substituted Benzene		8500 J	M	12.418	ug/kg
Unknown Hydrocarbon		10000 J	M	12.521	ug/kg
Unknown Substituted Benzene		7500 J	M	12.619	ug/kg
Unknown Substituted Benzene		8900 J	M	12.722	ug/kg
Unknown Hydrocarbon		9800 J	M	12.85	ug/kg
Unknown Cycloalkane		7000 J	M	12.947	ug/kg
Unknown Hydrocarbon		14000 J	M	13.057	ug/kg
Unknown Substituted Benzene		5300 J	M	13.142	ug/kg
Unknown Hydrocarbon		18000 J	M	13.476	ug/kg
Unknown		4700 J	M	13.537	ug/kg
Unknown		6300 J	M	13.592	ug/kg
Unknown Substituted Naphthalen		10000 J	M	13.647	ug/kg
Unknown Aromatic		7300 J	M	13.957	ug/kg
Naphthalene	91-20-3	12000 NJ	M	14.103	ug/kg
Unknown Substituted Naphthalen		5400 J	M	14.2	ug/kg
Unknown Substituted Naphthalen		13000 J	M	14.693	ug/kg
Unknown Aromatic		5000 J	M	14.882	ug/kg
Unknown Substituted Naphthalen		6400 J	M	15.022	ug/kg
Unknown Substituted Naphthalen		16000 J	M	15.235	ug/kg
Unknown Substituted Naphthalen		8300 J	M	15.435	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

ECOR Solutions Inc

Client Sample ID: 16MW34@6-8

TOTAL Metals

Lot-Sample #...: C5K180177-003 **Matrix.....:** SOLID
Date Sampled...: 11/17/05 **Date Received..:** 11/18/05
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5325270						
Lead	**3.5**	**0.34**	**mg/kg**	**SW846 6010B**	**11/21-11/23/05**	**HQHND1AC**
		Dilution Factor: 1		Analysis Time..: 19:02	Analyst ID.....: 400149	
		Instrument ID..: TRACEICP		MS Run #.....: 5325140	MDL.....: 0.18	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SEVERN TRENT STL®

LABORATORY TEST RESULTS

Job Number: 513180

Date: 11/28/2005

CUSTOMER: STL Pittsburgh Laboratory PROJECT: ECOR NAVAL STATION E ATTN: Chris Kovitch

Customer Sample ID: 16MW3406-8
Date Sampled.....: 11/17/2005
Time Sampled.....: 00:00
Sample Matrix.....: Solid

Laboratory Sample ID: 513180-3
Date Received.....: 11/19/2005
Time Received.....: 10:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW 9071B	Total Recoverable Petroleum Hydrocarbons, Solid	1600	60	mg/Kg	11/25/05	als

ECOR Solutions Inc

Client Sample ID: 16MW34@10-12

GC/MS Volatiles

Lot-Sample #...: C5K180177-004
Date Sampled...: 11/17/05
Prep Date.....: 11/29/05
Prep Batch #...: 5333184
Dilution Factor: 8.77
% Moisture.....: 17

Work Order #...: HQHNE1AA
Date Received..: 11/18/05
Analysis Date..: 11/29/05
Analysis Time..: 18:37
Initial Wgt/Vol: 5.7 g
Analyst ID.....: 001562
Method.....: SW846 8260B

Matrix.....: SOLID
MS Run #.....:

