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FINAL SITE ASSESSMENT REPORT WITH TRANSMITTAL FOR BUILDING 38 SEAWALL PETROLEUM SITE NAS PENSACOLA FL

10/05/2010

AEROSTAR ENVIRONMENTAL SERVICES, INC.

October 5, 2010

Mr. Greg Campbell
NAVFAC Southeast, FEAP
Public Works Department
3560 John Tower Road
Pensacola, Florida 32508-5303

RE: Final Site Assessment Report (SAR)
Building 38, Seawall Petroleum Site
Naval Air Station Pensacola
Pensacola, Escambia County, Florida
Contract Number N69450-07-M-6351

Dear Mr. Campbell:

AEROSTAR Environmental Services, Inc. (AEROSTAR) hereby presents the results of the Site Assessment (SA) activities conducted at the above referenced site. Field activities were performed between December 17, 2007 and October 14, 2008 to obtain soil and groundwater data for the site. A brief background of the facility, a description of the scope of services performed as part of the assessment, and the results of the investigation are provided in the enclosed report.

If you have any questions, please contact the undersigned at (251) 432-2664 or James O. Smith, Jr., P.E. at (904) 565-2820.

Sincerely,

AEROSTAR ENVIRONMENTAL SERVICES, INC.

Curtis Mills
Project Manager

SITE ASSESSMENT REPORT
BUILDING 38, SEAWALL PETROLEUM SITE
NAVAL AIR STATION PENSACOLA
PENSACOLA, ESCAMBIA COUNTY, FLORIDA
CONTRACT NO. N69450-07-M-6351

FOR SUBMITTAL TO:

NAVFAC Southeast, FEAP
Public Works Department
310 John Tower Road
Pensacola, Florida 32508-5303

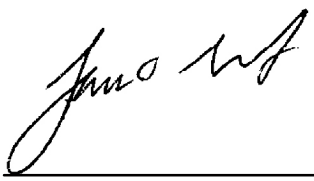
PREPARED BY:

AEROSTAR Environmental Services, Inc.
4640 South Carrollton Avenue, Suite 160
New Orleans, Louisiana 70119
(504) 486-8368

AES Job No. 0407-466-05

October 2010

October 2010
Curtis R. Mills, Project Manager — Date



October 2010
James O. Smith, Jr., P.E., Senior Project Engineer — Date

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APPENDICES

CERTIFICATION

PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA

This is to certify that the geological and hydrogeological features of the ***Site Assessment (SA) Report prepared for the petroleum impacted soil at the seawall near Building 38, NAS Pensacola, Pensacola, Escambia County, Florida*****,** have been examined by the undersigned and comply with standard professional practices, other rules of the Department and any other applicable laws and rules governing the profession.

Signature: _____

James O. Smith, Jr., P.E.
Florida Registration No. 45048
Signature Date: October 5, 2010

1.0 EXECUTIVE SUMMARY

AEROSTAR Environmental Services, Inc. (AEROSTAR) conducted the Site Assessment (SA) activities in the area of petroleum impacted soil discovered during the repair of the seawall. The petroleum impacted soil is located approximately 250 feet west of Port Operations, Building 38 and north and adjacent to the seawall at Naval Air Station (NAS) Pensacola, Pensacola, Escambia County, Florida. The facility identified as Building 38 is hereafter referred to as the site. A street location map is included as Figure 1. The SA was performed in accordance with the approved work plan under Contract Task Order (CTO) Number N69450-07-M-6351. The purpose of the SA was to evaluate current soil and groundwater contamination in the area adjacent to the seawall. The scope of work and findings are summarized below.

Between December 17 and December 20, 2007, AEROSTAR mobilized to the site to advance ten soil borings and collect soil samples. In addition, AEROSTAR installed six temporary wells and collected groundwater samples from each well. All soil and groundwater samples were analyzed for the parameters listed in EPA Method 8270C for polyaromatic hydrocarbons (PAHs) and the FL-PRO Method for Total Recoverable Petroleum Hydrocarbons (TRPH).

Based on the analytical data collected between December 17 and December 20, 2007, AEROSTAR installed six monitor wells on December 21, 2007.

On January 21, 2008, AEROSTAR collected groundwater samples from six monitor wells, MW-1 through MW-6, for laboratory analysis of the parameters listed in EPA Method 8260B for volatile organic aromatics (VOAs), EPA Method 8270C for PAHs, and the FL-PRO Method for TRPH.

A double cased deep monitor well was included in the workplan submitted to the Navy; however, the deep well was not installed due to construction activities occurring at the site between February and September of 2008. NAS Pensacola and AEROSTAR, agreed that it would be costly for the Navy to install one double cased well in the construction area and then re-install it once the construction work was completed. Therefore, once the construction work was complete, AEROSTAR remobilized to the site to install the deep monitor well.

On September 16, 2008, an addendum was made to the contract to install two additional shallow wells for delineation purposes to the west of MW-3 and to the east of soil boring B-5.

Between October 1 and October 14, 2008, AEROSTAR remobilized to the site to install two shallow monitor wells and one double cased well. Soil samples were collected from three soil borings for laboratory analysis of the parameters listed in EPA Method 8270C for PAHs and the FL-PRO Method for TRPH. Groundwater samples were collected from three wells for laboratory analysis of parameters listed in EPA Method 8260B for volatile organic aromatics (VOAs), EPA Method 8270C for PAHs, and the FL-PRO Method for TRPH

Results of the SA indicate soil and groundwater at the site are slightly impacted with petroleum hydrocarbons in the area north and adjacent to the seawall.

The remainder of this report is organized as follows; Section 2 provides a site description and background information regarding the historical use of the site; Section 3 describes the methods of investigation utilized to evaluate soil and groundwater quality in the area of the petroleum impacted soil; Section 4 summarizes the results of the investigation; and Section 5 presents a summary of our conclusions and recommendations. Tables containing a summary of the analytical results and figures illustrating the findings are included at the end of the report.

2.0 SITE DESCRIPTION AND BACKGROUND

Naval Air Station (NAS) Pensacola is located in Escambia County, approximately five miles west of the Pensacola city limits. The approximate 5,000-acre installation was constructed in the 1800s. Prior to construction, the facility was undeveloped and sparsely vegetated. Land use at NAS Pensacola consists of various military housing, training, and support facilities, as well as large industrial complexes for major repairs and refurbishment of aircraft frames and engines.

The site is located approximately 250 feet west of Building 38 and south of Radford Boulevard (South Street), in the southeast corner of the facility. The site is approximately 5 feet north of the Gulf of Mexico and is approximately 50 feet by 60 feet in size.

The site was originally identified when petroleum contaminated soil was discovered during the repair of the seawall. The petroleum contaminated soil is located 250 feet west of Port Operations, Building 38 and north of and adjacent to the existing seawall. Navy personnel collected samples from the open excavation behind the seawall and the laboratory analysis indicated that the sample was impacted by degraded petroleum product. The SA was required due to the discovery of an unknown quantity of petroleum product.

AEROSTAR was contracted by NAVFAC Southeast on August 15, 2007 to perform the Site Assessment. During the assessment, the southern portion of the site was grass-covered and the northern portion of the site was covered with concrete from a former building. In January 2008, the site was used as parking. In February of 2008, the concrete was broken up and removed from the site. Between February and September of 2008, the site was being converted into green space as part of a beautification project being funded at the base. AEROSTAR continued the assessment on Ocotber1, 2008 once the area was repaired enough to remobilize equipment into the assessment area.

3.0 METHODS OF INVESTIGATION

AEROSTAR initiated the field activities in the area north and adjacent of the seawall, approximately 250 feet west of Building 38, in accordance with the approved work plan under CTO No. N69450-07-M-6351 on August 15, 2007. A description and summary of investigations conducted at the site are presented in the following sections.

3.1 Soil Boring Installation and Sampling

AEROSTAR mobilized to the site on December 17, 2007, to install ten soil borings, SB-1 through SB-10, using direct push technology (DPT) to further evaluate soil contamination. Soil borings were installed to a depth of fourteen (14) feet below land surface (BLS) in the area north and adjacent to the seawall. Soil samples were collected at two-foot intervals and field-screened with a calibrated, portable organic vapor analyzer with a flame ionization detector (OVA-FID).

On October 1, 2008, AEROSTAR remobilized to the site to install soil borings SB-11, SB-12, and SB-13 utilizing a hollow stem auger to further evaluate soil contamination. Soil borings SB-11, SB-12, and SB-13 were installed to a depth of fourteen (14) feet BLS within the source area, west of SB-3, and east of SB-5, respectively. Soil samples were collected at two-foot intervals and field-screened with a calibrated, portable OVA-FID.

Soil sampling procedures were conducted in accordance with the guidelines established in the Florida Department of Environmental Protection (FDEP) SOP-001/01, revision date February 1, 2004. All of the soil samples were collected in appropriate sample containers supplied by the subcontracted laboratory and delivered to Test America Laboratory in Pensacola, Florida. Soil boring locations are shown in Figure 2. Soil boring logs are presented in Appendix A. Soil laboratory results are discussed in section 4.2 and are included in Appendix B. OVA soil screening results are presented in Table 1.

3.2 Temporary Well Installation and Sampling

Between December 17 and 20, 2007, AEROSTAR installed six temporary monitor wells, TW-1 through TW-6 to evaluate groundwater quality. All wells were installed to fourteen (14) feet BLS. Groundwater was encountered during the investigation at approximately 6 to 7 feet BLS. The groundwater samples were collected using a variable speed peristaltic pump. The

groundwater samples were placed in appropriate sample containers, placed on ice in a shipping cooler, and delivered to Test America Laboratory of Pensacola, Florida. Groundwater samples were submitted for analyses of the parameters listed in EPA Method 8270 for PAHs and FL-PRO Method for TRPH. All groundwater sampling was conducted in accordance with the guidelines established in FDEP Standard Operating Procedures (SOP)-001/01, revision date June 8, 2004. Temporary well locations are shown in Figure 2. Groundwater laboratory results for samples collected from temporary wells are discussed in section 4.3 and are included in Appendix C.

3.3 Monitor Well Installation

Based on the soil laboratory analytical data collected on December 17, 2007, AEROSTAR installed six monitor wells (MW-1 through MW-6) in the area with the highest petroleum concentrations on December 21, 2007. Monitor Wells MW-1 through MW-6 were installed using a truck mounted drill rig to depths of approximately fifteen (15) feet BLS.

A double cased deep well was included in the workplan; however, the deep well was not installed due to construction activities occurring at the site between February and September of 2008. NAS Pensacola and AEROSTAR, agreed that it would be too costly for the Navy to install one double cased well in the construction area and then re-install it once the construction work was completed. Therefore, once the construction work was complete, AEROSTAR remobilized to the site to install the deep monitor well.

AEROSTAR remobilized to the site on October 1, 2008 to install the double cased well, DMW-1, and two shallow delineation wells, MW-7 and MW-8.

Monitor well installation activities were accomplished in accordance with the FDEP, Bureau of Petroleum Storage Systems "Petroleum Contamination Site Cleanup Criteria" dated April 17, 2005 Soil samples were collected at two foot intervals for the entire well depths in order to record lithology. Groundwater was encountered during the investigation at approximately 6 to 7 feet BLS. The locations of the monitor wells are shown in Figure 2. Soil boring logs are located in Appendix A and Monitor Well Construction Logs are located in Appendix D.

3.4 Groundwater Elevation Measurements and Sampling

On January 18, 2008, AEROSTAR collected depth to groundwater (DTW) measurements and

groundwater samples from MW-1 through MW-6. Prior to gauging the depths to water, the well caps were removed and the water levels allowed to stabilize for at least 15 minutes. The depth to water was measured to the nearest 0.01' using an electronic water level indicator and recorded on a field sample collection log.

On October 14, 2008, AEROSTAR collected depth to groundwater measurements from monitor wells MW-2, MW-6, DMW-1, MW-7, and MW-8. Monitor wells MW-1, MW-3, MW-4, and MW-5 were destroyed during site construction activities. Groundwater samples were collected from DMW-1, MW-7 and MW-8 on October 14, 2008.

The estimated direction of groundwater flow is discussed in Section 4.1. The FDEP groundwater sampling logs and Field Equipment Calibration Records are included in Appendix E. The results of the groundwater laboratory analyses are detailed in Section 4.4 and included in Appendix F.

4.0 RESULTS OF INVESTIGATION

On January 18, 2008, AEROSTAR collected depth to groundwater (DTW) measurements and groundwater samples from MW-1 through MW-6. Prior to gauging the depths to water, the well caps were removed and the water levels allowed to stabilize for at least 15 minutes. The depth to water was measured to the nearest 0.01' using an electronic water level indicator and recorded on a field sample collection log.

On October 14, 2008, AEROSTAR collected depth to groundwater measurements from monitor wells MW-2, MW-6, DMW-1, MW-7, and MW-8. Monitor wells MW-1, MW-3, MW-4, and MW-5 were destroyed during site construction activities. Groundwater samples were collected from DMW-1, MW-7 and MW-8 on October 14, 2008.

The estimated direction of groundwater flow is discussed in Section 4.1. The FDEP groundwater sampling logs and Field Equipment Calibration Records are included in Appendix E. The results of the groundwater laboratory analyses are detailed in Section 4.4 and included in Appendix F.

4.1 Groundwater Flow Direction

DTW measurements were collected from six monitor wells on January 21 and five wells on October 14, 2008. Monitor wells MW-1, MW-3, MW-4, and MW-5 were destroyed during site construction activities. Depth to water and total depth of each monitor well were recorded and are presented in Table 2. DTW measurements were subtracted from the corresponding top of casing elevation for each well to derive groundwater elevations from which to create a groundwater contour map. The groundwater flow direction is towards the south-southwest. Figure 3 illustrates the groundwater flow direction during the January 2008 event. Figure 4 illustrates the groundwater flow direction during the October 2008 event.

4.2 Results of Soil Laboratory Analyses

On December 17, 2007, soil samples were collected from soil borings SB-1 through SB-10. Two soil samples were collected from soil boring SB-5 at depths of 2 to 4 feet (SB-5A) and 4 to 6 feet (SB-5B). On October 1, 2008, soil samples were collected from soil borings SB-11 through SB-13. All soil samples were analyzed for PAHs and TRPH.

Acenaphthylene was detected in soil samples SB-5A, SB-5B, and SB-12 at concentrations of 0.380 mg/kg, 0.750 mg/kg, and 0.033 I mg/kg, respectively, which is below the Soil Cleanup Target Level (SCTL) of 1,800 mg/kg.

Anthracene was detected in soil samples SB-5A and SB-5B at concentrations of 0.079 mg/kg and 0.150 mg/kg, respectively, which is below the SCTL of 2,100mg/kg.

Benzo (a) anthracene was detected in soil samples SB-5A, SB-5B, and SB-12 at concentrations of 0.450 mg/kg, 0.340 mg/kg, and 0.050 Img/kg, respectively.

Benzo (a) pyrene was detected in soil samples SB-3, SB-5A, SB-5B, and SB-12 at concentrations of 0.012 I mg/kg, 0.650 mg/kg, 0.260 mg/kg, and 0.118 I mg/kg, respectively.

Benzo (b) fluoranthene was detected in soil samples SB-3, SB-5A, SB-5B, and SB-12 at concentrations of 0.012 I mg/kg, 0.850 mg/kg, 0.270 mg/kg, and 0.118 I mg/kg, respectively.

Benzo (k) fluoranthracene was detected in soil samples SB-5A and SB-5B at concentrations of 0.380 mg/kg and 0.390 mg/kg, respectively.

Chrysene was detected in soil samples SB-5A, SB-5B, and SB-12 at concentrations of 0.610 mg/kg, 0.460 mg/kg, 0.051 I mg/kg, respectively.

Dibenzo (a,h) anthracene was detected in soil samples SB-5A and SB-5B at concentrations of 0.120 mg/kg and 0.110 mg/kg, respectively.

Indeno (1,2,3-cd)pyrene was detected in soil samples SB-5A and SB-5B at concentrations of 0.630 mg/kg and0.054 mg/kg, respectively.

Benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (k) fluoranthracene, chrysene, dibenzo (a,h) anthracene, and indeno (1,2,3-cd) pyrene concentrations were used in the Benzo(a)pyrene Conversion Table for soil samples SB-3, SB-5A, SB-5B, SB-11, and SB-12 to determine Direct Exposure Soil Cleanup Target Levels. The Total Benzo(a)pyrene Equivalent for soil samples SB-3 and SB-11 were 0.027 mg/kg and 0.056 mg/kg, which is below the Residential and Industrial Direct Exposure SCTLs of 0.100 mg/kg and 0.700 mg/kg, respectively. The Total

Benzo(a)pyrene Equivalent for soil sample SB-5A was 0.967 mg/kg, which is above the Residential and Industrial Direct Exposure SCTLs of 0.100 mg/kg and 0.700 mg/kg, respectively. The Total Benzo(a)pyrene Equivalent for soil sample SB-5B was 0.437 mg/kg, which is above the Residential Direct Exposure SCTLs of 0.100 mg/kg, however, the result is below the Industrial Direct Exposure SCTL of 0.700 mg/kg. The Total Benzo(a)pyrene Equivalent for soil sample SB-12 was 0.189 mg/kg, which is above the Residential Direct Exposure SCTLs of 0.100 mg/kg, however, the result is below the Industrial Direct Exposure SCTL of 0.700 mg/kg.

Benzo (g,h,i) perylene was detected in soil samples SB-3, SB-5A, SB-5B, SB-12 at concentrations of 0.012I mg/kg, 0.700 mg/kg, 0.078 I mg/kg, and 0.194 I mg/kg, respectively, which are below the SCTL of 2,500 mg/kg.

Fluoranthene was detected in soil samples SB-5A, SB-5B, SB-11, and SB-12 at concentrations of 1.20 mg/kg, 1.40 mg/kg, 0.012 I mg/L, and 0.111 I mg/kg, respectively, which are below the SCTL of 3,200 mg/kg.

Naphthalene was detected in soil samples SB-5A, SB-5B, and SB-12 at concentrations of 0.810 mg/kg, 1.90 mg/kg, and 0.31 I mg/kg, respectively, which are below the SCTL of 55 mg/kg.

Phenanthrene was detected in soil samples SB-5A and SB-5B at concentrations of 0.400 mg/kg and 0.630 mg/kg, respectively, which are below the SCTL of 2200 mg/kg.

Pyrene was detected in soil samples SB-5A, SB-5B, SB-12 at concentrations of 0.510 mg/kg, 0.430 mg/kg, and 0.028 I mg/kg, respectively, which are below the SCTL of 2400 mg/kg.

1-Methylnaphthalene was detected in soil samples SB-5A, SB-5B, and SB-11 at concentrations of 0.920 mg/kg, 0.730 mg/kg, 0.015 J mg/kg, respectively, which are below the SCTL of 200 mg/kg. 2-Methylnaphthalene was detected in soil samples SB-5A, SB-5B, and SB-11 at concentrations of 0.850 mg/kg, 1.30 mg/kg, 0.015 J mg/kg, respectively, which are below the SCTL of 210 mg/kg.

TRPH concentrations ranged from below detection limits to 177 mg/kg. All TRPH concentrations were below the SCTL for Leachability of 340 mg/kg.

The results of the soil laboratory analyses are summarized in Table 3. The approximate extents of dissolved chemicals of concern are shown in Figures 5 through 6. The laboratory data sheets with appropriate chain of custody records are included in Appendix B. Benzo (a) Pyrene Conversion Tables for soil samples collected from soil boring SB-3, SB-5A, SB-5B, SB-11, and SB-12 are presented in Appendix G.

4.3 Results of Temporary Well Laboratory Analyses

Groundwater samples collected on December 20, 2007 from temporary wells TW-1 through TW-6 showed all PAH and TRPH concentrations to either be below the laboratory detection limits or below their respective Groundwater Cleanup Target Level (GCTL) in all samples submitted for laboratory analysis. Groundwater analytical results are summarized in Table 4 and illustrated in Figures 7 and 8. The laboratory data sheets with appropriate chain of custody records are included in Appendix C.