Final Wgt/Vol..: 5 mL
Instrument ID..: HP5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	11000	ug/kg	2700
Benzene	**610 J**	**2700**	**ug/kg**	**300**
Bromodichloromethane	ND	2700	ug/kg	240
Bromoform	ND	2700	ug/kg	220
Bromomethane	ND	2700	ug/kg	480
2-Butanone	ND	2700	ug/kg	1800
Carbon disulfide	ND	2700	ug/kg	600
Carbon tetrachloride	ND	2700	ug/kg	360
Chlorobenzene	ND	2700	ug/kg	300
Chloroethane	ND	2700	ug/kg	380
Chloroform	ND	2700	ug/kg	330
Chloromethane	ND	2700	ug/kg	440
Cyclohexane	**1500 J**	**2700**	**ug/kg**	**410**
Dibromochloromethane	ND	2700	ug/kg	310
1,2-Dibromo-3-chloro-propane	ND	2700	ug/kg	630
1,2-Dibromoethane	ND	2700	ug/kg	290
1,3-Dichlorobenzene	ND	2700	ug/kg	310
1,4-Dichlorobenzene	ND	2700	ug/kg	330
1,2-Dichlorobenzene	ND	2700	ug/kg	330
Dichlorodifluoromethane	ND	2700	ug/kg	490
1,1-Dichloroethane	ND	2700	ug/kg	340
1,2-Dichloroethane	ND	2700	ug/kg	290
1,1-Dichloroethene	ND	2700	ug/kg	470
cis-1,2-Dichloroethene	ND	2700	ug/kg	360
trans-1,2-Dichloroethene	ND	2700	ug/kg	380
1,2-Dichloropropane	ND	2700	ug/kg	390
cis-1,3-Dichloropropene	ND	2700	ug/kg	330
trans-1,3-Dichloropropene	ND	2700	ug/kg	250
Ethylbenzene	**7200**	**2700**	**ug/kg**	**320**
2-Hexanone	ND	2700	ug/kg	630
Isopropylbenzene	**3200**	**2700**	**ug/kg**	**350**
Methyl acetate	ND	2700	ug/kg	700
Methylene chloride	ND	2700	ug/kg	710
Methylcyclohexane	**8200**	**2700**	**ug/kg**	**380**
4-Methyl-2-pentanone	ND	2700	ug/kg	780
Methyl tert-butyl ether	ND	2700	ug/kg	260

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ECOR Solutions Inc

Client Sample ID: 16MW34@10-12

GC/MS Volatiles

Lot-Sample #...: C5K180177-004 Work Order #...: HQHNE1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	2700	ug/kg	280
1,1,2,2-Tetrachloroethane	ND	2700	ug/kg	370
1,2,4-Trichloro-benzene	ND	2700	ug/kg	480
Tetrachloroethene	ND	2700	ug/kg	860
1,1,1-Trichloroethane	ND	2700	ug/kg	350
1,1,2-Trichloroethane	ND	2700	ug/kg	310
Trichloroethene	ND	2700	ug/kg	310
Trichlorofluoromethane	ND	2700	ug/kg	650
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2700	ug/kg	530
Toluene	**950 J**	**2700**	**ug/kg**	**310**
Vinyl chloride	ND	2700	ug/kg	390
Xylenes (total)	**34000**	**8000**	**ug/kg**	**980**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	NC,DIL	(52 - 124)
Toluene-d8	NC,DIL	(72 - 127)
4-Bromofluorobenzene	NC,DIL	(63 - 120)
Dibromofluoromethane	NC,DIL	(68 - 121)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ECOR Solutions Inc

16MW34@10-12

GC/MS Volatiles

Lot-Sample #: C5K180177-004 Work Order #: HQHNE1AA Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown Alkane		16000 J	M	9.349	ug/kg
Unknown Alkane		21000 J	M	10.346	ug/kg
Unknown Substituted Benzene		46000 J	M	11.076	ug/kg
Unknown Alkane		60000 J	M	11.18	ug/kg
Unknown Substituted Benzene		17000 J	M	11.362	ug/kg
Unknown Alkane		13000 J	M	11.478	ug/kg
Unknown Substituted Benzene		55000 J	M	11.539	ug/kg
Unknown Cycloalkane		13000 J	M	11.758	ug/kg
Unknown Substituted Benzene		29000 J	M	11.952	ug/kg
Unknown Substituted Benzene		35000 J	M	12.177	ug/kg
Unknown Alkane		20000 J	M	12.372	ug/kg
Unknown Substituted Benzene		24000 J	M	12.421	ug/kg
Unknown Substituted Benzene		43000 J	M	12.518	ug/kg
Unknown Substituted Benzene		21000 J	M	12.615	ug/kg
Unknown Substituted Naphthalen		25000 J	M	12.847	ug/kg
Unknown Cycloalkane		12000 J	M	12.95	ug/kg
Unknown Substituted Benzene		37000 J	M	13.059	ug/kg
Unknown Substituted Benzene		16000 J	M	13.145	ug/kg
Unknown Aromatic		18000 J	M	13.321	ug/kg
Unknown Aromatic		59000 J	M	13.479	ug/kg
Unknown Substituted Benzene		30000 J	M	13.856	ug/kg
Naphthalene	91-20-3	37000 NJ	M	14.106	ug/kg
Unknown Substituted Naphthalen		21000 J	M	14.203	ug/kg
Unknown Aromatic		22000 J	M	14.301	ug/kg
Unknown Aromatic		11000 J	M	14.495	ug/kg
Unknown Substituted Naphthalen		38000 J	M	14.696	ug/kg
Unknown Aromatic		17000 J	M	15.024	ug/kg
Unknown Substituted Naphthalen		56000 J	M	15.231	ug/kg
Unknown Substituted Naphthalen		25000 J	M	15.432	ug/kg
Unknown Substituted Naphthalen		13000 J	M	16.351	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

ECOR Solutions Inc

Client Sample ID: 16MW34@10-12

TOTAL Metals

Lot-Sample #...: C5K180177-004
Date Sampled...: 11/17/05 Date Received..: 11/18/05
% Moisture.....: 17
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5325270						
Lead	2.1	0.36	mg/kg	SW846 6010B	11/21-11/23/05	HQHNE1AC
		Dilution Factor: 1		Analysis Time..: 19:07	Analyst ID.....: 400149	
		Instrument ID..: TRACEICP		MS Run #.....: 5325140	MDL.....: 0.19	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SEVERN TRENT STL®

LABORATORY TEST RESULTS

Job Number: 513180

Date: 11/28/2005

CUSTOMER: STL Pittsburgh Laboratory PROJECT: ECOR NAVAL STATION E ATTN: Chris Kovitch

Customer Sample ID: 16MW34010-12
Date Sampled.....: 11/17/2005
Time Sampled.....: 00:00
Sample Matrix.....: Solid

Laboratory Sample ID: 513180-4
Date Received.....: 11/19/2005
Time Received.....: 10:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW 9071B	Total Recoverable Petroleum Hydrocarbons, Solid	4800	60	mg/Kg	11/25/05	als

ECOR Solutions Inc

Client Sample ID: 16MW3508-10

GC/MS Volatiles

Lot-Sample #...:	C5K180177-005	Work Order #...:	HQHNJ1AA	Matrix.....:	SOLID
Date Sampled...:	11/17/05	Date Received..:	11/18/05	MS Run #.....:	
Prep Date.....:	11/30/05	Analysis Date..:	11/30/05		
Prep Batch #...:	5335025	Analysis Time..:	17:17		
Dilution Factor:	7.05	Initial Wgt/Vol:	5.67 g	Final Wgt/Vol..:	5 mL
% Moisture.....:	15	Analyst ID.....:	001562	Instrument ID..:	HP5
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	8300	ug/kg	2100
Benzene	ND	2100	ug/kg	240
Bromodichloromethane	ND	2100	ug/kg	190
Bromoform	ND	2100	ug/kg	180
Bromomethane	ND	2100	ug/kg	370
2-Butanone	ND	2100	ug/kg	1400
Carbon disulfide	ND	2100	ug/kg	470
Carbon tetrachloride	ND	2100	ug/kg	280
Chlorobenzene	ND	2100	ug/kg	230
Chloroethane	ND	2100	ug/kg	300
Chloroform	ND	2100	ug/kg	260
Chloromethane	ND	2100	ug/kg	340
Cyclohexane	**870 J**	**2100**	**ug/kg**	**330**
Dibromochloromethane	ND	2100	ug/kg	240
1,2-Dibromo-3-chloro-propane	ND	2100	ug/kg	500
1,2-Dibromoethane	ND	2100	ug/kg	230
1,3-Dichlorobenzene	ND	2100	ug/kg	240
1,4-Dichlorobenzene	ND	2100	ug/kg	260
1,2-Dichlorobenzene	ND	2100	ug/kg	260
Dichlorodifluoromethane	ND	2100	ug/kg	380
1,1-Dichloroethane	ND	2100	ug/kg	270
1,2-Dichloroethane	ND	2100	ug/kg	220
1,1-Dichloroethene	ND	2100	ug/kg	370
cis-1,2-Dichloroethene	ND	2100	ug/kg	280
trans-1,2-Dichloroethene	ND	2100	ug/kg	300
1,2-Dichloropropane	ND	2100	ug/kg	300
cis-1,3-Dichloropropene	ND	2100	ug/kg	260
trans-1,3-Dichloropropene	ND	2100	ug/kg	190
Ethylbenzene	**4000**	**2100**	**ug/kg**	**250**
2-Hexanone	ND	2100	ug/kg	490
Isopropylbenzene	**1900 J**	**2100**	**ug/kg**	**270**
Methyl acetate	ND	2100	ug/kg	550
Methylene chloride	ND	2100	ug/kg	560
Methylcyclohexane	**5100**	**2100**	**ug/kg**	**290**
4-Methyl-2-pentanone	ND	2100	ug/kg	610
Methyl tert-butyl ether	ND	2100	ug/kg	210