4.4 Results of Monitor Well Laboratory Analyses

Groundwater samples were collected on January 18, 2008 from monitor wells MW-1 through MW-6 and on October 14, 2008 from MW-7, MW-8, and DMW-1. All groundwater samples were analyzed for BTEX, PAHs, and TRPH. Groundwater analytical results showed benzene concentrations exceeded the GCTL of 0.001 mg/L in monitor well MW-3 with a concentration of 0.0061 mg/L. Toluene concentrations were below laboratory detection limits in groundwater samples collected from MW-1 through MW-6. Ethylbenzene was detected in monitor well MW-3 at a concentration of 0.0023 mg/L, which is below the GCTL of 0.030 mg/L. Total Xylene was detected in monitor well MW-3 at a concentration of 0.0046 mg/L, which is below the GCTL of 0.0046 mg/L. Total BTEX concentrations ranged from below laboratory detection limits to 0.013 mg/L (MW-3).

All PAH concentrations were below their respective GCTLs. TRPH concentrations were detected in monitor wells MW-1, MW-3, MW-4, MW-7, MW-8, and DMW-1 at concentrations of 0.100 I mg/L, 0.250 mg/L, 0.071 I mg/L, 0.873 mg/L, 0.233 mg/L, and 0.458 mg/L, respectively. All TRPH concentrations detected in the groundwater samples submitted to the laboratory were below the GCTL of 5 mg/L. Groundwater analytical results are summarized in Table 5 and

illustrated in Figures 9 through 12. The laboratory data sheets with appropriate chain of custody records are included in Appendix F.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of the soil and groundwater sampling conducted during the SAR, AEROSTAR presents the following:

- Free product was not detected in any of the monitor wells on January 21 and October 14, 2008.

- The groundwater flow direction on January 21 and October 14, 2008 was to the south-southwest.

- Soil samples were collected from soil borings SB-1 through SB-10 and analyzed for PAHs and TRPH. Acenaphthalene, anthracene, benzo (g,h,i) perylene, fluoranthene, naphthalene, phenanthrene, pyrene, 1-methylnaphthalene, and 2-methylnaphthalene were detected in soil samples submitted to the laboratory, however, all were below their respective SCTL.

- The Total Benzo(a)pyrene Equivalent for soil sample collected from SB-3 was 0.027 mg/kg, which is below the Residential and Industrial Direct Exposure SCTLs of 0.100 mg/kg and 0.700 mg/kg, respectively.

- The Total Benzo(a)pyrene Equivalent for soil sample SB-5A was 0.967 mg/kg, which is above the Residential and Industrial Direct Exposure SCTLs of 0.100 mg/kg and 0.700 mg/kg, respectively.

- The Total Benzo(a)pyrene Equivalent for soil sample SB-5B was 0.437 mg/kg, which is above the Residential Direct Exposure SCTLs of 0.100 mg/kg, however, the result is below the Industrial Direct Exposure SCTL of 0.700 mg/kg.

- The Total Benzo(a)pyrene Equivalent for soil sample SB-11 was 0.056 mg/kg, which is below the Residential an Industrial Direct Exposure SCTLs of 0.100 mg/kg and 0.700 mg/kg, respectively.

- The Total Benzo(a)pyrene Equivalent for soil sample SB-12 was 0.189 mg/kg, which is above the Residential Direct Exposure SCTLs of 0.100 mg/kg, however, the result is below the Industrial Direct Exposure SCTL of 0.700 mg/kg.

- A double cased deep monitor well was included in the workplan; however, the deep well was not installed in January 2008 due to construction activities occurring at the site between February and August of 2008. NAS Pensacola and AEROSTAR, agreed that it would be costly for the Navy to install one double cased well in the construction area and then re-install it once the construction work was completed. Therefore, once the construction work was complete, AEROSTAR remobilized to the site to install the double cased deep monitor well.

- In September 2008, the contract was modified to include two additional wells, one east of SB-5 and one west of SB-3, to further delineate the impacted groundwater at the site.

- AEROSTAR remobilized to the site on October 1, 2008 to install one double cased deep well and two shallow monitor wells.

- TRPH concentrations in soil ranged from below detection limits to 177 mg/kg. All TRPH concentrations in soil were below the Direct Exposure SCTL for Leachability of 340 mg/kg.

- Groundwater analytical results from temporary wells TW-1 through TW-6 showed all PAHs and TRPH to either be below the laboratory detection limits or below their respective GCTLs in all groundwater samples submitted for laboratory analysis.

- Groundwater analytical results showed benzene concentrations above the GCTL of 0.001 mg/L in monitor well MW-3 (0.0061 mg/L). Toluene, Ethylbenzene and Total Xylene concentrations were below their respective GCTL in all groundwater samples analyzed by the laboratory. Total BTEX concentrations in groundwater ranged from below laboratory detection limits to 0.013 mg/L (MW-3).

- All PAH concentrations in groundwater were below their respective GCTLs in monitor wells MW-1 through MW-8 and DMW-1.

- All TRPH concentrations detected in the groundwater samples submitted to the laboratory were below the GCTL of 5 mg/L.

- Based on a review of the groundwater analytical results from the deep well (DMW-1), there does not appear to be any potential for contamination of surface water by infiltration of groundwater underneath the seawall.

Based on the limited magnitude and extent of hydrocarbon impacts, AEROSTAR anticipates that the existing contamination will be remediated by Natural Attenuation (NA). AEROSTAR recommends that monitor well MW-3 be replaced prior to quarterly monitoring. Monitor wells MW-1, MW-4, and MW-5 had hydrocarbon concentrations below GCTLs and should not be replaced. AEROSTAR recommends that monitor wells MW-2, MW-3R, MW-6, and MW-7 be sampled quarterly for BTEX by EPA Method 8260B, PAHs by EPA Method 8310, and TRPH by the FL-PRO Method until all COCs remain below GCTLs for two consecutive quarters.

TABLES

TABLE 1: OVA SOIL SCREENING SUMMARY

Facility Name: Building 38
NAS Pensacola, Florida
Pensacola, Escambia County, Florida

FBGS - Feet below ground surface
NS - Not sampled
NE- Not Encountered
ppm - parts per million

SAMPLE							
BORING NO.	**DATE COLLECTED**	**DEPTH TO WATER**	**SAMPLE INTERVAL (FBLS)**	**UNFILTERED OVA-FID (PPM)**	**FILTERED OVA-FID (PPM)**	**NET OVA-FID (PPM)**	**COMMENTS**
SB-1	12/17/2007	NE	0-2'	0	0	0	see boring logs for lithology
			2-4'	400	20	380	
			4-6'	5,000	0	5,000	
			6-8'	7,250	0	7,250	
			8-10'	3,010	0	3,010	
			10-12'	825	0	825	
			12-14'	600	0	600	
SB-2	12/17/2007	NE	0-2'	20	20	0	see boring logs for lithology
			2-4'	85	10	75	
			4-6'	6,000	0	6,000	
			6-8'	6,040	0	6,040	
			8-10'	2,000	0	2,000	
			10-12'	1,500	0	1,500	
			12-14'	1,000	0	1,000	
SB-3	12/17/2007	NE	0-2'	0	0	0	see boring logs for lithology
			2-4'	120	0	120	
			4-6'	245	0	245	
			6-8'	200	0	200	
			8-10'	180	0	180	
			10-12'	95	0	95	
			12-14'	40	0	40	
SB-4	12/17/2007	NE	0-2'	0	0	0	see boring logs for lithology
			2-4'	20	10	10	
			4-6'	25	10	15	
			6-8'	35	0	35	
			8-10'	65	0	65	
			10-12'	50	0	50	
			12-14'	50	0	50	
SB-5	12/17/2007	NE	0-2'	100	0	100	see boring logs for lithology
			2-4'	650	0	650	
			4-6'	3,000	0	3,000	
			6-8'	3,500	0	3,500	
			8-10'	3,100	0	3,100	
			10-12'	1,250	0	1,250	
			12-14'	400	0	400	
SB-6	12/17/2007	NE	0-2'	0	0	0	see boring logs for lithology
			2-4'	0	0	0	
			4-6'	10	5	5	
			6-8'	15	5	10	
			8-10'	10	0	10	
			10-12'	10	0	10	
			12-14'	10	0	10	

TABLE 1: OVA SOIL SCREENING SUMMARY

Facility Name: Building 38
NAS Pensacola, Florida
Pensacola, Escambia County, Florida

FBGS - Feet below ground surface
NS - Not sampled
NE- Not Encountered
ppm - parts per million

SAMPLE							
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBLS)	UNFILTERED OVA-FID (PPM)	FILTERED OVA-FID (PPM)	NET OVA-FID (PPM)	COMMENTS
SB-7	12/17/2007	NE	0-2'	5	0	5	see boring logs for lithology
			2-4'	0	0	0	
			4-6'	25	0	25	
			6-8'	15	0	15	
			8-10'	10	0	10	
			10-12'	0	0	0	
			12-14'	0	0	0	
SB-8	12/17/2007	NE	0-2'	0	0	0	see boring logs for lithology
			2-4'	0	0	0	
			4-6'	0	0	0	
			6-8'	5	0	5	
			8-10'	0	0	0	
			10-12'	0	0	0	
			12-14'	0	0	0	
SB-9	12/17/2007	NE	0-2'	20	0	20	see boring logs for lithology
			2-4'	35	0	35	
			4-6'	35	0	35	
			6-8'	40	0	40	
			8-10'	30	0	30	
			10-12'	10	0	10	
			12-14'	0	0	0	
SB-10	12/17/2007	NE	0-2'	0	0	0	see boring logs for lithology
			2-4'	0	0	0	
			4-6'	0	0	0	
			6-8'	0	0	0	
			8-10'	0	0	0	
			10-12'	0	0	0	
			12-14'	0	0	0	
SB-11	10/1/2008	NE	0-2'	0	0	0	see boring logs for lithology
			2-4'	250	0	250	
			4-6'	4,500	0	4,500	
			6-8'	8,450	0	8,450	
			8-10'	7,900	0	7,900	
			10-12'	1,000	0	1,000	
			12-14'	450	0	450	
SB-12	10/1/2008	NE	0-2'	0	0	0	see boring logs for lithology
			2-4'	0	0	0	
			4-6'	40	0	40	
			6-8'	100	0	100	
			8-10'	120	0	120	
			10-12'	100	0	100	
			12-14'	80	0	80	
SB-13	10/1/2008	NE	0-2'	0	0	0	see boring logs for lithology
			2-4'	0	0	0	
			4-6'	0	0	0	
			6-8'	0	0	0	
			8-10'	0	0	0	
			10-12'	0	0	0	
			12-14'	0	0	0	

TABLE 2
GROUNDWATER ELEVATION TABLE

Building 38
NAS Pensacola
Pensacola, Florida

WELL DESIGNATION		MW-1			MW-2			MW-3			MW-4			MW-5	
DIAMETER		2	in.		2	in.		2	in.		2	in.		2	in.
WELL DEPTH		14.70	feet		14.41	feet		14.02	feet		14.35	feet		14.86	feet
SCREEN INTERVAL		4.70-14.70	feet		4.41-14.41	feet		4.02-14.02	feet		4.35-14.35	feet		4.86-14.86	feet
TOC ELEVATION*		6.20	feet		5.85	feet		4.26	feet		6.20	feet		5.40	feet
DATE	ELEV*	DTW	LNAPL	ELEV*	DTW	LNAPL	ELEV*	DTW	LNAPL	ELEV*	DTW	LNAPL	ELEV*	DTW	LNAPL
1/21/2008	0.18	6.02	--	0.67	5.18	--	-0.32	4.58	--	0.83	5.37	--	0.63	4.77	--
10/14/2008		Destroyed		0.54	5.31	--		Destroyed			Destroyed			Destroyed	

		MW-6			MW-7			MW-8			DW-1	
DIAMETER		2	in.		2	in.		2	in.		2	in.
WELL DEPTH		14.61	feet		14.49	feet		1.29-11.29	feet		30.80	feet
SCREEN INTERVAL		4.61-14.61	feet		4.49-14.49	feet		4.61-14.61	feet		25.80-30.80	feet
TOC ELEVATION*		5.42	feet		3.81	feet		4.22	feet		4.32	feet
DATE	ELEV*	DTW	LNAPL	ELEV*	DTW	LNAPL	ELEV*	DTW	LNAPL	ELEV*	DTW	LNAPL
1/21/2008	0.90	4.52	--	--	--	--	--	--	--	--	--	--
10/14/2008	1.15	4.27	--	0.63	3.17	--	0.87	3.35	--	1.02	3.30	--

BGS = Below Ground Surface
AMSL = Above Mean Sea Level based on an estimated site elevation of 10 feet amsl

TABLE 3
SOIL BORING ANALYTICAL SUMMARY
(December 17, 2007 and October 1, 2008)

LABORATORY ANALYSES	Units	FDEP SCTL	Leachability Based on Groundwater	SB-1	SB-2	SB-3	SB-4	SB-5A	SB-5B
				12/17/2007	12/17/2007	12/17/2007	12/17/2007	12/17/2007	12/17/2007
Volatile Organic Aromatics (Method 8260)									
Total BTEX	mg/Kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/Kg	**1.2**	**0.007**	NA	NA	NA	NA	NA	NA
Toluene	mg/Kg	**7500**	**0.500**	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/Kg	**1500**	**0.600**	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/Kg	**130**	**0.200**	NA	NA	NA	NA	NA	NA
Methyl T-Butyl Ether	mg/Kg	**4400**	**0.090**	NA	NA	NA	NA	NA	NA
Polynuclear Aromatic Hydrocarbons (Method 8270)									
Total PAHs	mg/Kg	NA	NA	BDL	BDL	0.036 I	BDL	9.53	8.90
Acenaphthene	mg/Kg	**2400**	**2.10**	<0.010	<0.011	<0.011	<0.012	<0.011	<0.011
Acenaphthylene	mg/Kg	**1800**	**27.0**	<0.010	<0.011	<0.011	<0.012	0.380	0.750
Anthracene	mg/Kg	**2100**	**2500**	<0.010	<0.011	<0.011	<0.012	0.079	0.150
Benzo(a)anthracene	mg/Kg	*	**0.800**	<0.010	<0.011	<0.011	<0.012	0.450	0.340
Benzo(a)pyrene	mg/Kg	**0.100**	**8.00**	<0.010	<0.011	0.012 I	<0.012	**0.650**	**0.260**
Benzo(b)fluoranthene	mg/Kg	*	**2.40**	<0.010	<0.011	0.012 I	<0.012	0.850	0.270
Benzo(g,h,i)perylene	mg/Kg	**2500**	**32000**	<0.010	<0.011	0.012 I	<0.012	0.700	0.078 I
Benzo(k)fluoranthene	mg/Kg	*	**24.0**	<0.010	<0.011	<0.011	<0.012	0.380	0.039
Chrysene	mg/Kg	*	**77.0**	<0.010	<0.011	<0.011	<0.012	0.610	0.460
Dibenzo(a,h)anthracene	mg/Kg	*	**0.700**	<0.010	<0.011	<0.011	<0.012	0.120	0.110
Fluoranthene	mg/Kg	**3200**	**700**	<0.010	<0.011	<0.011	<0.012	1.20	1.40
Fluorene	mg/Kg	**2600**	**1200**	<0.010	<0.011	<0.011	<0.012	<0.011	<0.011
Indeno(1,2,3-cd)pyrene	mg/Kg	*	**160**	<0.010	<0.011	<0.011	<0.012	0.630	0.054
Naphthalene	mg/Kg	**55**	**1.20**	<0.010	<0.011	<0.011	<0.012	0.810	**1.90**
Phenanthrene	mg/Kg	**2200**	**250**	<0.010	<0.011	<0.011	<0.012	0.400	0.630
Pyrene	mg/Kg	**2400**	**880**	<0.010	<0.011	<0.011	<0.012	0.510	0.430
1-Methylnaphthalene	mg/Kg	**200**	**3.10**	<0.010	<0.011	<0.011	<0.012	0.920	0.730
2-Methylnaphthalene	mg/Kg	**210**	**8.50**	<0.010	<0.011	<0.011	<0.012	0.850	1.30
Benzo (a) Pyrene Equivalent Tables		Residential Direct Exposure	Industrial Direct Exposure						
Benzo (a) Pyrene	mg/Kg	**0.100**	**0.700**	NA	NA	0.027	NA	**0.967**	**0.437**
Petroleum Range Organic Ranges (Method FL-PRO)									
FL PRO	mg/Kg	**460**	**340**	<7.8	<8.2	21.0 I	<11.0	21.0	9.00 I

Notes:

All results in milligrams per liter (mg/kg)
NA = Not Analyzed / Applicable
BTOC = Below Top of Casing
FDEP = Florida Department of Environmental Protection
FP= Free Product
***Bold** =Valune in bold idetifies a result exceeding an FDEP GCTL*
** No Value set for individual constituent; therefore, defualt to the Benzo(a)pyrene table for a cummulative Direct Exposure SCTL for Industrial and Residential use*

Data Qualifiers:

<=The analyte was below detection limits

I = The reportable value is between the laboratory method detection limit and the laboratory practical quantitation limit

TABLE 3
SOIL BORING ANALYTICAL SUMMARY
(December 17, 2007 and October 1, 2008)

LABORATORY ANALYSES	Units	FDEP SCTL	Leachability Based on Groundwater	SB-6	SB-7	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13
				12/17/2007	12/17/2007	12/17/2007	12/17/2007	12/17/2007	10/1/2008	10/1/2008	10/1/2008
Volatile Organic Aromatics (Method 8260)											
Total BTEX	mg/Kg	NA	NA	NA	NA	NA	NA	NA	BDL	0.227	BDL
Benzene	mg/Kg	**1.2**	**0.007**	NA	NA	NA	NA	NA	<0.012	0.025 I	<0.032
Toluene	mg/Kg	**7500**	**0.500**	NA	NA	NA	NA	NA	<0.017	0.045 J	<0.046
Ethylbenzene	mg/Kg	**1500**	**0.600**	NA	NA	NA	NA	NA	<0.020	<0.020	<0.051
Total Xylenes	mg/Kg	**130**	**0.200**	NA	NA	NA	NA	NA	<0.073	<0.073	<0.190
Methyl T-Butyl Ether	mg/Kg	**4400**	**0.090**	NA	NA	NA	NA	NA	0.139	0.157	0.415
Polynuclear Aromatic Hydrocarbons (Method 8270)											
Total PAHs	mg/Kg	NA	NA	BDL	BDL	BDL	BDL	BDL	0.042	1.11	BDL
Acenaphthene	mg/Kg	**2400**	**2.10**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.012	<0.012	<0.013
Acenaphthylene	mg/Kg	**1800**	**27.0**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.011	0.033 J	<0.012
Anthracene	mg/Kg	**2100**	**2500**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.00471	<0.00489	<0.00541
Benzo(a)anthracene	mg/Kg	*	**0.800**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.00544	0.050 I	<0.00624
Benzo(a)pyrene	mg/Kg	**0.100**	**8.00**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.026	**0.118 I**	<0.030
Benzo(b)fluoranthene	mg/Kg	*	**2.40**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.025	0.118 I	<0.029
Benzo(g,h,i)perylene	mg/Kg	**2500**	**32000**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.033	0.194 I	<0.038
Benzo(k)fluoranthene	mg/Kg	*	**24.0**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.068	<0.071	<0.078
Chrysene	mg/Kg	*	**77.0**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.0094	0.057 I	<0.011
Dibenzo(a,h)anthracene	mg/Kg	*	**0.700**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.021	<0.022	<0.024
Fluoranthene	mg/Kg	**3200**	**700**	<0.011	<0.012	<0.012	<0.010	<0.010	0.012 I	0.111 I	<0.00731
Fluorene	mg/Kg	**2600**	**1200**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.00986	<0.010	<0.011
Indeno(1,2,3-cd)pyrene	mg/Kg	*	**160**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.056	0.317 I	<0.064
Naphthalene	mg/Kg	**55**	**1.20**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.092	<0.095	<0.106
Phenanthrene	mg/Kg	**2200**	**250**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.00867	0.028 I	<0.00996
Pyrene	mg/Kg	**2400**	**880**	<0.011	<0.012	<0.012	<0.010	<0.010	<0.011	0.082 I	<0.012
1-Methylnaphthalene	mg/Kg	**200**	**3.10**	<0.011	<0.012	<0.012	<0.010	<0.010	0.015 I	<0.012	<0.014
2-Methylnaphthalene	mg/Kg	**210**	**8.50**	<0.011	<0.012	<0.012	<0.010	<0.010	0.015 I	<0.013	<0.014
Benzo (a) Pyrene Equivalent Tables		Residential Direct Exposure	Industrial Direct Exposure								
Benzo (a) Pyrene	mg/Kg	**0.100**	**0.700**	NA	NA	NA	NA	**0.967**	0.056	NA	NA
Petroleum Range Organic Ranges (Method FL-PRO)											
FL PRO	mg/Kg	**460**	**340**	48.0	12.0 I	<9.60	<9.50	<11.0	35.5	177	115

Notes:

All results in milligrams per liter (mg/kg)
NA = Not Analyzed / Applicable
BTOC = Below Top of Casing
FDEP = Florida Department of Environmental Protection
FP= Free Product
***Bold** =Valune in bold idetifies a result exceeding an FDEP GCTL*
** No Value set for individual constituent; therefore, defualt to the Benzo(a)pyrene table for a cummulative Direct Exposure SCTL for Industrial and Residential use*

Data Qualifiers:

<=The analyte was below detection limits
I = The reportable value is between the laboratory method detection limit and the laboratory practical quantitation limit

TABLE 4
TEMPORARY WELL GROUNDWATER ANALYTICAL SUMMARY
(December 20, 2007)

Sample ID				TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
LABORATORY ANALYSES	Units	FDEP SWCTL	FDEP GCTL						
Volatile Organic Aromatics									
Total BTEX	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	**0.07128**	**0.001**	NA	NA	NA	NA	NA	NA
Toluene	mg/L	**0.480**	**0.040**	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	**0.610**	**0.030**	NA	NA	NA	NA	NA	NA
Total Xylenes	mg/L	**0.370**	**0.020**	NA	NA	NA	NA	NA	NA
Methyl T-Butyl Ether	mg/L	**34.0**	**0.020**	NA	NA	NA	NA	NA	NA
Polynuclear Aromatic Hydrocarbons (Method 8270)									
Total PAHs	mg/L	NA	NA	0.00021 I	BDL	0.0143 I	BDL	BDL	BDL
Acenaphthene	mg/L	**0.003**	**0.020**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Acenaphthylene	mg/L	**0.000031**	**0.210**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Anthracene	mg/L	**0.0003**	**2.10**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Benzo(a)anthracene	mg/L	**0.000031**	**0.00005**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Benzo(a)pyrene	mg/L	**0.000031**	**0.0002**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Benzo(b)fluoranthene	mg/L	**0.000031**	**0.00005**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Benzo(g,h,i)perylene	mg/L	**0.000031**	**0.210**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Benzo(k)fluoranthene	mg/L	**0.000031**	**0.0005**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Chrysene	mg/L	**0.000031**	**0.0048**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Dibenzo(a,h)anthracene	mg/L	**0.000031**	**0.000005**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Fluoranthene	mg/L	**0.003**	**0.280**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Fluorene	mg/L	**0.03**	**0.280**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Indeno(1,2,3-cd)pyrene	mg/L	**0.000031**	**0.00005**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Naphthalene	mg/L	**0.026**	**0.014**	<0.00049	<0.00046	<0.00047	<0.00046	<0.00046	<0.00048
Phenanthrene	mg/L	**0.000031**	**0.210**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Pyrene	mg/L	**0.0003**	**0.210**	<0.00049	<0.00046	<0.00047	<0.00046	<0.00046	<0.00048
1-Methylnaphthalene	mg/L	**0.095**	**0.028**	<0.00097	<0.00093	0.00094 I	<0.00093	<0.00093	<0.00096
2-Methylnaphthalene	mg/L	**0.03**	**0.028**	0.00021 I	<0.00019	0.00049 I	<0.00019	<0.00019	<0.00019
Petroleum Range Organic Ranges (Method FL-PRO)									
FL PRO	mg/L	**5.00**	**5.00**	0.050 I	<0.041	0.280	0.053 I	0.049 I	0.110

Notes:

All results in milligrams per liter (mg/L)
NA = Not Analyzed / Applicable
BTOC = Below Top of Casing
FDEP = Florida Department of Environmental Protection
GCTL=Groundwater Cleanup Target Level
SWCTL=Surface Water Cleanup Target Level
FP= Free Product
***Bold** =Valune in bold idetifies a result exceeding an FDEP GCTL*

Data Qualifiers:

<=The analyte was below detection limits
I = The reportable value is between the laboratory method detection limit and the laboratory practical quantitation limit

TABLE 5
GROUNDWATER MONITOR WELL ANALYTICAL SUMMARY
(January 18 and October 14, 2008)

Sample ID				MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	DMW-1
Date Well Sampled				1/18/2008	1/18/2008	1/18/2008	1/18/2008	1/18/2008	1/18/2008	10/14/2008	10/14/2008	10/14/2008
Depth-to-Water (ft, BTOC)				6.02	5.48	4.58	5.37	4.77	4.52	3.17	3.35	3.30
Depth-to-Product (ft, BTOC)				--	--	--	--	--	--	--	--	--
Temperature (ºC)				22.5	18.1	21.4	21.9	22.7	21.1	26.90	28.2	26.2
Conductivity (µS/cm)				136	133	348	198	153	151	12.600	5.59	12.5
pH				7.15	7.37	7.60	7.32	7.29	7.49	7.51	7.51	7.63
Turbidity (NTU)				4.81	3.70	1.61	5.50	5.00	2.60	14.30	8.76	2.24
Dissolved Oxygen (ppm)				0.310	0.940	0.340	1.31	0.500	1.41	0.180	0.09	0.28
LABORATORY ANALYSES	Units	FDEP SWCTL	FDEP GCTL									
Volatile Organic Aromatics (Method 8260)												
Total BTEX	mg/L	NA	NA	BDL	BDL	0.013	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	mg/L	**0.07128**	**0.001**	<0.00040	<0.00040	**0.0061**	<0.00040	<0.00040	<0.00040	<0.000065	<0.000065	<0.000065
Toluene	mg/L	**0.480**	**0.040**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.000076	<0.000076	<0.000076
Ethylbenzene	mg/L	**0.610**	**0.030**	<0.0010	<0.0010	0.0023	<0.0010	<0.0010	<0.0010	<0.000065	<0.000065	<0.000065
Total Xylenes	mg/L	**0.370**	**0.020**	<0.0010	<0.0010	0.0046	<0.0010	<0.0010	<0.0010	<0.000183	<0.000183	<0.000183
Methyl T-Butyl Ether	mg/L	**34.0**	**0.020**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.000077	<0.000077	<0.000077
Polynuclear Aromatic Hydrocarbons (Method 8270)												
Total PAHs	mg/L	NA	NA	BDL	BDL	0.004	BDL	BDL	BDL	0.138	BDL	BDL
Acenaphthene	mg/L	**0.003**	**0.020**	<0.00028	<0.00028	<0.00029	<0.00029	<0.00028	<0.00028	0.135 I	<0.000059	<0.000059
Acenaphthylene	mg/L	**0.000031**	**0.210**	<0.00028	<0.00028	<0.00029	<0.00029	<0.00028	<0.00028	<0.000037	<0.000037	<0.000037
Anthracene	mg/L	**0.0003**	**2.10**	<0.00028	<0.00028	<0.00029	<0.00029	<0.00028	<0.00028	0.00006 I	<0.000027	<0.000027
Benzo(a)anthracene	mg/L	**0.000031**	**0.00005**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.000035	<0.000035	<0.000035
Benzo(a)pyrene	mg/L	**0.000031**	**0.0002**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.000022	<0.000022	<0.000022
Benzo(b)fluoranthene	mg/L	**0.000031**	**0.00005**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.000026	<0.000026	<0.000026
Benzo(g,h,i)perylene	mg/L	**0.000031**	**0.210**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.000014	<0.000014	<0.000014
Benzo(k)fluoranthene	mg/L	**0.000031**	**0.0005**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.000027	<0.000027	<0.000027
Chrysene	mg/L	**0.000031**	**0.0048**	<0.00028	<0.00028	<0.00029	<0.00029	<0.00028	<0.00028	<0.000024	<0.000024	<0.000024
Dibenzo(a,h)anthracene	mg/L	**0.000031**	**0.000005**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.000014	<0.000014	<0.000014
Fluoranthene	mg/L	**0.003**	**0.280**	<0.00028	<0.00028	<0.00029	<0.00029	<0.00028	<0.00028	0.000238 I	<0.000036	<0.000036
Fluorene	mg/L	**0.03**	**0.280**	<0.00028	<0.00028	<0.00029	<0.00029	<0.00028	<0.00028	0.000145 I	<0.000028	<0.000028
Indeno(1,2,3-cd)pyrene	mg/L	**0.000031**	**0.00005**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.000013	<0.000013	<0.000013
Naphthalene	mg/L	**0.026**	**0.014**	<0.00056	<0.00057	<0.00057	<0.00058	<0.00056	<0.00056	<0.000037	<0.000037	<0.000037
Phenanthrene	mg/L	**0.000031**	**0.210**	<0.00056	<0.00057	<0.00057	<0.00058	<0.00056	<0.00056	0.000155	<0.000029	<0.000029
Pyrene	mg/L	**0.0003**	**0.210**	<0.00056	<0.00057	<0.00057	<0.00058	<0.00056	<0.00056	0.000195 I	<0.000026	<0.000026
1-Methylnaphthalene	mg/L	**0.095**	**0.028**	<0.00056	<0.00057	0.0016 I	<0.00058	<0.00056	<0.00056	0.00161	<0.000024	<0.000024
2-Methylnaphthalene	mg/L	**0.03**	**0.028**	<0.00056	<0.00057	0.0028 I	<0.00058	<0.00056	<0.00056	0.00038 I	<0.000023	<0.000023
Petroleum Range Organic Ranges (Method FL-PRO)												
FL PRO	mg/L	**5.00**	**5.00**	0.100 I	<0.038	0.25	0.071 I	<0.038	<0.041	0.873	0.233	0.458

Notes:

All results in milligrams per liter (mg/L)
NA = Not Analyzed / Applicable
BTOC = Below Top of Casing
FDEP = Florida Department of Environmental Protection
GCTL=Groundwater Cleanup Target Level
SWCTL=Surface Water Cleanup Target Level
FP= Free Product
***Bold** =Valune in bold idetifies a result exceeding an FDEP GCTL*

Data Qualifiers:

<=The analyte was below detection limits
I = The reportable value is between the laboratory method detection limit and the laboratory practical quantitation limit

FIGURES

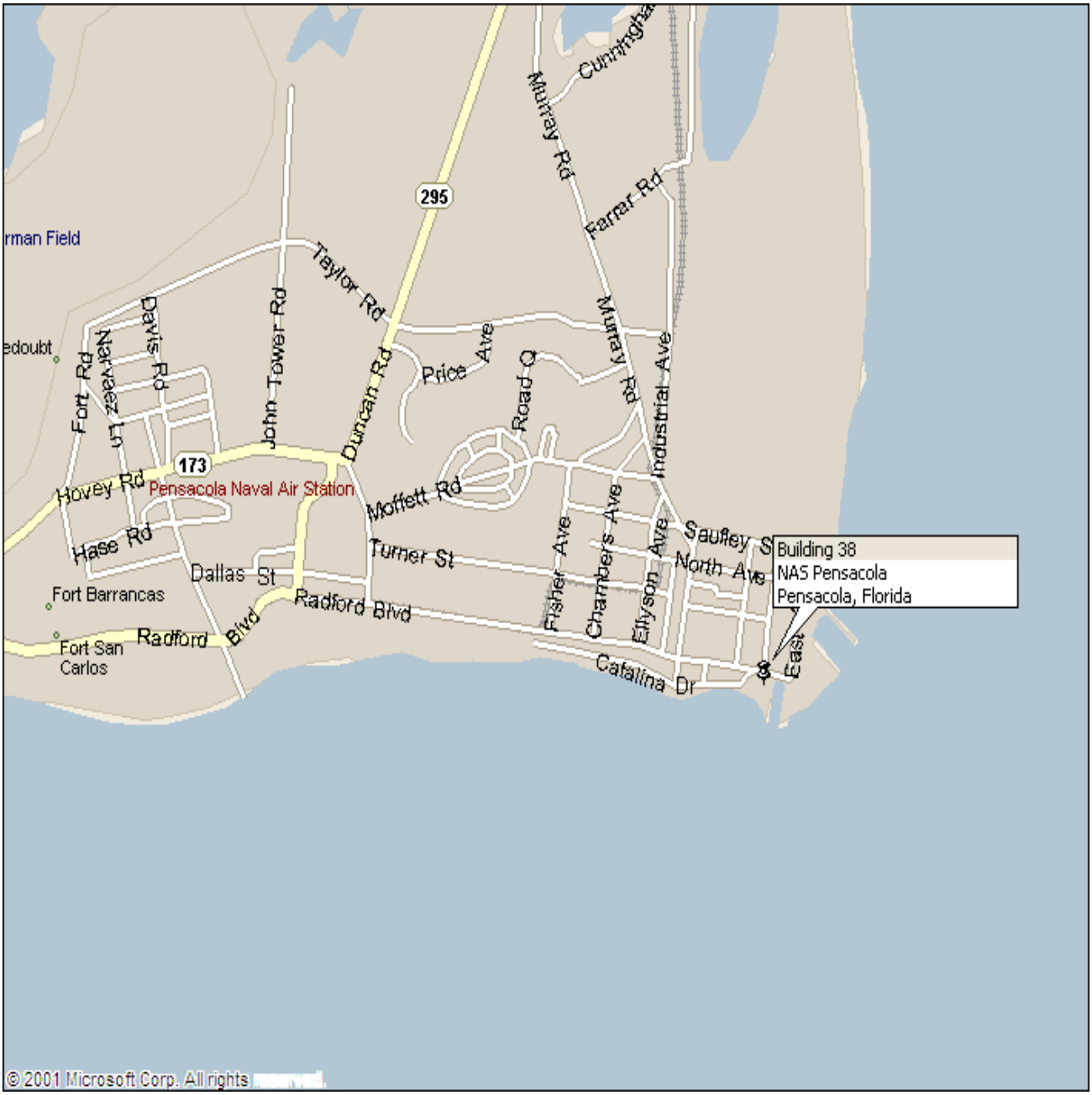


FIGURE 1 - STREET SITE LOCATION MAP

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38-SEAWALL PETROLEUM SITE
NAS PENSACOLA
PENSACOLA, ESCAMBIA COUNTY
FLORIDA

DRAWN BY: EAW

REFERENCE: MAP OF PENSACOLA, FLORIDA
PREPARED BY: THE MICROSOFT CORP.