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ECOR Solutions Inc

Client Sample ID: 16MW35@8-10

GC/MS Volatiles

Lot-Sample #...: C5K180177-005 Work Order #...: HQHNJ1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	2100	ug/kg	220
1,1,2,2-Tetrachloroethane	ND	2100	ug/kg	290
1,2,4-Trichloro-benzene	ND	2100	ug/kg	380
Tetrachloroethene	ND	2100	ug/kg	670
1,1,1-Trichloroethane	ND	2100	ug/kg	280
1,1,2-Trichloroethane	ND	2100	ug/kg	250
Trichloroethene	ND	2100	ug/kg	240
Trichlorofluoromethane	ND	2100	ug/kg	510
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2100	ug/kg	420
Toluene	ND	2100	ug/kg	240
Vinyl chloride	ND	2100	ug/kg	310
Xylenes (total)	**6100 J**	**6300**	**ug/kg**	**770**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	NC,DIL	(52 - 124)
Toluene-d8	NC,DIL	(72 - 127)
4-Bromofluorobenzene	NC,DIL	(63 - 120)
Dibromofluoromethane	NC,DIL	(68 - 121)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ECOR Solutions Inc

16MW35@8-10

GC/MS Volatiles

Lot-Sample #: C5K180177-005 Work Order #: HQHNJ1AA Matrix: SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown Alkane		14000 J	M	9.349	ug/kg
Unknown Alkane		11000 J	M	9.4646	ug/kg
Unknown Alkane		16000 J	M	10.346	ug/kg
Unknown Substituted Benzene		8800 J	M	10.991	ug/kg
Unknown Alkane		29000 J	M	11.18	ug/kg
Unknown Alkane		13000 J	M	11.478	ug/kg
Unknown Alkane		22000 J	M	11.539	ug/kg
Unknown Cycloalkane		19000 J	M	11.758	ug/kg
Unknown Substituted Benzene		13000 J	M	11.958	ug/kg
Unknown Hydrocarbon		11000 J	M	12.147	ug/kg
Unknown Substituted Benzene		19000 J	M	12.421	ug/kg
Unknown		24000 J	M	12.524	ug/kg
Unknown Substituted Benzene		16000 J	M	12.615	ug/kg
Unknown Hydrocarbon		20000 J	M	12.847	ug/kg
Unknown Cycloalkane		16000 J	M	12.95	ug/kg
Unknown Hydrocarbon		26000 J	M	13.059	ug/kg
Unknown Substituted Benzene		11000 J	M	13.139	ug/kg
Unknown Hydrocarbon		29000 J	M	13.479	ug/kg
Unknown Substituted Benzene		12000 J	M	13.589	ug/kg
Unknown Substituted Benzene		23000 J	M	13.856	ug/kg
Naphthalene	91-20-3	30000 NJ	M	14.106	ug/kg
Unknown Substituted Naphthalen		14000 J	M	14.203	ug/kg
Unknown Aromatic		9800 J	M	14.495	ug/kg
Unknown Substituted Naphthalen		29000 J	M	14.69	ug/kg
Unknown Substituted Naphthalen		14000 J	M	15.024	ug/kg
Unknown Substituted Naphthalen		66000 J	M	15.237	ug/kg
Unknown Substituted Naphthalen		21000 J	M	15.432	ug/kg
Unknown Substituted Naphthalen		11000 J	M	16.351	ug/kg
Unknown Substituted Naphthalen		8900 J	M	16.509	ug/kg
Unknown Substituted Naphthalen		8900 J	M	16.697	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

ECOR Solutions Inc

Client Sample ID: 16MW35@8-10

TOTAL Metals

Lot-Sample #...: C5K180177-005
Date Sampled...: 11/17/05 Date Received..: 11/18/05
% Moisture.....: 15
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5325270						
Lead	2.3	0.35	mg/kg	SW846 6010B	11/21-11/23/05	HQHNJ1AC
		Dilution Factor: 1		Analysis Time..: 19:26	Analyst ID.....: 400149	
		Instrument ID..: TRACEICP		MS Run #.....: 5325140	MDL.....: 0.19	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SEVERN TRENT STL®

LABORATORY TEST RESULTS

Job Number: 513180

Date: 11/28/2005

CUSTOMER: STL Pittsburgh Laboratory | PROJECT: ECOR NAVAL STATION E | ATTN: Chris Kovitch