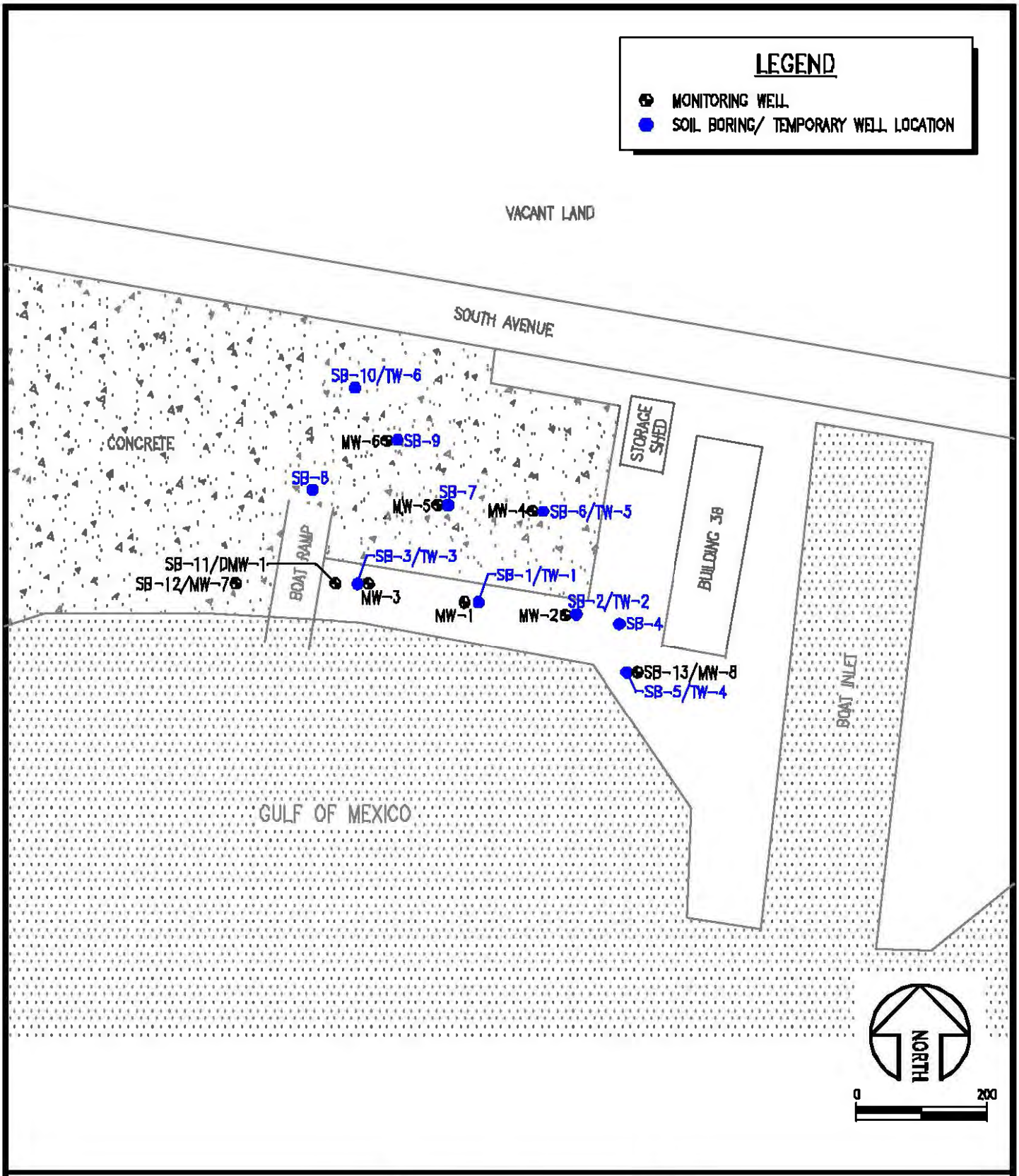


FIGURE 2 – SITE MAP

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

JOB # 0407-466-05
DATE: NOVEMBER 2008
DRAWN BY: WIEN

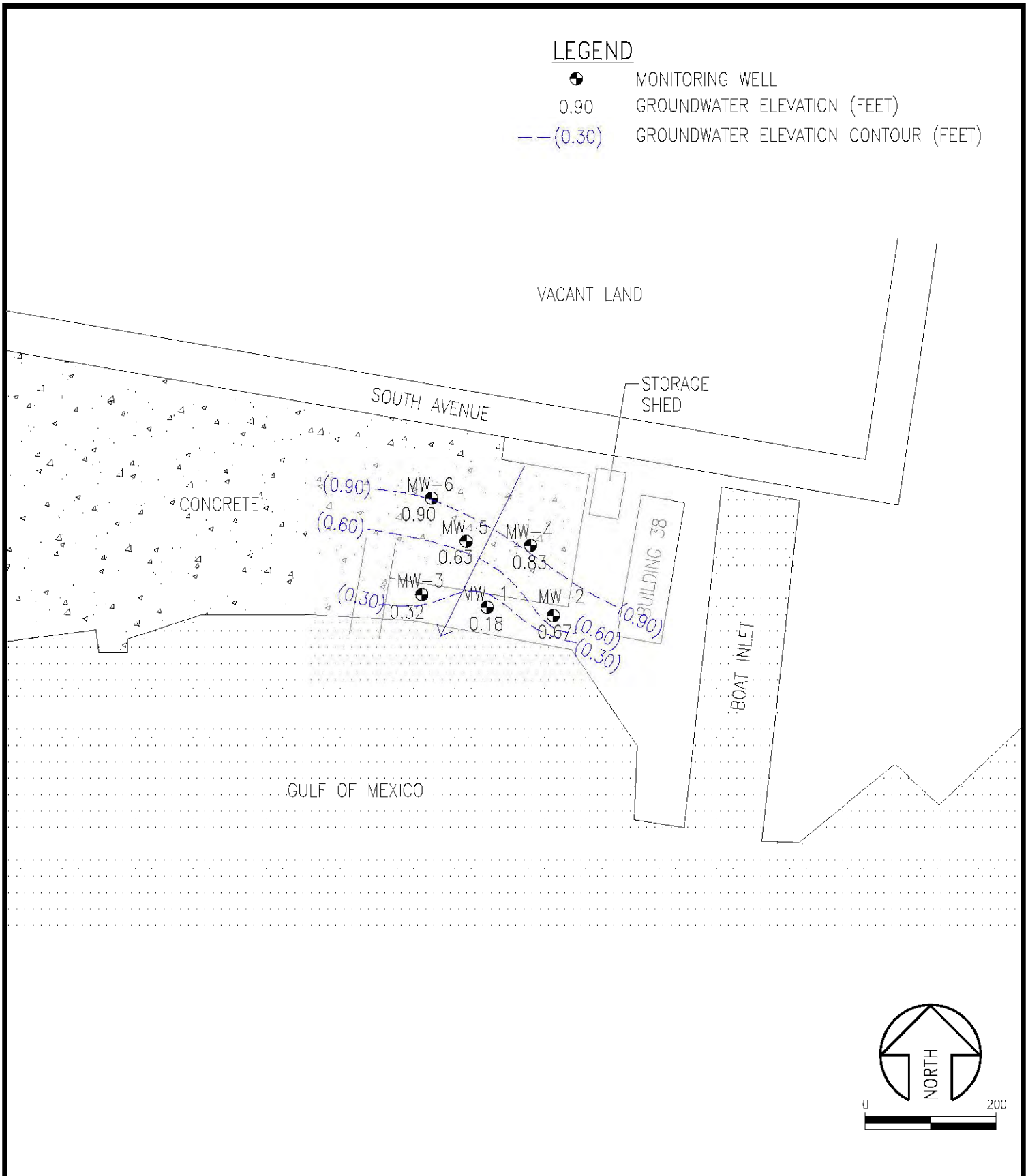
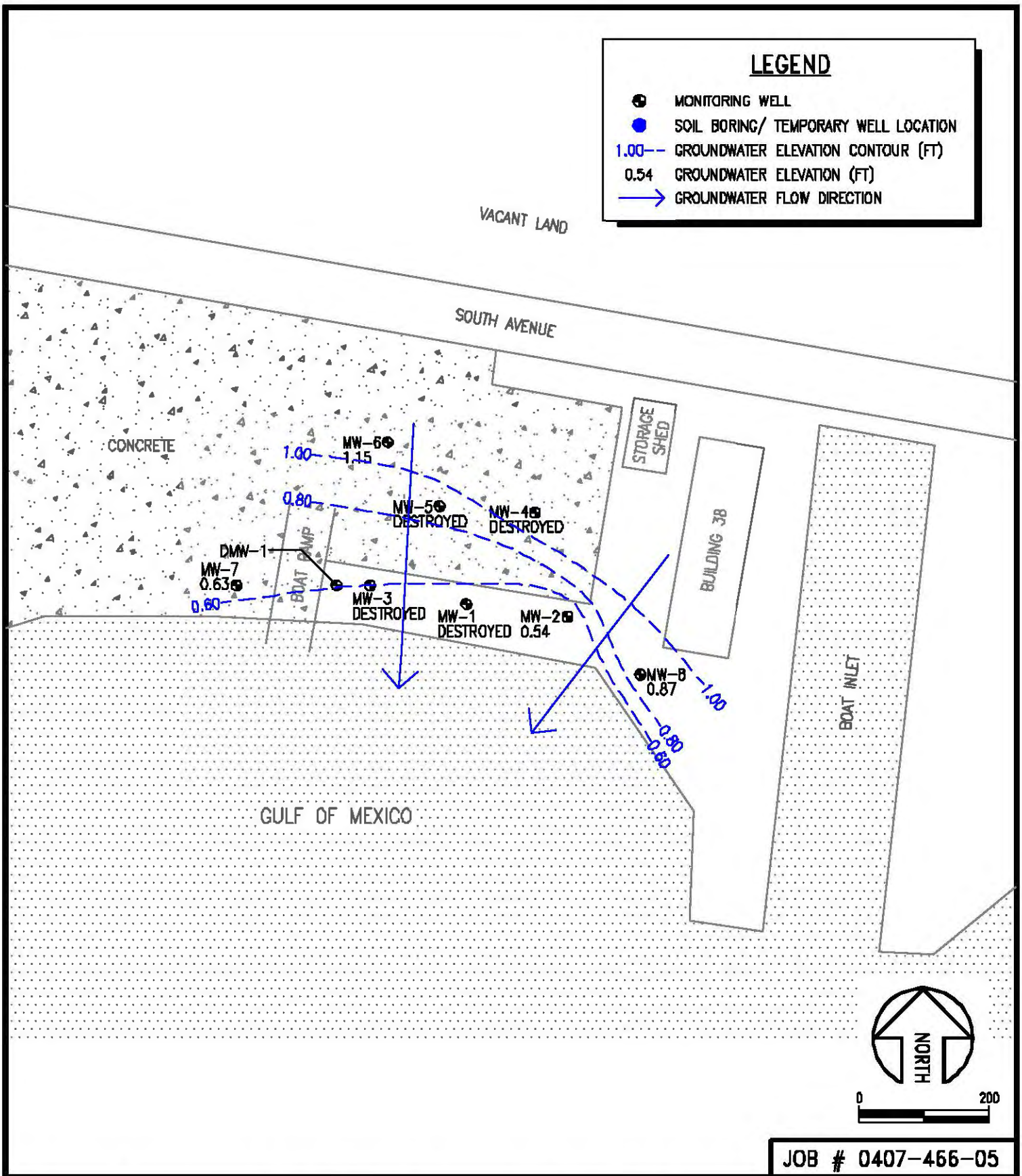


FIGURE 3 – GROUNDWATER ELEVATION MAP (JANUARY 18, 2008)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

JOB # 0407-466-05
DATE: AUGUST 2008
DRAWN BY: WIEN



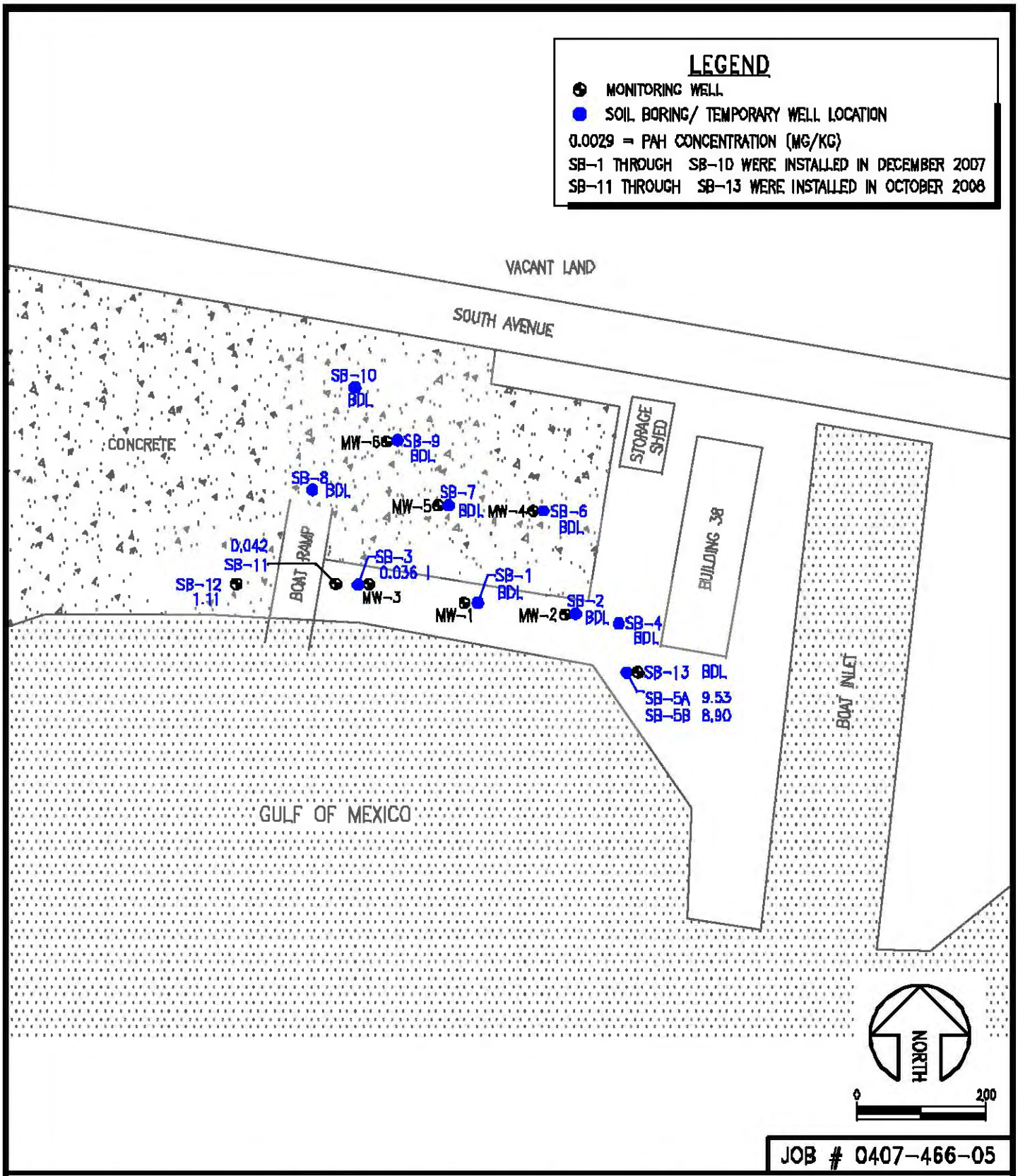
JOB # 0407-466-05

FIGURE 4 – GROUNDWATER ELEVATION MAP (OCTOBER 14, 2008)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

SCALE: 1" = 200'-0"
DATE: DECEMBER 2008
DRAWN BY: WIEN



JOB # 0407-466-05

FIGURE 5 - TOTAL PAH CONCENTRATIONS IN SOIL MAP (DECEMBER 17, 2007)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

SCALE: 1" = 200'-0"
DATE: NOVEMBER 2008
DRAWN BY: WIEN

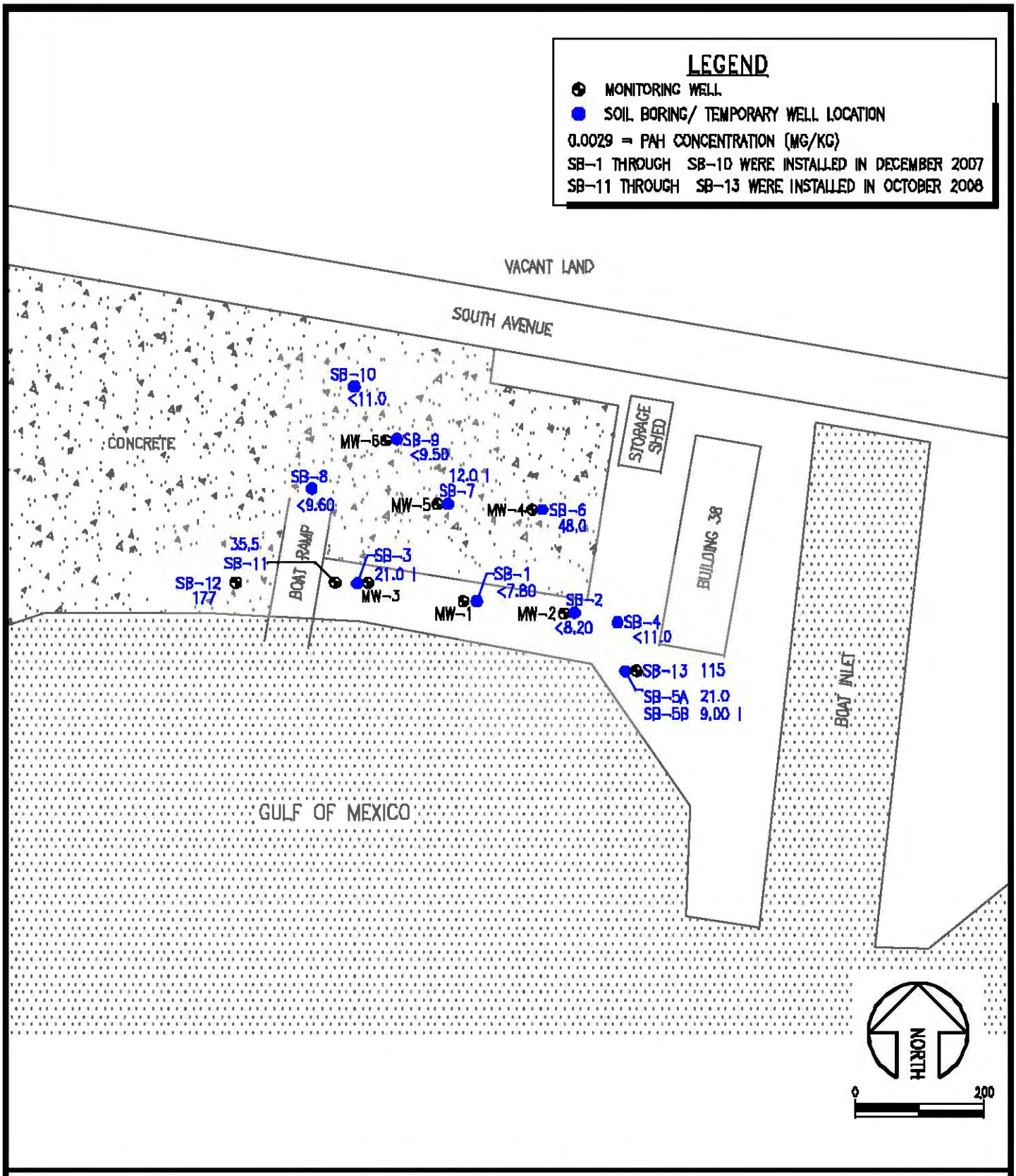


FIGURE 6 – TRPH CONCENTRATIONS IN SOIL MAP (DECEMBER 17, 2007)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

JOB # 0407-466-05
DATE: NOVEMBER 2008
DRAWN BY: WIEN

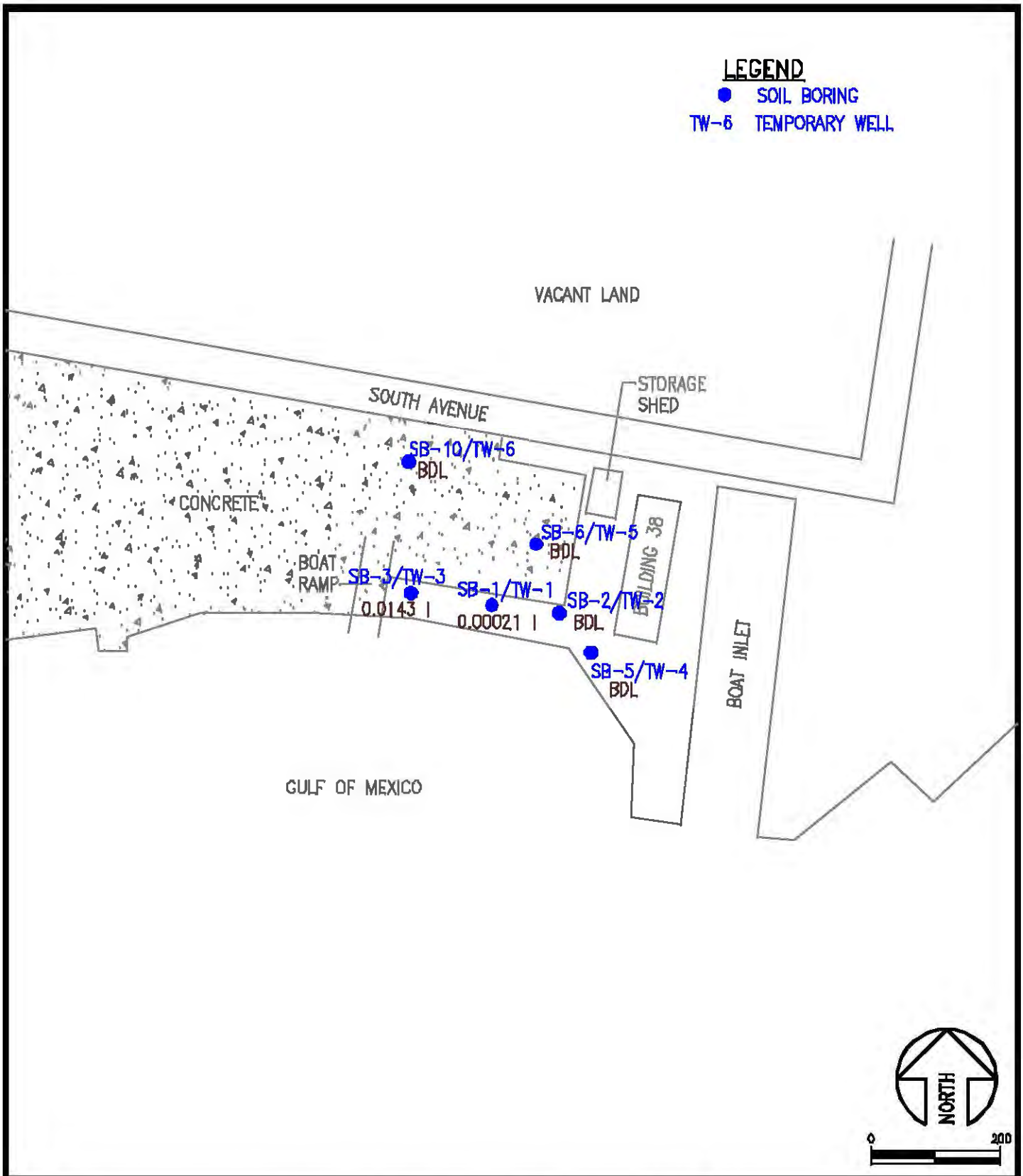


FIGURE 7 – TOTAL PAH CONCENTRATIONS IN GROUNDWATER MAP (DECEMBER 20, 2007)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

JOB #: 0407-466-05
DATE: MARCH 2008
DRAWN BY: WIEN

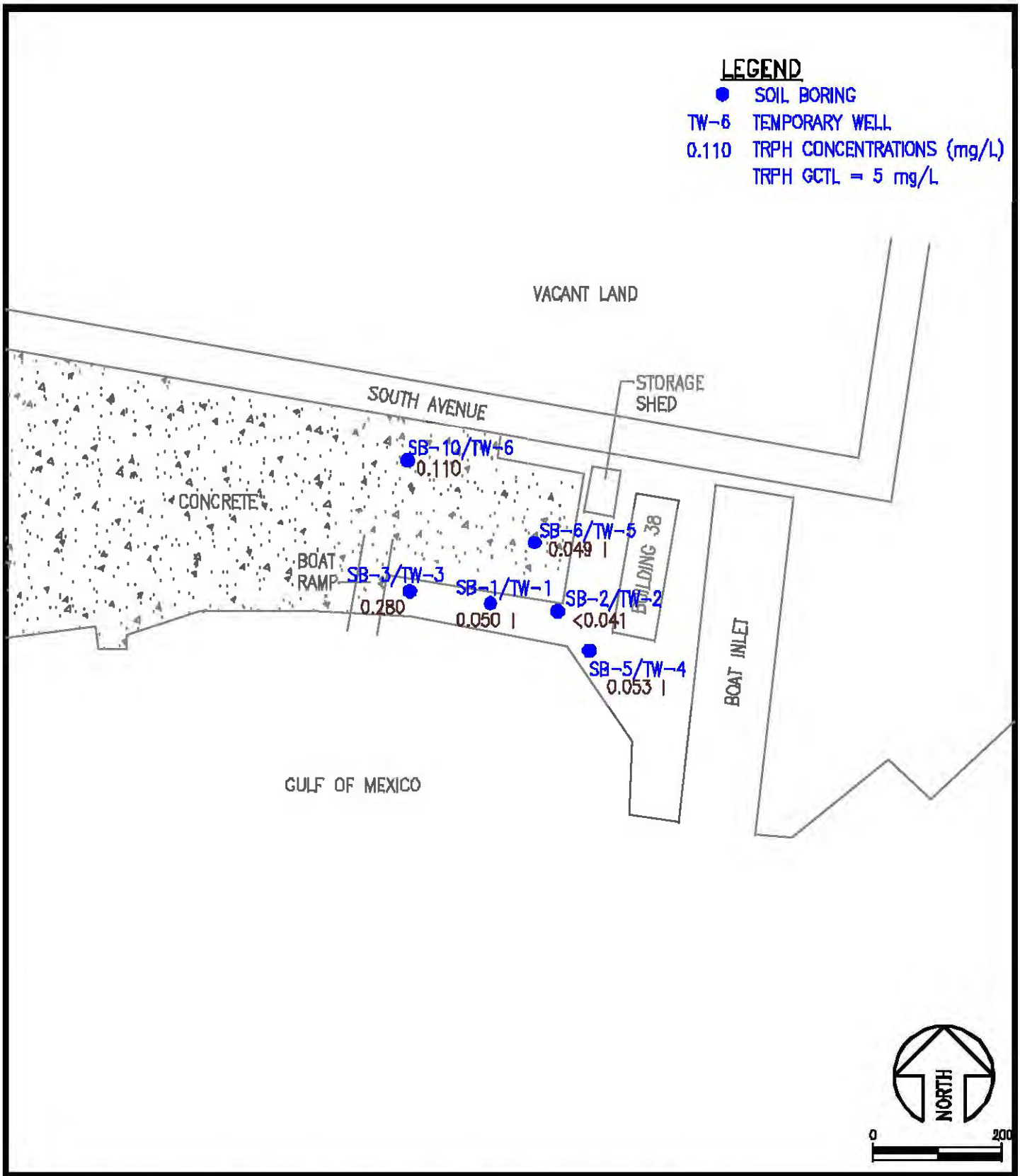


FIGURE 8 – TRPH CONCENTRATIONS IN GROUNDWATER MAP (DECEMBER 20, 2007)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

JOB #: 0407-466-05
DATE: MARCH 2008
DRAWN BY: WIEN

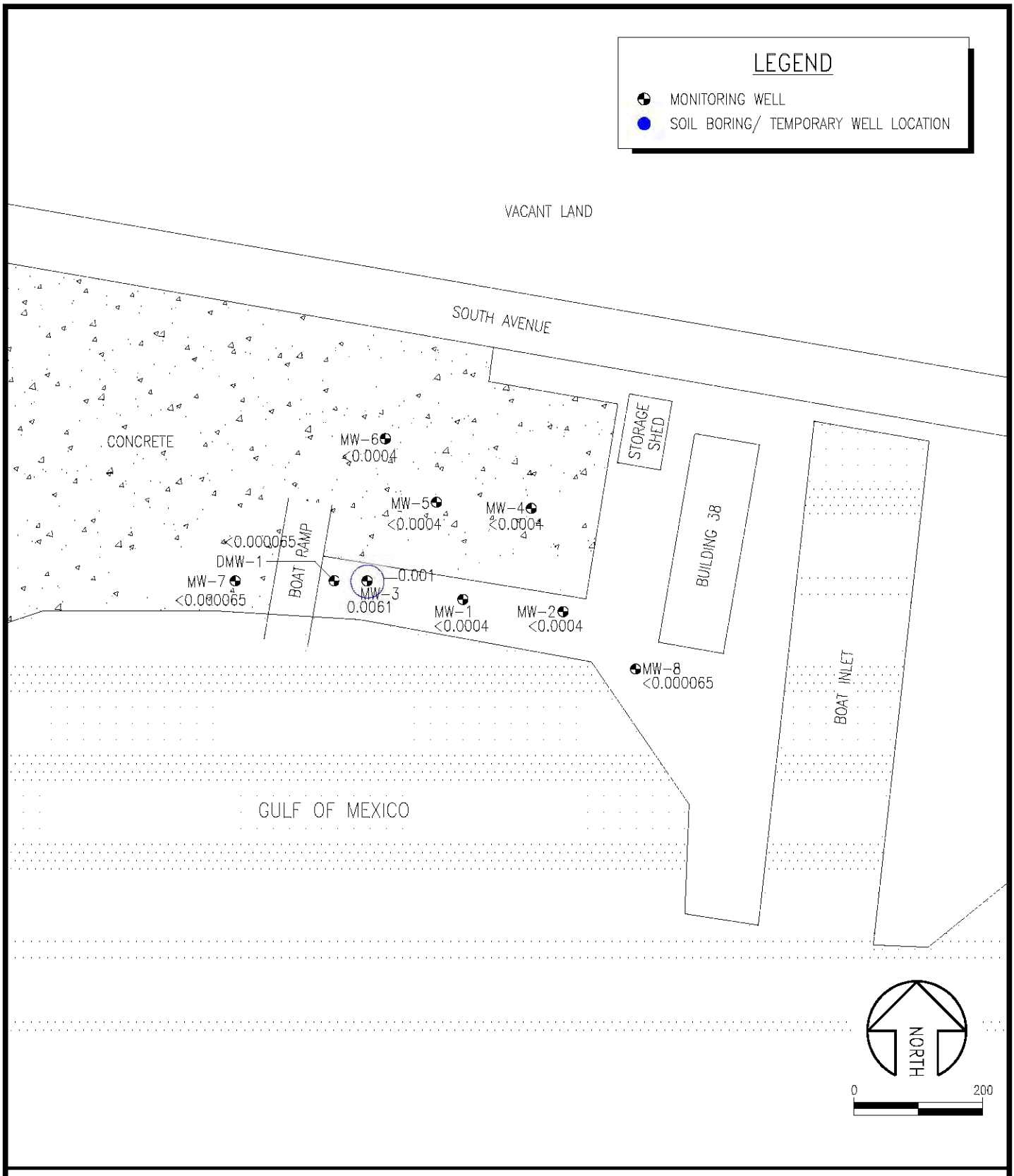


FIGURE 9 – BENZENE CONCENTRATIONS IN GROUNDWATER MAP (JANUARY 18 AND OCTOBER 16, 2008)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

JOB # 0407-466-05
DATE: NOVEMBER 2008
DRAWN BY: WIEN

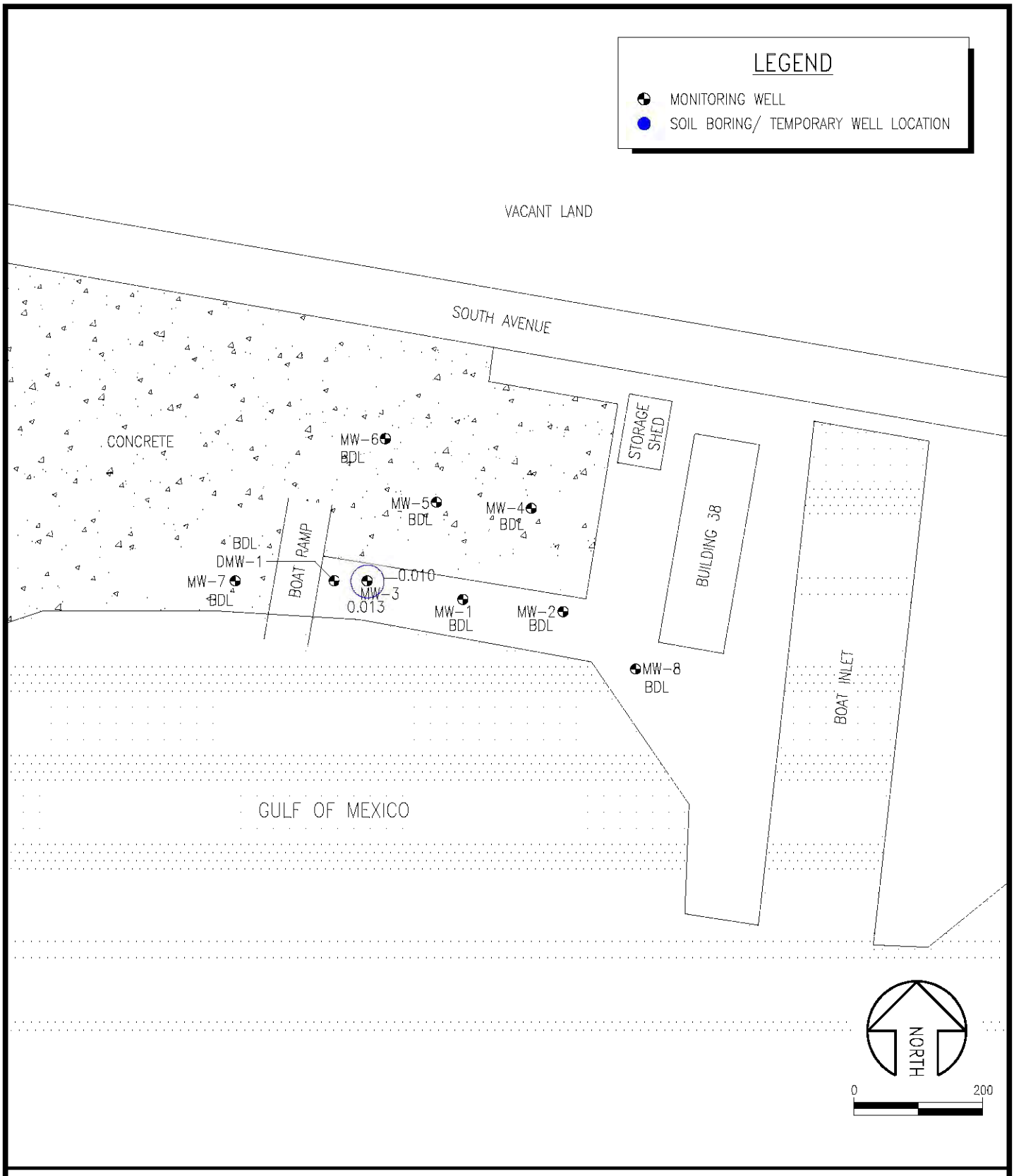


FIGURE 10 – TOTAL BTEX CONCENTRATIONS IN GROUNDWATER MAP (JANUARY 18 AND OCTOBER 16, 2008)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

JOB # 0407-466-05
DATE: NOVEMBER 2008
DRAWN BY: WIEN

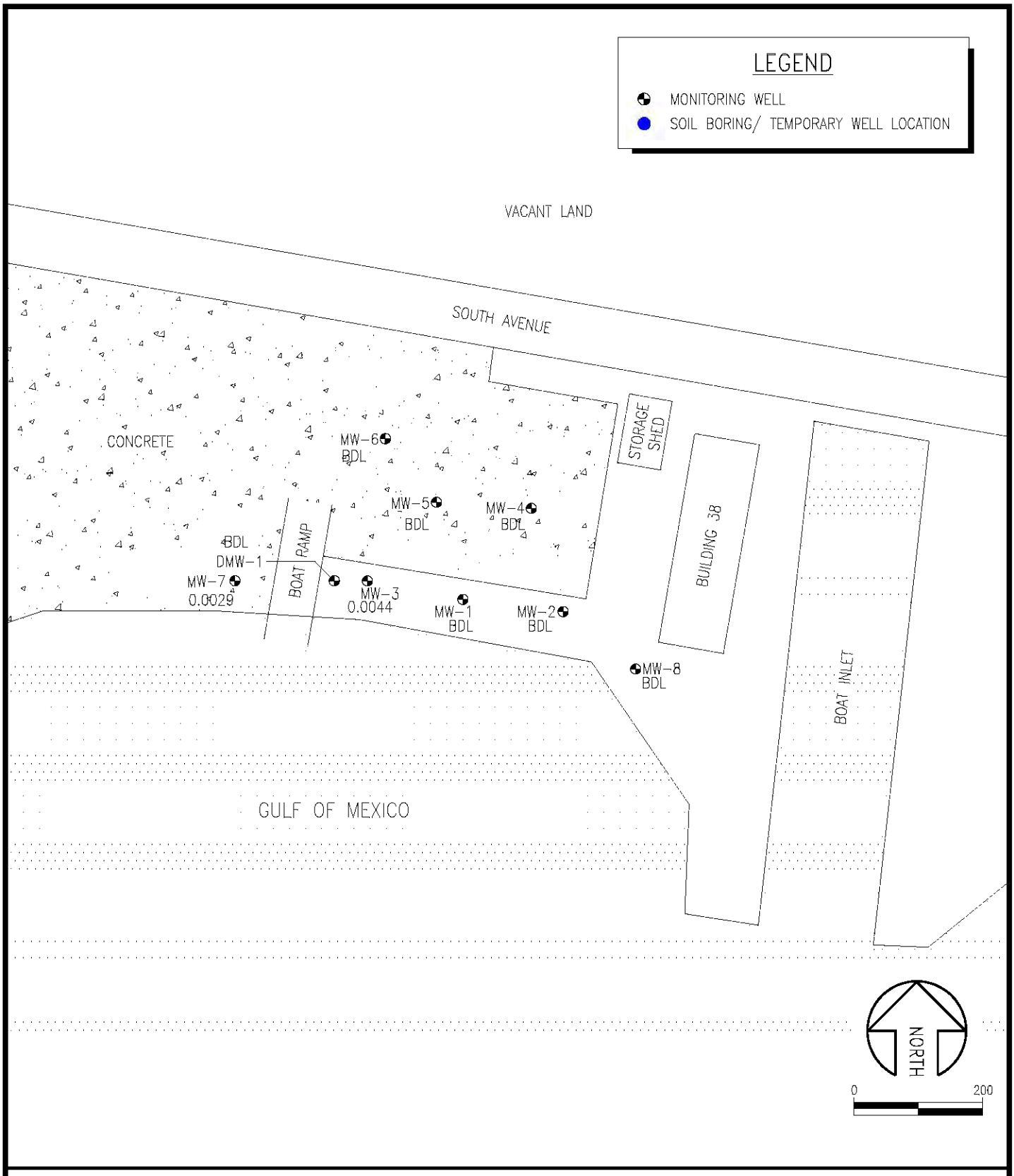


FIGURE 11 – TOTAL PAH CONCENTRATIONS IN GROUNDWATER MAP (JANUARY 18 AND OOTBER 16, 2008)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

JOB # 0407-466-05
DATE: NOVEMBER 2008
DRAWN BY: WIEN

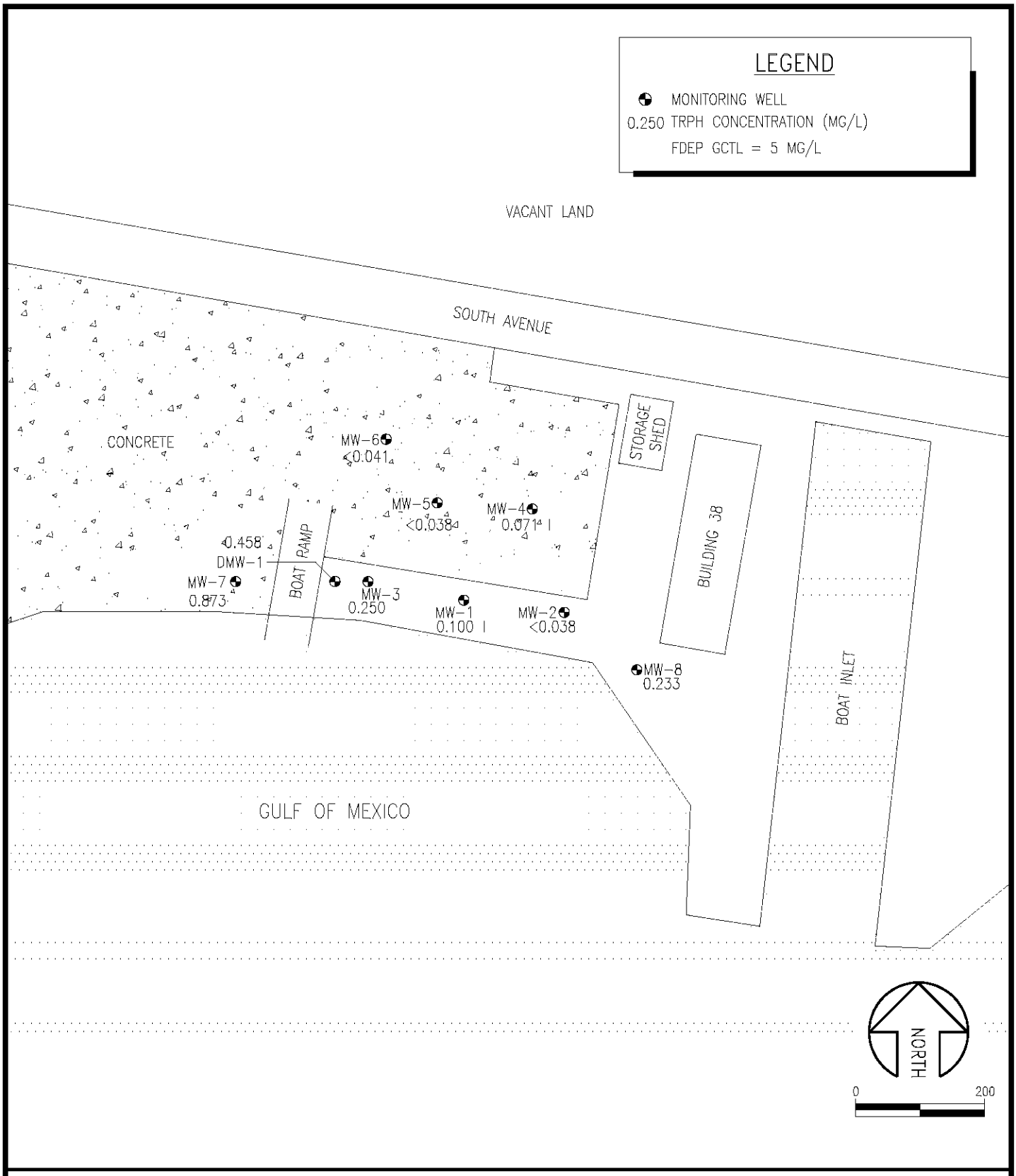


FIGURE 12 – TRPH CONCENTRATIONS IN GROUNDWATER MAP (JANUARY 18 AND OCTOBER 16, 2008)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