Customer Sample ID: 16MW35B8-10
Date Sampled.....: 11/17/2005
Time Sampled.....: 00:00
Sample Matrix.....: Solid

Laboratory Sample ID: 513180-5
Date Received.....: 11/19/2005
Time Received.....: 10:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW 9071B	Total Recoverable Petroleum Hydrocarbons, Solid	8400	60	mg/Kg	11/25/05	als

C5K180177

[redacted]

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: ELOR SOLUTIONS	Project Manager: PAT SCHAMBLE	Date: 11/17/05	Chain of Custody Number: 227638
Address: 1075 ANDREW DRIVE SUITE I	Telephone Number (Area Code)/Fax Number: 610 431 8731	Lab Number: C5K180177	Page 1 of 1
City: WEST CHESTER; State: PA; Zip Code: 19380	Site Contact: RICH EVANS	Lab Contact: CATHY BURT	
Project Name and Location (State): NWS EARLE BIOSCURPER COCTS WEEK, NJ	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TCL VOA + 10 TICs	TCL VOA + 10 TICs (Confirmed Analysis)	(Field)	Special Instructions/ Conditions of Receipt
EQUIPMENT BLANK	11/17/05	11:05		X						X			X			3 VOAS
TRIP BLANK	11/17/05	11:05		X						X			X			2 VOAS

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time
1. Relinquished By: [signature]	11/17/05	15:00
2. Relinquished By:		
3. Relinquished By:		

	Date	Time
1. Received By:		
2. Received By: Patrick R Daust	11/18/05	0905
3. Received By:		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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(1 - 676)

ECOR Solutions Inc

Client Sample ID: EQUIPMENT BLANK

GC/MS Volatiles

Lot-Sample #...:	C5K180177-007	Work Order #...:	HQHN81AA	Matrix.....:	WATER
Date Sampled...:	11/17/05	Date Received..:	11/18/05	MS Run #.....:	5335024
Prep Date.....:	12/01/05	Analysis Date..:	12/01/05		
Prep Batch #...:	5335094	Analysis Time..:	14:57		
Dilution Factor:	1	Initial Wgt/Vol:	5 mL	Final Wgt/Vol..:	5 mL
Analyst ID.....:	402739	Instrument ID..:	HP7		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	20	ug/L	5.0
Benzene	ND	5.0	ug/L	1.3
Bromodichloromethane	ND	5.0	ug/L	0.78
Bromoform	ND	5.0	ug/L	2.2
Bromomethane	ND	5.0	ug/L	1.4
2-Butanone	ND	5.0	ug/L	2.3
Carbon disulfide	ND	5.0	ug/L	0.90
Carbon tetrachloride	ND	5.0	ug/L	0.58
Chlorobenzene	ND	5.0	ug/L	0.42
Chloroethane	ND	5.0	ug/L	3.7
Chloroform	ND	5.0	ug/L	0.73
Chloromethane	ND	5.0	ug/L	1.0
Cyclohexane	ND	5.0	ug/L	2.7
Dibromochloromethane	ND	5.0	ug/L	1.9
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L	2.5
1,2-Dibromoethane	ND	5.0	ug/L	0.37
1,3-Dichlorobenzene	ND	5.0	ug/L	0.43
1,4-Dichlorobenzene	ND	5.0	ug/L	1.0
1,2-Dichlorobenzene	ND	5.0	ug/L	0.53
Dichlorodifluoromethane	ND	5.0	ug/L	1.6
1,1-Dichloroethane	ND	5.0	ug/L	0.86
1,2-Dichloroethane	ND	5.0	ug/L	0.56
1,1-Dichloroethene	ND	5.0	ug/L	1.2
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.2
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.2
1,2-Dichloropropane	ND	5.0	ug/L	1.3
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.95
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.28
Ethylbenzene	ND	5.0	ug/L	1.7
2-Hexanone	ND	5.0	ug/L	0.71
Isopropylbenzene	ND	5.0	ug/L	2.6
Methyl acetate	ND	5.0	ug/L	1.3
Methylene chloride	**1.6 J**	**5.0**	**ug/L**	**1.1**
Methylcyclohexane	ND	5.0	ug/L	2.6
4-Methyl-2-pentanone	ND	5.0	ug/L	1.4
Methyl tert-butyl ether	ND	5.0	ug/L	0.68