BUILDING 38
(SEAWALL PETROLEUM SITE)
NAS PENSACOLA, FLORIDA

JOB # 0407-466-05
DATE: NOVEMBER 2008
DRAWN BY: WIEN

APPENDIX A

Soil Boring Logs

BORING LOG

Boring/Well Number: SB-1	Permit Number:		FDEP Facility Identification Number:
Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 12/17/2007 End Date: 12/17/2007	Borehole Start Time: 10:00 ☐ AM ☐ PM End Time: 10:40 ☐ AM ☐ PM	
Environmental Contractor: Aerostar Environmental Services	Geologist's Name:		Environmental Technician's Name: Adam Davis
Drilling Company: Singley Construction	Pavement Thickness (inches): Not Applicable	Borehole Diameter (inches): 4"	Borehole Depth (feet): 14'
Drilling Method(s): Direct Push	Apparent Borehole DTW (in feet from soil moisture content): 6.0'	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA	0-2	24	NA	0	0	0	1 2	1" of grass; moist, brown, medium grained, sand Moist, red, medium grained, sand	SM	10	0
HA HA	2-4	24	NA	400	20	380	3 4	Same as above Wet, dark brown, medium grained, sand; petroleum odor	SM	50	0 SB-1 (4-5')
DP DP	4-6	24	NA	5,000	0	5,000	5 6	Same as above Saturated, gray, fine grained, sand; strong petroleum odor	SM	100	0
DP DP	6-8	24	NA	7,250	0	7,250	7 8	Same as above Same as above	SM	100	0
DP DP	8-10	24	NA	3,010	0	3,010	9 10	Same as above Saturated, gray coarse grained, sand	SM	100	0
DP DP	10-12	24	NA	825	0	825	11 12	Same as above Same as above	SM	100	0
DP DP	12-14	24	NA	600	0	600	13 14	Same as above Same as above	SM	100	0

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-2		

Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 12/17/2007	Borehole Start Time: 10:45 ☐ AM ☐ PM
	End Date: 12/17/2007	End Time: 11:10 ☐ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Aerostar Environmental Services		Adam Davis

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Singley Construction	Not Applicable	4"	14'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct Push	6.0'	NA	☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2	24	NA	20	20	0	1	1" of grass; moist, brown, medium grained, sand	SM	10	0
HA							2	Moist, tan, medium grained, sand			
HA	2-4	24	NA	85	10	75	3	Same as above	SM	50	0
HA							4	Wet, tan, medium grained, sand; petroleum odor			SB-2 (4-5')
DP	4-6	24	NA	6,000	0	6,000	5	Same as above	SM	100	
DP							6	Saturated, gray, fine grained, sand; strong petroleum odor			0
DP	6-8	24	NA	6,040	0	6,040	7	Same as above	SM	100	0
DP							8	Same as above			
DP	8-10	24	NA	2,000	0	2,000	9	Same as above	SM	100	0
DP							10	Saturated, white, fine grained, sand			
DP	10-12	24	NA	1,500	0	1,500	11	Same as above	SM	100	0
DP							12	Same as above			
DP	12-14	24	NA	1,000	0	1,000	13	Same as above	SM	100	0
DP							14	Same as above			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-3	Permit Number:		FDEP Facility Identification Number:
Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 12/17/2007 End Date: 12/17/2007	Borehole Start Time: 11:15 ☐ AM ☐ PM End Time: 11:30 ☐ AM ☐ PM	
Environmental Contractor: Aerostar Environmental Services	Geologist's Name:		Environmental Technician's Name: Adam Davis
Drilling Company: Singley Construction	Pavement Thickness (inches): Not Applicable	Borehole Diameter (inches): 4"	Borehole Depth (feet): 14'
Drilling Method(s): Direct Push	Apparent Borehole DTW (in feet from soil moisture content): 6.0'	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA	0-2	24	NA	0	0	0	1 2	1" of grass; moist, tan, medium grained, sand Moist, tan, medium grained, sand	SM	10	0
HA HA	2-4	24	NA	120	0	120	3 4	Same as above Moist to wet, tan, medium grained, sand; petroleum odor	SM	50	0 SB-3 (4-5')
DP DP	4-6	24	NA	245	0	245	5 6	Same as above Saturated, tan, fine grained, sand; slight petroleum odor	SM	100	0
DP DP	6-8	24	NA	200	0	200	7 8	Same as above Same as above	SM	100	0
DP DP	8-10	24	NA	180	0	180	9 10	Saturated, white, fine grained, sand Same as above	SM	100	0
DP DP	10-12	24	NA	95	0	95	11 12	Same as above Same as above	SM	100	0
DP DP	12-14	24	NA	40	0	40	13 14	Same as above Same as above	SM	100	0

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-4	Permit Number:		FDEP Facility Identification Number:
Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 12/17/2007	Borehole Start Time: 11:35 ☐ AM ☐ PM	
	End Date: 12/17/2007	End Time: 11:50 ☐ AM ☐ PM	
Environmental Contractor: Aerostar Environmental Services	Geologist's Name:		Environmental Technician's Name: Adam Davis
Drilling Company: Singley Construction	Pavement Thickness (inches): Not Applicable	Borehole Diameter (inches): 4"	Borehole Depth (feet): 14'
Drilling Method(s): Direct Push	Apparent Borehole DTW (in feet from soil moisture content): 6.0'	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA	0-2	24	NA	0	0	0	1 2	4" of concrete; moist, tan, medium grained, sand Moist, tan, medium grained, sand	SM	10	0
HA HA	2-4	24	NA	20	10	10	3 4	Same as above Moist to wet, tan, medium grained, sand	SM	50	0 SB-4 (4-5')
DP DP	4-6	24	NA	25	10	15	5 6	Same as above Saturated, tan, fine grained, sand;	SM	100	0
DP DP	6-8	24	NA	35	0	35	7 8	Same as above Same as above	SM	100	0
DP DP	8-10	24	NA	65	0	65	9 10	Saturated, white, fine grained, sand Same as above	SM	100	0
DP DP	10-12	24	NA	50	0	50	11 12	Same as above Same as above	SM	100	0
DP DP	12-14	24	NA	50	0	50	13 14	Same as above Same as above	SM	100	0

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-5	Permit Number:		FDEP Facility Identification Number:
Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 12/17/2007 End Date: 12/17/2007	Borehole Start Time: 11:15 ☐ AM ☐ PM End Time: 11:30 ☐ AM ☐ PM	
Environmental Contractor: Aerostar Environmental Services	Geologist's Name:		Environmental Technician's Name: Adam Davis
Drilling Company: Singley Construction	Pavement Thickness (inches): Not Applicable	Borehole Diameter (inches): 4"	Borehole Depth (feet): 14'
Drilling Method(s): Direct Push	Apparent Borehole DTW (in feet from soil moisture content): 6.0'	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA	0-2	24	NA	100	0	100	1 2	4" of concrete; moist, tan, medium grained, sand Moist, tan, medium grained, sand	SM	10	0
HA HA	2-4	24	NA	650	0	650	3 4	Same as above Moist to wet, tan, medium grained, sand;	SM	50	SB-5A
DP DP	4-6	24	NA	3,000	0	3,000	5 6	slight petroleum odor Saturated, tan, fine grained, sand; strong petroleum odor	SM	100	SB-5B
DP DP	6-8	24	NA	3,500	0	3,500	7 8	Same as above Same as above	SM	100	0
DP DP	8-10	24	NA	3,100	0	3,100	9 10	Saturated, white, fine grained, sand Same as above	SM	100	0
DP DP	10-12	24	NA	1,250	0	1,250	11 12	Same as above Same as above	SM	100	0
DP DP	12-14	24	NA	400	0	400	13 14	Same as above Same as above	SM	100	0

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-6		

Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 12/17/2007	Borehole Start Time: 12:45 ☐ AM ☐ PM
	End Date: 12/17/2007	End Time: 13:10 ☐ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Aerostar Environmental Services		Adam Davis

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Singley Construction	Not Applicable	4"	14'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct Push	6.0'	NA	☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2	24	NA	0	0	0	1	4" of concrete; moist, tan, medium grained, sand	SM	10	0
HA							2	Moist, tan, medium grained, sand			
HA	2-4	24	NA	0	0	0	3	Same as above	SM	50	0
HA							4	Moist, tan, medium grained, sand			SB-6 (4-5')
DP	4-6	24	NA	10	5	5	5	Same as above	SM	100	
DP							6	Saturated, tan, fine grained, sand;			0
DP	6-8	24	NA	15	5	10	7	Same as above	SM	100	0
DP							8	Same as above			
DP	8-10	24	NA	10	0	10	9	Saturated, white, fine grained, sand	SM	100	0
DP							10	Same as above			
DP	10-12	24	NA	10	0	10	11	Same as above	SM	100	0
DP							12	Same as above			
DP	12-14	24	NA	10	0	10	13	Same as above	SM	100	0
DP							14	Same as above			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-7	Permit Number:		FDEP Facility Identification Number:
Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 12/17/2007	Borehole Start Time: 13:30 ☐ AM ☐ PM	
	End Date: 12/17/2007	End Time: 14:10 ☐ AM ☐ PM	
Environmental Contractor: Aerostar Environmental Services	Geologist's Name:		Environmental Technician's Name: Adam Davis
Drilling Company: Singley Construction	Pavement Thickness (inches): Not Applicable	Borehole Diameter (inches): 4"	Borehole Depth (feet): 14'
Drilling Method(s): Direct Push	Apparent Borehole DTW (in feet from soil moisture content): 6.0'	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA	0-2	24	NA	5	0	5	1 2	4" of concrete; moist, tan, medium grained, sand Moist, tan, medium grained, sand	SM	10	0
HA HA	2-4	24	NA	0	0	0	3 4	Same as above Moist, tan, medium grained, sand	SM	50	0 SB-7 (4-5')
DP DP	4-6	24	NA	25	0	25	5 6	Same as above Saturated, tan, fine grained, sand;	SM	100	0
DP DP	6-8	24	NA	15	0	15	7 8	Same as above Same as above	SM	100	0
DP DP	8-10	24	NA	10	0	10	9 10	Saturated, white, fine grained, sand Same as above	SM	100	0
DP DP	10-12	24	NA	0	0	0	11 12	Same as above Same as above	SM	100	0
DP DP	12-14	24	NA	0	0	0	13 14	Same as above Same as above	SM	100	0

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-8		

Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 12/17/2007	Borehole Start Time: 13:00 ☐ AM ☐ PM
	End Date: 12/17/2007	End Time: 13:40 ☐ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Aerostar Environmental Services		Adam Davis

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Singley Construction	Not Applicable	4"	14'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct Push	6.0'	NA	☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA	0-2	24	NA	0	0	0	1 2	4" of concrete; moist, tan, medium grained, sand Moist, tan, medium grained, sand	SM	10	0
HA HA	2-4	24	NA	0	0	0	3 4	Same as above Moist, tan, medium grained, sand	SM	50	0 SB-8 (4-5')
DP DP	4-6	24	NA	0	0	0	5 6	Same as above Saturated, tan, fine grained, sand;	SM	100	0
DP DP	6-8	24	NA	5	0	5	7 8	Same as above Same as above	SM	100	0
DP DP	8-10	24	NA	0	0	0	9 10	Saturated, white, fine grained, sand Same as above	SM	100	0
DP DP	10-12	24	NA	0	0	0	11 12	Same as above Same as above	SM	100	0
DP DP	12-14	24	NA	0	0	0	13 14	Same as above Same as above	SM	100	0

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-9		

Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 12/17/2007	Borehole Start Time: 14:15 ☐ AM ☐ PM
	End Date: 12/17/2007	End Time: 14:20 ☐ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Aerostar Environmental Services		Adam Davis

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
Singley Construction	Not Applicable	4"	14'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
Direct Push	6.0'	NA	☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2	24	NA	20	0	20	1	4" of concrete; moist, tan, medium grained, sand	SM	10	0
HA							2	Moist, tan, medium grained, sand			
HA	2-4	24	NA	35	0	35	3	Same as above	SM	50	0
HA							4	Moist, tan, medium grained, sand			SB-9 (4-5')
DP	4-6	24	NA	35	0	35	5	Same as above	SM	100	
DP							6	Saturated, tan, fine grained, sand;			0
DP	6-8	24	NA	40	0	40	7	Same as above	SM	100	0
DP							8	Same as above			
DP	8-10	24	NA	30	0	30	9	Saturated, white, fine grained, sand	SM	100	0
DP							10	Same as above			
DP	10-12	24	NA	10	0	10	11	Same as above	SM	100	0
DP							12	Same as above			
DP	12-14	24	NA	0	0	0	13	Same as above	SM	100	0
DP							14	Same as above			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-10	Permit Number:		FDEP Facility Identification Number:
Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 12/17/2007	Borehole Start Time: 14:25 ☐ AM ☐ PM	
	End Date: 12/17/2007	End Time: 14:30 ☐ AM ☐ PM	
Environmental Contractor: Aerostar Environmental Services	Geologist's Name:		Environmental Technician's Name: Adam Davis
Drilling Company: Singley Construction	Pavement Thickness (inches): Not Applicable	Borehole Diameter (inches): 4"	Borehole Depth (feet): 14'
Drilling Method(s): Direct Push	Apparent Borehole DTW (in feet from soil moisture content): 6.0'	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA	0-2	24	NA	0	0	0	1 2	4" of concrete; moist, tan, medium grained, sand Moist, tan, medium grained, sand	SM	10	0
HA HA	2-4	24	NA	0	0	0	3 4	Same as above Moist, tan, medium grained, sand	SM	50	0 SB-10 (4-5')
DP DP	4-6	24	NA	0	0	0	5 6	Same as above Saturated, tan, fine grained, sand;	SM	100	0
DP DP	6-8	24	NA	0	0	0	7 8	Same as above Same as above	SM	100	0
DP DP	8-10	24	NA	0	0	0	9 10	Saturated, white, fine grained, sand Same as above	SM	100	0
DP DP	10-12	24	NA	0	0	0	11 12	Same as above Same as above	SM	100	0
DP DP	12-14	24	NA	0	0	0	13 14	Same as above Same as above	SM	100	0

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-11 / DMW-1	Permit Number:		FDEP Facility Identification Number:
Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 10/1/2008 End Date: 10/1/2008	Borehole Start Time: 8:30 ☐ AM ☐ PM End Time: 9:30 ☐ AM ☐ PM	
Environmental Contractor: Aerostar Environmental Services	Geologist's Name:		Environmental Technician's Name: Adam Davis
Drilling Company: Singley Construction	Pavement Thickness (inches): Not Applicable	Borehole Diameter (inches): 4"	Borehole Depth (feet): 14'
Drilling Method(s): Hollow Stem Auger	Apparent Borehole DTW (in feet from soil moisture content): 6.0'	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2	24	NA	0	0	0	1	1" of grass; moist, tan, medium grained, sand	SM	10	0
HA							2	Moist, tan, medium grained, sand			
HA	2-4	24	NA	250	0	250	3	Same as above	SM	50	0
HA							4	Moist to wet, tan, medium grained, sand; petroleum odor			SB-11 (4-5')
DP	4-6	24	NA	4,500	0	4,500	5	Same as above	SM	75	
DP							6	Saturated, tan, fine grained, sand; slight petroleum odor			0
DP	6-8	24	NA	8,450	0	8,450	7	Same as above	SM	100	0
DP							8	Same as above			
DP	8-10	24	NA	7,900	0	7,900	9	Saturated, white, fine grained, sand	SM	100	0
DP							10	Same as above			
DP	10-12	24	NA	1,000	0	1,000	11	Same as above	SM	100	0
DP							12	Same as above			
DP	12-14	24	NA	450	0	450	13	Same as above	SM	100	0
DP							14	Same as above			
HA	14-16	24	NA	100	0	100	3	Same as above	SM	50	0
HA							4	Same as above			
DP	16-18	24	NA	0	0	0	5	Same as above	SM	100	0
DP							6	Same as above			
DP	18-20	24	NA	0	0	0	7	Same as above	SM	100	0
DP							8	Same as above			
DP	20-22	24	NA	NA	NA	NA	9	Same as above	SM	100	0
DP							10	Same as above			
DP	22-24	24	NA	NA	NA	NA	11	Same as above	SM	100	0
DP							12	Same as above			
DP	24-26	24	NA	NA	NA	NA	13	Same as above	SM	100	0
DP							14	Same as above			
DP	26-28	24	NA	NA	NA	NA	9	Same as above	SM	100	0
DP							10	Same as above			
DP	28-30	24	NA	NA	NA	NA	11	Same as above	SM	100	0
DP							12	Same as above			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-12/ MW-7	Permit Number:		FDEP Facility Identification Number:
Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 10/1/2008 End Date: 10/1/2008	Borehole Start Time: 9:30 ☐ AM ☐ PM End Time: 10:15 ☐ AM ☐ PM	
Environmental Contractor: Aerostar Environmental Services	Geologist's Name:		Environmental Technician's Name: Adam Davis
Drilling Company: Singley Construction	Pavement Thickness (inches): Not Applicable	Borehole Diameter (inches): 4"	Borehole Depth (feet): 14'
Drilling Method(s): Hollow Stem Auger	Apparent Borehole DTW (in feet from soil moisture content): 6.0'	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA	0-2	24	NA	0	0	0	1 2	1" of grass; moist, tan, medium grained, sand Moist, tan, medium grained, sand	SM	10	0
HA HA	2-4	24	NA	0	0	0	3 4	Same as above Moist to wet, tan, medium grained, sand; petroleum odor	SM	50	0 SB-12 (4-5')
DP DP	4-6	24	NA	40	0	40	5 6	Same as above Saturated, tan, fine grained, sand; slight petroleum odor	SM	75	0
DP DP	6-8	24	NA	100	0	100	7 8	Same as above Same as above	SM	100	0
DP DP	8-10	24	NA	120	0	120	9 10	Saturated, white, fine grained, sand Same as above	SM	100	0
DP DP	10-12	24	NA	100	0	100	11 12	Same as above Same as above	SM	100	0
DP DP	12-14	24	NA	80	0	80	13 14	Same as above Same as above	SM	100	0

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: SB-13/ MW-8	Permit Number:		FDEP Facility Identification Number:
Site Name: Building 38 NAS Pensacola, FL	Borehole Start Date: 10/1/2008 End Date: 10/1/2008	Borehole Start Time: 10:30 ☐ AM ☐ PM End Time: 11:15 ☐ AM ☐ PM	
Environmental Contractor: Aerostar Environmental Services	Geologist's Name:		Environmental Technician's Name: Adam Davis
Drilling Company: Singley Construction	Pavement Thickness (inches): Not Applicable	Borehole Diameter (inches): 4"	Borehole Depth (feet): 14'
Drilling Method(s): Hollow Stem Auger	Apparent Borehole DTW (in feet from soil moisture content): 6.0'	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA HA	0-2	24	NA	0	0	0	1 2	4" of concrete; moist, tan, medium grained, sand Moist, tan, medium grained, sand	SM	10	0
HA HA	2-4	24	NA	0	0	0	3 4	Same as above Moist to wet, tan, medium grained, sand;	SM	50	0
DP DP	4-6	24	NA	0	0	0	5 6	slight petroleum odor Saturated, tan, fine grained, sand; strong petroleum odor	SM	75	SB-13 (4-5') 0
DP DP	6-8	24	NA	0	0	0	7 8	Same as above Same as above	SM	100	0
DP DP	8-10	24	NA	0	0	0	9 10	Saturated, white, fine grained, sand Same as above	SM	100	0
DP DP	10-12	24	NA	0	0	0	11 12	Same as above Same as above	SM	100	0
DP DP	12-14	24	NA	0	0	0	13 14	Same as above Same as above	SM	100	0

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

APPENDIX B

Soil Analytical Report
And
Chain-of-Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

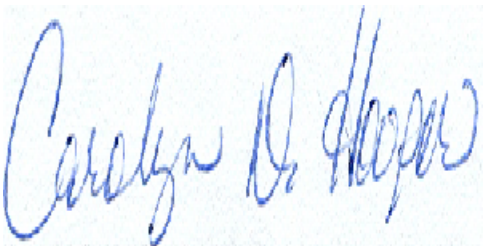
ANALYTICAL REPORT

Job Number: 400-27264-1

Job Description: NAS Pensacola - Bldg. 38 - Pensacola, FL

For:
Aerostar Environmental Services, Inc.
4640 S. Carrolltan Avenue
New Orleans, LA 70119

Attention: Emilie Wien



Carolyn Hooper
Project Manager I
carolyn.hooper@testamericainc.com
12/19/2007

cc: Ms. Dawn Hudson
Mr. Danny Miller
Mr. Carl D Williams

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SAMPLE SUMMARY

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-27264-1	SB - 1	Solid	12/17/2007 1040	12/17/2007 1530
400-27264-2	SB - 2	Solid	12/17/2007 1110	12/17/2007 1530
400-27264-3	SB - 3	Solid	12/17/2007 1130	12/17/2007 1530
400-27264-4	SB - 4	Solid	12/17/2007 1150	12/17/2007 1530
400-27264-5	SB - 5A	Solid	12/17/2007 1210	12/17/2007 1530
400-27264-6	SB - 5B	Solid	12/17/2007 1215	12/17/2007 1530
400-27264-7	SB - 6	Solid	12/17/2007 1310	12/17/2007 1530
400-27264-8	SB - 7	Solid	12/17/2007 1410	12/17/2007 1530
400-27264-9	SB - 8	Solid	12/17/2007 1340	12/17/2007 1530
400-27264-10	SB - 9	Solid	12/17/2007 1420	12/17/2007 1530
400-27264-11	SB - 10	Solid	12/17/2007 1430	12/17/2007 1530

EXECUTIVE SUMMARY - Detections

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
400-27264-1	**SB - 1**					
Percent Solids		95		0.10	Percent	PercentMoisture
400-27264-2	**SB - 2**					
Percent Solids		91		0.10	Percent	PercentMoisture
400-27264-3	**SB - 3**					
Benzo[a]pyrene		0.012	I	0.023	mg/Kg	8310
Benzo[b]fluoranthene		0.012	I	0.023	mg/Kg	8310
Benzo[g,h,i]perylene		0.012	I	0.23	mg/Kg	8310
Total Petroleum Hydrocarbons (C8-C40)		21	I	23	mg/Kg	FL-PRO
Percent Solids		86		0.10	Percent	PercentMoisture
400-27264-4	**SB - 4**					
Percent Solids		84		0.10	Percent	PercentMoisture
400-27264-5	**SB - 5A**					
Acenaphthylene		0.38		0.21	mg/Kg	8310
Anthracene		0.079		0.021	mg/Kg	8310
Benzo[a]anthracene		0.45		0.021	mg/Kg	8310
Benzo[a]pyrene		0.65		0.021	mg/Kg	8310
Benzo[b]fluoranthene		0.85		0.021	mg/Kg	8310
Benzo[g,h,i]perylene		0.70		0.21	mg/Kg	8310
Benzo[k]fluoranthene		0.38		0.021	mg/Kg	8310
Chrysene		0.61		0.021	mg/Kg	8310
Dibenz(a,h)anthracene		0.12		0.021	mg/Kg	8310
Fluoranthene		1.2		0.21	mg/Kg	8310
Indeno[1,2,3-cd]pyrene		0.63		0.021	mg/Kg	8310
Naphthalene		0.81		0.21	mg/Kg	8310
Phenanthrene		0.40		0.21	mg/Kg	8310
Pyrene		0.51		0.21	mg/Kg	8310
1-Methylnaphthalene		0.92		0.21	mg/Kg	8310
2-Methylnaphthalene		0.85		0.21	mg/Kg	8310
Total Petroleum Hydrocarbons (C8-C40)		21		20	mg/Kg	FL-PRO
Percent Solids		94		0.10	Percent	PercentMoisture

EXECUTIVE SUMMARY - Detections

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
400-27264-6	**SB - 5B**					
Acenaphthylene		0.75		0.22	mg/Kg	8310
Anthracene		0.15		0.022	mg/Kg	8310
Benzo[a]anthracene		0.34		0.022	mg/Kg	8310
Benzo[a]pyrene		0.26		0.022	mg/Kg	8310
Benzo[b]fluoranthene		0.27		0.022	mg/Kg	8310
Benzo[g,h,i]perylene		0.078	I	0.22	mg/Kg	8310
Benzo[k]fluoranthene		0.039		0.022	mg/Kg	8310
Chrysene		0.46		0.022	mg/Kg	8310
Dibenz(a,h)anthracene		0.11		0.022	mg/Kg	8310
Fluoranthene		1.4		0.22	mg/Kg	8310
Indeno[1,2,3-cd]pyrene		0.054		0.022	mg/Kg	8310
Naphthalene		1.9		0.22	mg/Kg	8310
Phenanthrene		0.63		0.22	mg/Kg	8310
Pyrene		0.43		0.22	mg/Kg	8310
1-Methylnaphthalene		0.73		0.22	mg/Kg	8310
2-Methylnaphthalene		1.3		0.22	mg/Kg	8310
Total Petroleum Hydrocarbons (C8-C40)		9.0	I	22	mg/Kg	FL-PRO
Percent Solids		90		0.10	Percent	PercentMoisture
400-27264-7	**SB - 6**					
Total Petroleum Hydrocarbons (C8-C40)		48		28	mg/Kg	FL-PRO
Percent Solids		89		0.10	Percent	PercentMoisture
400-27264-8	**SB - 7**					
Total Petroleum Hydrocarbons (C8-C40)		12	I	25	mg/Kg	FL-PRO
Percent Solids		85		0.10	Percent	PercentMoisture
400-27264-9	**SB - 8**					
Percent Solids		84		0.10	Percent	PercentMoisture
400-27264-10	**SB - 9**					
Percent Solids		94		0.10	Percent	PercentMoisture
400-27264-11	**SB - 10**					
Percent Solids		97		0.10	Percent	PercentMoisture

SAMPLE RESULTS

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Job Number: 400-27264-1

Client Sample ID: SB - 1
Lab Sample ID: 400-27264-1

Date Sampled: 12/17/2007 1040
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 95

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 1714	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.010	U	mg/Kg	0.010	0.021	1.0
Acenaphthylene	0.010	U	mg/Kg	0.010	0.21	1.0
Anthracene	0.010	U	mg/Kg	0.010	0.021	1.0
Benzo[a]anthracene	0.010	U	mg/Kg	0.010	0.021	1.0
Benzo[a]pyrene	0.010	U	mg/Kg	0.010	0.021	1.0
Benzo[b]fluoranthene	0.010	U	mg/Kg	0.010	0.021	1.0
Benzo[g,h,i]perylene	0.010	U	mg/Kg	0.010	0.21	1.0
Benzo[k]fluoranthene	0.010	U	mg/Kg	0.010	0.021	1.0
Chrysene	0.010	U	mg/Kg	0.010	0.021	1.0
Dibenz(a,h)anthracene	0.010	U	mg/Kg	0.010	0.021	1.0
Fluoranthene	0.010	U	mg/Kg	0.010	0.21	1.0
Fluorene	0.010	U	mg/Kg	0.010	0.21	1.0
Indeno[1,2,3-cd]pyrene	0.010	U	mg/Kg	0.010	0.021	1.0
Naphthalene	0.010	U	mg/Kg	0.010	0.21	1.0
Phenanthrene	0.010	U	mg/Kg	0.010	0.21	1.0
Pyrene	0.010	U	mg/Kg	0.010	0.21	1.0
1-Methylnaphthalene	0.010	U	mg/Kg	0.010	0.21	1.0
2-Methylnaphthalene	0.010	U	mg/Kg	0.010	0.21	1.0
Surrogate					Acceptance Limits	
2-Chloroanthracene	69		%		48 - 181	
Method: FL-PRO			Date Analyzed:		12/18/2007 0812	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	7.8	U	mg/Kg	7.8	20	1.0
Surrogate					Acceptance Limits	
n-C39	39		%		37 - 138	
o-Terphenyl	76		%		50 - 121	

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Job Number: 400-27264-1

Client Sample ID: SB - 2
Lab Sample ID: 400-27264-2

Date Sampled: 12/17/2007 1110
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 91

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 1748	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.011	U	mg/Kg	0.011	0.022	1.0
Acenaphthylene	0.011	U	mg/Kg	0.011	0.22	1.0
Anthracene	0.011	U	mg/Kg	0.011	0.022	1.0
Benzo[a]anthracene	0.011	U	mg/Kg	0.011	0.022	1.0
Benzo[a]pyrene	0.011	U	mg/Kg	0.011	0.022	1.0
Benzo[b]fluoranthene	0.011	U	mg/Kg	0.011	0.022	1.0
Benzo[g,h,i]perylene	0.011	U	mg/Kg	0.011	0.22	1.0
Benzo[k]fluoranthene	0.011	U	mg/Kg	0.011	0.022	1.0
Chrysene	0.011	U	mg/Kg	0.011	0.022	1.0
Dibenz(a,h)anthracene	0.011	U	mg/Kg	0.011	0.022	1.0
Fluoranthene	0.011	U	mg/Kg	0.011	0.22	1.0
Fluorene	0.011	U	mg/Kg	0.011	0.22	1.0
Indeno[1,2,3-cd]pyrene	0.011	U	mg/Kg	0.011	0.022	1.0
Naphthalene	0.011	U	mg/Kg	0.011	0.22	1.0
Phenanthrene	0.011	U	mg/Kg	0.011	0.22	1.0
Pyrene	0.011	U	mg/Kg	0.011	0.22	1.0
1-Methylnaphthalene	0.011	U	mg/Kg	0.011	0.22	1.0
2-Methylnaphthalene	0.011	U	mg/Kg	0.011	0.22	1.0
Surrogate					Acceptance Limits	
2-Chloroanthracene	70		%		48 - 181	
Method: FL-PRO			Date Analyzed:		12/18/2007 0817	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	8.2	U	mg/Kg	8.2	20	1.0
Surrogate					Acceptance Limits	
n-C39	45		%		37 - 138	
o-Terphenyl	82		%		50 - 121	

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Job Number: 400-27264-1

Client Sample ID: SB - 3
Lab Sample ID: 400-27264-3

Date Sampled: 12/17/2007 1130
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 86

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 1821	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.011	U	mg/Kg	0.011	0.023	1.0
Acenaphthylene	0.011	U	mg/Kg	0.011	0.23	1.0
Anthracene	0.011	U	mg/Kg	0.011	0.023	1.0
Benzo[a]anthracene	0.011	U	mg/Kg	0.011	0.023	1.0
Benzo[a]pyrene	0.012	I	mg/Kg	0.011	0.023	1.0
Benzo[b]fluoranthene	0.012	I	mg/Kg	0.011	0.023	1.0
Benzo[g,h,i]perylene	0.012	I	mg/Kg	0.011	0.23	1.0
Benzo[k]fluoranthene	0.011	U	mg/Kg	0.011	0.023	1.0
Chrysene	0.011	U	mg/Kg	0.011	0.023	1.0
Dibenz(a,h)anthracene	0.011	U	mg/Kg	0.011	0.023	1.0
Fluoranthene	0.011	U	mg/Kg	0.011	0.23	1.0
Fluorene	0.011	U	mg/Kg	0.011	0.23	1.0
Indeno[1,2,3-cd]pyrene	0.011	U	mg/Kg	0.011	0.023	1.0
Naphthalene	0.011	U	mg/Kg	0.011	0.23	1.0
Phenanthrene	0.011	U	mg/Kg	0.011	0.23	1.0
Pyrene	0.011	U	mg/Kg	0.011	0.23	1.0
1-Methylnaphthalene	0.011	U	mg/Kg	0.011	0.23	1.0
2-Methylnaphthalene	0.011	U	mg/Kg	0.011	0.23	1.0
Surrogate					Acceptance Limits	
2-Chloroanthracene	90		%		48 - 181	
Method: FL-PRO			Date Analyzed:		12/18/2007 0822	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	21	I	mg/Kg	9.2	23	1.0
Surrogate					Acceptance Limits	
n-C39	46		%		37 - 138	
o-Terphenyl	84		%		50 - 121	

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Job Number: 400-27264-1

Client Sample ID: SB - 4
Lab Sample ID: 400-27264-4

Date Sampled: 12/17/2007 1150
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 84

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 1855	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.012	U	mg/Kg	0.012	0.024	1.0
Acenaphthylene	0.012	U	mg/Kg	0.012	0.24	1.0
Anthracene	0.012	U	mg/Kg	0.012	0.024	1.0
Benzo[a]anthracene	0.012	U	mg/Kg	0.012	0.024	1.0
Benzo[a]pyrene	0.012	U	mg/Kg	0.012	0.024	1.0
Benzo[b]fluoranthene	0.012	U	mg/Kg	0.012	0.024	1.0
Benzo[g,h,i]perylene	0.012	U	mg/Kg	0.012	0.24	1.0
Benzo[k]fluoranthene	0.012	U	mg/Kg	0.012	0.024	1.0
Chrysene	0.012	U	mg/Kg	0.012	0.024	1.0
Dibenz(a,h)anthracene	0.012	U	mg/Kg	0.012	0.024	1.0
Fluoranthene	0.012	U	mg/Kg	0.012	0.24	1.0
Fluorene	0.012	U	mg/Kg	0.012	0.24	1.0
Indeno[1,2,3-cd]pyrene	0.012	U	mg/Kg	0.012	0.024	1.0
Naphthalene	0.012	U	mg/Kg	0.012	0.24	1.0
Phenanthrene	0.012	U	mg/Kg	0.012	0.24	1.0
Pyrene	0.012	U	mg/Kg	0.012	0.24	1.0
1-Methylnaphthalene	0.012	U	mg/Kg	0.012	0.24	1.0
2-Methylnaphthalene	0.012	U	mg/Kg	0.012	0.24	1.0
Surrogate					Acceptance Limits	
2-Chloroanthracene	77		%		48 - 181	
Method: FL-PRO			Date Analyzed:		12/18/2007 0827	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	11	U	mg/Kg	11	27	1.0
Surrogate					Acceptance Limits	
n-C39	48		%		37 - 138	
o-Terphenyl	89		%		50 - 121	

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Job Number: 400-27264-1

Client Sample ID: SB - 5A
Lab Sample ID: 400-27264-5

Date Sampled: 12/17/2007 1210
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 94

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 1929	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.011	U	mg/Kg	0.011	0.021	1.0
Acenaphthylene	0.38		mg/Kg	0.011	0.21	1.0
Anthracene	0.079		mg/Kg	0.011	0.021	1.0
Benzo[a]anthracene	0.45		mg/Kg	0.011	0.021	1.0
Benzo[a]pyrene	0.65		mg/Kg	0.011	0.021	1.0
Benzo[b]fluoranthene	0.85		mg/Kg	0.011	0.021	1.0
Benzo[g,h,i]perylene	0.70		mg/Kg	0.011	0.21	1.0
Benzo[k]fluoranthene	0.38		mg/Kg	0.011	0.021	1.0
Chrysene	0.61		mg/Kg	0.011	0.021	1.0
Dibenz(a,h)anthracene	0.12		mg/Kg	0.011	0.021	1.0
Fluoranthene	1.2		mg/Kg	0.011	0.21	1.0
Fluorene	0.011	U	mg/Kg	0.011	0.21	1.0
Indeno[1,2,3-cd]pyrene	0.63		mg/Kg	0.011	0.021	1.0
Naphthalene	0.81		mg/Kg	0.011	0.21	1.0
Phenanthrene	0.40		mg/Kg	0.011	0.21	1.0
Pyrene	0.51		mg/Kg	0.011	0.21	1.0
1-Methylnaphthalene	0.92		mg/Kg	0.011	0.21	1.0
2-Methylnaphthalene	0.85		mg/Kg	0.011	0.21	1.0
Surrogate					Acceptance Limits	
2-Chloroanthracene	172		%		48 - 181	
Method: FL-PRO			Date Analyzed:		12/18/2007 0831	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	21		mg/Kg	7.9	20	1.0
Surrogate					Acceptance Limits	
n-C39	52		%		37 - 138	
o-Terphenyl	93		%		50 - 121	

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Job Number: 400-27264-1

Client Sample ID: SB - 5B
Lab Sample ID: 400-27264-6

Date Sampled: 12/17/2007 1215
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 91

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 2002	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.011	U	mg/Kg	0.011	0.022	1.0
Acenaphthylene	0.75		mg/Kg	0.011	0.22	1.0
Anthracene	0.15		mg/Kg	0.011	0.022	1.0
Benzo[a]anthracene	0.34		mg/Kg	0.011	0.022	1.0
Benzo[a]pyrene	0.26		mg/Kg	0.011	0.022	1.0
Benzo[b]fluoranthene	0.27		mg/Kg	0.011	0.022	1.0
Benzo[g,h,i]perylene	0.078	I	mg/Kg	0.011	0.22	1.0
Benzo[k]fluoranthene	0.039		mg/Kg	0.011	0.022	1.0
Chrysene	0.46		mg/Kg	0.011	0.022	1.0
Dibenz(a,h)anthracene	0.11		mg/Kg	0.011	0.022	1.0
Fluoranthene	1.4		mg/Kg	0.011	0.22	1.0
Fluorene	0.011	U	mg/Kg	0.011	0.22	1.0
Indeno[1,2,3-cd]pyrene	0.054		mg/Kg	0.011	0.022	1.0
Naphthalene	1.9		mg/Kg	0.011	0.22	1.0
Phenanthrene	0.63		mg/Kg	0.011	0.22	1.0
Pyrene	0.43		mg/Kg	0.011	0.22	1.0
1-Methylnaphthalene	0.73		mg/Kg	0.011	0.22	1.0
2-Methylnaphthalene	1.3		mg/Kg	0.011	0.22	1.0
Surrogate					Acceptance Limits	
2-Chloroanthracene	144		%		48 - 181	
Method: FL-PRO			Date Analyzed:		12/18/2007 0836	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	9.0	I	mg/Kg	8.7	22	1.0
Surrogate					Acceptance Limits	
n-C39	53		%		37 - 138	
o-Terphenyl	87		%		50 - 121	

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Job Number: 400-27264-1

Client Sample ID: SB - 6
Lab Sample ID: 400-27264-7

Date Sampled: 12/17/2007 1310
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 89

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 2110	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.011	U	mg/Kg	0.011	0.022	1.0
Acenaphthylene	0.011	U	mg/Kg	0.011	0.22	1.0
Anthracene	0.011	U	mg/Kg	0.011	0.022	1.0
Benzo[a]anthracene	0.011	U	mg/Kg	0.011	0.022	1.0
Benzo[a]pyrene	0.011	U	mg/Kg	0.011	0.022	1.0
Benzo[b]fluoranthene	0.011	U	mg/Kg	0.011	0.022	1.0
Benzo[g,h,i]perylene	0.011	U	mg/Kg	0.011	0.22	1.0
Benzo[k]fluoranthene	0.011	U	mg/Kg	0.011	0.022	1.0
Chrysene	0.011	U	mg/Kg	0.011	0.022	1.0
Dibenz(a,h)anthracene	0.011	U	mg/Kg	0.011	0.022	1.0
Fluoranthene	0.011	U	mg/Kg	0.011	0.22	1.0
Fluorene	0.011	U	mg/Kg	0.011	0.22	1.0
Indeno[1,2,3-cd]pyrene	0.011	U	mg/Kg	0.011	0.022	1.0
Naphthalene	0.011	U	mg/Kg	0.011	0.22	1.0
Phenanthrene	0.011	U	mg/Kg	0.011	0.22	1.0
Pyrene	0.011	U	mg/Kg	0.011	0.22	1.0
1-Methylnaphthalene	0.011	U	mg/Kg	0.011	0.22	1.0
2-Methylnaphthalene	0.011	U	mg/Kg	0.011	0.22	1.0
Surrogate					Acceptance Limits	
2-Chloroanthracene	90		%		48 - 181	
Method: FL-PRO			Date Analyzed:		12/18/2007 0845	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	48		mg/Kg	11	28	1.0
Surrogate					Acceptance Limits	
n-C39	49		%		37 - 138	
o-Terphenyl	100		%		50 - 121	

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Job Number: 400-27264-1

Client Sample ID: SB - 7
Lab Sample ID: 400-27264-8

Date Sampled: 12/17/2007 1410
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 85