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ECOR Solutions Inc

Client Sample ID: EQUIPMENT BLANK

GC/MS Volatiles

Lot-Sample #...: C5K180177-007 Work Order #...: HQHN81AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	5.0	ug/L	2.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1.7
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.69
Tetrachloroethene	ND	5.0	ug/L	0.66
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
1,1,2-Trichloroethane	ND	5.0	ug/L	0.57
Trichloroethene	ND	5.0	ug/L	1.3
Trichlorofluoromethane	ND	5.0	ug/L	1.3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L	1.3
Toluene	ND	5.0	ug/L	0.61
Vinyl chloride	ND	5.0	ug/L	1.1
Xylenes (total)	ND	15	ug/L	5.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	111	(70 - 125)
Toluene-d8	90	(80 - 120)
4-Bromofluorobenzene	87	(75 - 120)
Dibromofluoromethane	94	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

ECOR Solutions Inc

EQUIPMENT BLANK

GC/MS Volatiles

Lot-Sample #: C5K180177-007 **Work Order #:** HQHN81AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

ECOR Solutions Inc

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C5K180177-008	**Work Order #...:** HQHPD1AA	**Matrix.....:** WATER
Date Sampled...: 11/17/05	**Date Received..:** 11/18/05	**MS Run #.....:** 5335024
Prep Date.....: 12/01/05	**Analysis Date..:** 12/01/05	
Prep Batch #...: 5335094	**Analysis Time..:** 15:25	
Dilution Factor: 1	**Initial Wgt/Vol:** 5 mL	**Final Wgt/Vol..:** 5 mL
Analyst ID.....: 402739	**Instrument ID..:** HP7	
	Method.....: SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	20	ug/L	5.0
Benzene	ND	5.0	ug/L	1.3
Bromodichloromethane	ND	5.0	ug/L	0.78
Bromoform	ND	5.0	ug/L	2.2
Bromomethane	ND	5.0	ug/L	1.4
2-Butanone	ND	5.0	ug/L	2.3
Carbon disulfide	ND	5.0	ug/L	0.90
Carbon tetrachloride	ND	5.0	ug/L	0.58
Chlorobenzene	ND	5.0	ug/L	0.42
Chloroethane	ND	5.0	ug/L	3.7
Chloroform	ND	5.0	ug/L	0.73
Chloromethane	ND	5.0	ug/L	1.0
Cyclohexane	ND	5.0	ug/L	2.7
Dibromochloromethane	ND	5.0	ug/L	1.9
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L	2.5
1,2-Dibromoethane	ND	5.0	ug/L	0.37
1,3-Dichlorobenzene	ND	5.0	ug/L	0.43
1,4-Dichlorobenzene	ND	5.0	ug/L	1.0
1,2-Dichlorobenzene	ND	5.0	ug/L	0.53
Dichlorodifluoromethane	ND	5.0	ug/L	1.6
1,1-Dichloroethane	ND	5.0	ug/L	0.86
1,2-Dichloroethane	ND	5.0	ug/L	0.56
1,1-Dichloroethene	ND	5.0	ug/L	1.2
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.2
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.2
1,2-Dichloropropane	ND	5.0	ug/L	1.3
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.95
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.28
Ethylbenzene	ND	5.0	ug/L	1.7
2-Hexanone	ND	5.0	ug/L	0.71
Isopropylbenzene	ND	5.0	ug/L	2.6
Methyl acetate	ND	5.0	ug/L	1.3
Methylene chloride	**3.3 J**	**5.0**	**ug/L**	**1.1**
Methylcyclohexane	ND	5.0	ug/L	2.6
4-Methyl-2-pentanone	ND	5.0	ug/L	1.4
Methyl tert-butyl ether	ND	5.0	ug/L	0.68

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ECOR Solutions Inc

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C5K180177-008 **Work Order #...:** HQHPD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Styrene	ND	5.0	ug/L	2.0
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1.7
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.69
Tetrachloroethene	ND	5.0	ug/L	0.66
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
1,1,2-Trichloroethane	ND	5.0	ug/L	0.57
Trichloroethene	ND	5.0	ug/L	1.3
Trichlorofluoromethane	ND	5.0	ug/L	1.3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L	1.3
Toluene	ND	5.0	ug/L	0.61
Vinyl chloride	ND	5.0	ug/L	1.1
Xylenes (total)	ND	15	ug/L	5.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	115	(70 - 125)
Toluene-d8	95	(80 - 120)
4-Bromofluorobenzene	89	(75 - 120)
Dibromofluoromethane	99	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

ECOR Solutions Inc

TRIP BLANK

GC/MS Volatiles

Lot-Sample #: C5K180177-008 **Work Order #:** HQHPD1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L