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 2143	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.012	U	mg/Kg	0.012	0.023	1.0
Acenaphthylene	0.012	U	mg/Kg	0.012	0.23	1.0
Anthracene	0.012	U	mg/Kg	0.012	0.023	1.0
Benzo[a]anthracene	0.012	U	mg/Kg	0.012	0.023	1.0
Benzo[a]pyrene	0.012	U	mg/Kg	0.012	0.023	1.0
Benzo[b]fluoranthene	0.012	U	mg/Kg	0.012	0.023	1.0
Benzo[g,h,i]perylene	0.012	U	mg/Kg	0.012	0.23	1.0
Benzo[k]fluoranthene	0.012	U	mg/Kg	0.012	0.023	1.0
Chrysene	0.012	U	mg/Kg	0.012	0.023	1.0
Dibenz(a,h)anthracene	0.012	U	mg/Kg	0.012	0.023	1.0
Fluoranthene	0.012	U	mg/Kg	0.012	0.23	1.0
Fluorene	0.012	U	mg/Kg	0.012	0.23	1.0
Indeno[1,2,3-cd]pyrene	0.012	U	mg/Kg	0.012	0.023	1.0
Naphthalene	0.012	U	mg/Kg	0.012	0.23	1.0
Phenanthrene	0.012	U	mg/Kg	0.012	0.23	1.0
Pyrene	0.012	U	mg/Kg	0.012	0.23	1.0
1-Methylnaphthalene	0.012	U	mg/Kg	0.012	0.23	1.0
2-Methylnaphthalene	0.012	U	mg/Kg	0.012	0.23	1.0
Surrogate					Acceptance Limits	
2-Chloroanthracene	77		%		48 - 181	
Method: FL-PRO			Date Analyzed:		12/18/2007 0850	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	12	I	mg/Kg	9.9	25	1.0
Surrogate					Acceptance Limits	
n-C39	40		%		37 - 138	
o-Terphenyl	77		%		50 - 121	

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Job Number: 400-27264-1

Client Sample ID: SB - 8
Lab Sample ID: 400-27264-9

Date Sampled: 12/17/2007 1340
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 84

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 2217	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.012	U	mg/Kg	0.012	0.024	1.0
Acenaphthylene	0.012	U	mg/Kg	0.012	0.24	1.0
Anthracene	0.012	U	mg/Kg	0.012	0.024	1.0
Benzo[a]anthracene	0.012	U	mg/Kg	0.012	0.024	1.0
Benzo[a]pyrene	0.012	U	mg/Kg	0.012	0.024	1.0
Benzo[b]fluoranthene	0.012	U	mg/Kg	0.012	0.024	1.0
Benzo[g,h,i]perylene	0.012	U	mg/Kg	0.012	0.24	1.0
Benzo[k]fluoranthene	0.012	U	mg/Kg	0.012	0.024	1.0
Chrysene	0.012	U	mg/Kg	0.012	0.024	1.0
Dibenz(a,h)anthracene	0.012	U	mg/Kg	0.012	0.024	1.0
Fluoranthene	0.012	U	mg/Kg	0.012	0.24	1.0
Fluorene	0.012	U	mg/Kg	0.012	0.24	1.0
Indeno[1,2,3-cd]pyrene	0.012	U	mg/Kg	0.012	0.024	1.0
Naphthalene	0.012	U	mg/Kg	0.012	0.24	1.0
Phenanthrene	0.012	U	mg/Kg	0.012	0.24	1.0
Pyrene	0.012	U	mg/Kg	0.012	0.24	1.0
1-Methylnaphthalene	0.012	U	mg/Kg	0.012	0.24	1.0
2-Methylnaphthalene	0.012	U	mg/Kg	0.012	0.24	1.0
Surrogate					Acceptance Limits	
2-Chloroanthracene	74		%		48 - 181	
Method: FL-PRO			Date Analyzed:		12/18/2007 0855	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	9.6	U	mg/Kg	9.6	24	1.0
Surrogate					Acceptance Limits	
n-C39	47		%		37 - 138	
o-Terphenyl	82		%		50 - 121	

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Job Number: 400-27264-1

Client Sample ID: SB - 9
Lab Sample ID: 400-27264-10

Date Sampled: 12/17/2007 1420
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 94

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 2251	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.010	U	mg/Kg	0.010	0.021	1.0
Acenaphthylene	0.010	U	mg/Kg	0.010	0.21	1.0
Anthracene	0.010	U	mg/Kg	0.010	0.021	1.0
Benzo[a]anthracene	0.010	U	mg/Kg	0.010	0.021	1.0
Benzo[a]pyrene	0.010	U	mg/Kg	0.010	0.021	1.0
Benzo[b]fluoranthene	0.010	U	mg/Kg	0.010	0.021	1.0
Benzo[g,h,i]perylene	0.010	U	mg/Kg	0.010	0.21	1.0
Benzo[k]fluoranthene	0.010	U	mg/Kg	0.010	0.021	1.0
Chrysene	0.010	U	mg/Kg	0.010	0.021	1.0
Dibenz(a,h)anthracene	0.010	U	mg/Kg	0.010	0.021	1.0
Fluoranthene	0.010	U	mg/Kg	0.010	0.21	1.0
Fluorene	0.010	U	mg/Kg	0.010	0.21	1.0
Indeno[1,2,3-cd]pyrene	0.010	U	mg/Kg	0.010	0.021	1.0
Naphthalene	0.010	U	mg/Kg	0.010	0.21	1.0
Phenanthrene	0.010	U	mg/Kg	0.010	0.21	1.0
Pyrene	0.010	U	mg/Kg	0.010	0.21	1.0
1-Methylnaphthalene	0.010	U	mg/Kg	0.010	0.21	1.0
2-Methylnaphthalene	0.010	U	mg/Kg	0.010	0.21	1.0
Surrogate					Acceptance Limits	
2-Chloroanthracene	64		%		48 - 181	
Method: FL-PRO			Date Analyzed:		12/18/2007 0900	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	9.5	U	mg/Kg	9.5	24	1.0
Surrogate					Acceptance Limits	
n-C39	49		%		37 - 138	
o-Terphenyl	90		%		50 - 121	

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Job Number: 400-27264-1

Client Sample ID: SB - 10
Lab Sample ID: 400-27264-11

Date Sampled: 12/17/2007 1430
Date Received: 12/17/2007 1530
Client Matrix: Solid
Percent Solids: 97

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8310			Date Analyzed:		12/18/2007 2324	
Prep Method: 3550B			Date Prepared:		12/17/2007 1633	
Acenaphthene	0.010	U	mg/Kg	0.010	0.020	1.0
Acenaphthylene	0.010	U	mg/Kg	0.010	0.20	1.0
Anthracene	0.010	U	mg/Kg	0.010	0.020	1.0
Benzo[a]anthracene	0.010	U	mg/Kg	0.010	0.020	1.0
Benzo[a]pyrene	0.010	U	mg/Kg	0.010	0.020	1.0
Benzo[b]fluoranthene	0.010	U	mg/Kg	0.010	0.020	1.0
Benzo[g,h,i]perylene	0.010	U	mg/Kg	0.010	0.20	1.0
Benzo[k]fluoranthene	0.010	U	mg/Kg	0.010	0.020	1.0
Chrysene	0.010	U	mg/Kg	0.010	0.020	1.0
Dibenz(a,h)anthracene	0.010	U	mg/Kg	0.010	0.020	1.0
Fluoranthene	0.010	U	mg/Kg	0.010	0.20	1.0
Fluorene	0.010	U	mg/Kg	0.010	0.20	1.0
Indeno[1,2,3-cd]pyrene	0.010	U	mg/Kg	0.010	0.020	1.0
Naphthalene	0.010	U	mg/Kg	0.010	0.20	1.0
Phenanthrene	0.010	U	mg/Kg	0.010	0.20	1.0
Pyrene	0.010	U	mg/Kg	0.010	0.20	1.0
1-Methylnaphthalene	0.010	U	mg/Kg	0.010	0.20	1.0
2-Methylnaphthalene	0.010	U	mg/Kg	0.010	0.20	1.0

Surrogate			Acceptance Limits
2-Chloroanthracene	56	%	48 - 181

Method: FL-PRO			Date Analyzed:		12/18/2007 0904	
Prep Method: 3550B			Date Prepared:		12/17/2007 1631	
Total Petroleum Hydrocarbons (C8-C40)	11	U	mg/Kg	11	28	1.0

Surrogate			Acceptance Limits
n-C39	41	%	37 - 138
o-Terphenyl	79	%	50 - 121

DATA REPORTING QUALIFIERS

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Lab Section	Qualifier	Description
HPLC		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC Semi VOA		
	J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

METHOD SUMMARY

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Polynuclear Aromatic Hydrocarbons	TAL PEN	SW846 8310	
Ultrasonic Extraction	TAL PEN		SW846 3550B
Florida Method for Determination of Petroleum Range Organics by GC/FID	TAL PEN	FL-DEP FL-PRO	
Ultrasonic Extraction	TAL PEN		SW846 3550B

Lab References:

TAL PEN = TestAmerica Pensacola

Method References:

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Method	Analyst	Analyst ID
SW846 8310	Chea, Vando	VC
FL-DEP FL-PRO	Ayers, Kim	KA
EPA PercentMoisture	Hor, Koma	KH

QUALITY CONTROL RESULTS

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC					
Prep Batch: 400-61073					
LCS 400-61073/2-A	Lab Control Spike	T	Solid	3550B	
MB 400-61073/1-A	Method Blank	T	Solid	3550B	
400-27264-1	SB - 1	T	Solid	3550B	
400-27264-2	SB - 2	T	Solid	3550B	
400-27264-2MS	Matrix Spike	T	Solid	3550B	
400-27264-2MSD	Matrix Spike Duplicate	T	Solid	3550B	
400-27264-3	SB - 3	T	Solid	3550B	
400-27264-4	SB - 4	T	Solid	3550B	
400-27264-5	SB - 5A	T	Solid	3550B	
400-27264-6	SB - 5B	T	Solid	3550B	
400-27264-7	SB - 6	T	Solid	3550B	
400-27264-8	SB - 7	T	Solid	3550B	
400-27264-9	SB - 8	T	Solid	3550B	
400-27264-10	SB - 9	T	Solid	3550B	
400-27264-11	SB - 10	T	Solid	3550B	
Analysis Batch:400-61216					
LCS 400-61073/2-A	Lab Control Spike	T	Solid	8310	400-61073
MB 400-61073/1-A	Method Blank	T	Solid	8310	400-61073
400-27264-1	SB - 1	T	Solid	8310	400-61073
400-27264-2	SB - 2	T	Solid	8310	400-61073
400-27264-2MS	Matrix Spike	T	Solid	8310	400-61073
400-27264-2MSD	Matrix Spike Duplicate	T	Solid	8310	400-61073
400-27264-3	SB - 3	T	Solid	8310	400-61073
400-27264-4	SB - 4	T	Solid	8310	400-61073
400-27264-5	SB - 5A	T	Solid	8310	400-61073
400-27264-6	SB - 5B	T	Solid	8310	400-61073
400-27264-7	SB - 6	T	Solid	8310	400-61073
400-27264-8	SB - 7	T	Solid	8310	400-61073
400-27264-9	SB - 8	T	Solid	8310	400-61073
400-27264-10	SB - 9	T	Solid	8310	400-61073
400-27264-11	SB - 10	T	Solid	8310	400-61073

Report Basis
T = Total

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 400-61072					
LCS 400-61072/2-A	Lab Control Spike	T	Solid	3550B	
MB 400-61072/1-A	Method Blank	T	Solid	3550B	
400-27264-1	SB - 1	T	Solid	3550B	
400-27264-1MS	Matrix Spike	T	Solid	3550B	
400-27264-1MSD	Matrix Spike Duplicate	T	Solid	3550B	
400-27264-2	SB - 2	T	Solid	3550B	
400-27264-3	SB - 3	T	Solid	3550B	
400-27264-4	SB - 4	T	Solid	3550B	
400-27264-5	SB - 5A	T	Solid	3550B	
400-27264-6	SB - 5B	T	Solid	3550B	
400-27264-7	SB - 6	T	Solid	3550B	
400-27264-8	SB - 7	T	Solid	3550B	
400-27264-9	SB - 8	T	Solid	3550B	
400-27264-10	SB - 9	T	Solid	3550B	
400-27264-11	SB - 10	T	Solid	3550B	
Analysis Batch:400-61099					
LCS 400-61072/2-A	Lab Control Spike	T	Solid	FL-PRO	400-61072
MB 400-61072/1-A	Method Blank	T	Solid	FL-PRO	400-61072
400-27264-1	SB - 1	T	Solid	FL-PRO	400-61072
400-27264-1MS	Matrix Spike	T	Solid	FL-PRO	400-61072
400-27264-1MSD	Matrix Spike Duplicate	T	Solid	FL-PRO	400-61072
400-27264-2	SB - 2	T	Solid	FL-PRO	400-61072
400-27264-3	SB - 3	T	Solid	FL-PRO	400-61072
400-27264-4	SB - 4	T	Solid	FL-PRO	400-61072
400-27264-5	SB - 5A	T	Solid	FL-PRO	400-61072
400-27264-6	SB - 5B	T	Solid	FL-PRO	400-61072
400-27264-7	SB - 6	T	Solid	FL-PRO	400-61072
400-27264-8	SB - 7	T	Solid	FL-PRO	400-61072
400-27264-9	SB - 8	T	Solid	FL-PRO	400-61072
400-27264-10	SB - 9	T	Solid	FL-PRO	400-61072
400-27264-11	SB - 10	T	Solid	FL-PRO	400-61072

Report Basis
T = Total

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:400-61131					
400-27264-1	SB - 1	T	Solid	PercentMoisture	
400-27264-2	SB - 2	T	Solid	PercentMoisture	
400-27264-3	SB - 3	T	Solid	PercentMoisture	
400-27264-4	SB - 4	T	Solid	PercentMoisture	
400-27264-5	SB - 5A	T	Solid	PercentMoisture	
400-27264-6	SB - 5B	T	Solid	PercentMoisture	
400-27264-7	SB - 6	T	Solid	PercentMoisture	
400-27264-8	SB - 7	T	Solid	PercentMoisture	
400-27264-9	SB - 8	T	Solid	PercentMoisture	
400-27264-10	SB - 9	T	Solid	PercentMoisture	
400-27264-11	SB - 10	T	Solid	PercentMoisture	

Report Basis
T = Total

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Surrogate Recovery Report

8310 Polynuclear Aromatic Hydrocarbons

Client Matrix: Solid

Lab Sample ID	Client Sample ID	2CA1 %Rec
400-27264-1	SB - 1	69
400-27264-2	SB - 2	70
400-27264-3	SB - 3	90
400-27264-4	SB - 4	77
400-27264-5	SB - 5A	172
400-27264-6	SB - 5B	144
400-27264-7	SB - 6	90
400-27264-8	SB - 7	77
400-27264-9	SB - 8	74
400-27264-10	SB - 9	64
400-27264-11	SB - 10	56
MB 400-61073/1-A		90
LCS 400-61073/2-A		93
400-27264-2 MS	SB - 2 MS	89
400-27264-2 MSD	SB - 2 MSD	82

Surrogate	Acceptance Limits
2CA = 2-Chloroanthracene	48-181

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Surrogate Recovery Report

FL-PRO Florida Method for Determination of Petroleum Range Organics by GC/FID

Client Matrix: Solid

Lab Sample ID	Client Sample ID	C39 %Rec	OTPH %Rec
400-27264-1	SB - 1	39	76
400-27264-2	SB - 2	45	82
400-27264-3	SB - 3	46	84
400-27264-4	SB - 4	48	89
400-27264-5	SB - 5A	52	93
400-27264-6	SB - 5B	53	87
400-27264-7	SB - 6	49	100
400-27264-8	SB - 7	40	77
400-27264-9	SB - 8	47	82
400-27264-10	SB - 9	49	90
400-27264-11	SB - 10	41	79
MB 400-61072/1-A		48	93
LCS 400-61072/2-A		42	84
400-27264-1 MS	SB - 1 MS	32J1	80
400-27264-1 MSD	SB - 1 MSD	34J1	93

Surrogate	Acceptance Limits
C39 = n-C39	37-138
OTPH = o-Terphenyl	50-121

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Method Blank - Batch: 400-61073

Method: 8310
Preparation: 3550B

Lab Sample ID: MB 400-61073/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/18/2007 1459
Date Prepared: 12/17/2007 1633

Analysis Batch: 400-61216
Prep Batch: 400-61073
Units: mg/Kg

Instrument ID: HPLC/UV/FLUOR
Lab File ID: 003-0301.D
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
Acenaphthene	0.010	U	0.010	0.020
Acenaphthylene	0.010	U	0.010	0.20
Anthracene	0.010	U	0.010	0.020
Benzo[a]anthracene	0.010	U	0.010	0.020
Benzo[a]pyrene	0.010	U	0.010	0.020
Benzo[b]fluoranthene	0.010	U	0.010	0.020
Benzo[g,h,i]perylene	0.010	U	0.010	0.20
Benzo[k]fluoranthene	0.010	U	0.010	0.020
Chrysene	0.010	U	0.010	0.020
Dibenz(a,h)anthracene	0.010	U	0.010	0.020
Fluoranthene	0.010	U	0.010	0.20
Fluorene	0.010	U	0.010	0.20
Indeno[1,2,3-cd]pyrene	0.010	U	0.010	0.020
Naphthalene	0.010	U	0.010	0.20
Phenanthrene	0.010	U	0.010	0.20
Pyrene	0.010	U	0.010	0.20
1-Methylnaphthalene	0.010	U	0.010	0.20
2-Methylnaphthalene	0.010	U	0.010	0.20

Surrogate	% Rec	Acceptance Limits
2-Chloroanthracene	90	48 - 181

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Lab Control Spike - Batch: 400-61073

Method: 8310
Preparation: 3550B

Lab Sample ID: LCS 400-61073/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/18/2007 1533
Date Prepared: 12/17/2007 1633

Analysis Batch: 400-61216
Prep Batch: 400-61073
Units: mg/Kg

Instrument ID: HPLC/UV/FLUOR
Lab File ID: 004-0401.D
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	0.333	0.315	94	44 - 106	
Acenaphthylene	0.333	0.260	78	55 - 96	
Anthracene	0.333	0.309	93	56 - 114	
Benzo[a]anthracene	0.333	0.320	96	76 - 124	
Benzo[a]pyrene	0.333	0.327	98	69 - 130	
Benzo[b]fluoranthene	0.333	0.308	92	70 - 116	
Benzo[g,h,i]perylene	0.333	0.319	96	73 - 132	
Benzo[k]fluoranthene	0.333	0.312	94	69 - 116	
Chrysene	0.333	0.342	103	74 - 117	
Dibenz(a,h)anthracene	0.333	0.313	94	76 - 123	
Fluoranthene	0.333	0.311	93	59 - 136	
Fluorene	0.333	0.307	92	55 - 104	
Indeno[1,2,3-cd]pyrene	0.333	0.319	96	78 - 124	
Naphthalene	0.333	0.266	80	27 - 133	
Phenanthrene	0.333	0.307	92	59 - 109	
Pyrene	0.333	0.315	94	67 - 124	
1-Methylnaphthalene	0.333	0.287	86	42 - 97	
2-Methylnaphthalene	0.333	0.274	82	47 - 96	

Surrogate	% Rec	Acceptance Limits
2-Chloroanthracene	93	48 - 181

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-61073

Method: 8310
Preparation: 3550B

MS Lab Sample ID:	400-27264-2	Analysis Batch: 400-61216	Instrument ID: HPLC/UV/FLUOR
Client Matrix:	Solid	Prep Batch: 400-61073	Lab File ID: 005-0501.D
Dilution:	1.0		Initial Weight/Volume: 30.14 g
Date Analyzed:	12/18/2007 1606		Final Weight/Volume: 1.0 mL
Date Prepared:	12/17/2007 1633		Injection Volume:
			Column ID: PRIMARY
MSD Lab Sample ID:	400-27264-2	Analysis Batch: 400-61216	Instrument ID: HPLC/UV/FLUOR
Client Matrix:	Solid	Prep Batch: 400-61073	Lab File ID: 006-0601.D
Dilution:	1.0		Initial Weight/Volume: 30.16 g
Date Analyzed:	12/18/2007 1640		Final Weight/Volume: 1.0 mL
Date Prepared:	12/17/2007 1633		Injection Volume:
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Acenaphthene	81	88	13 - 112	9	65	
Acenaphthylene	81	73	24 - 113	11	66	
Anthracene	86	78	22 - 115	9	55	
Benzo[a]anthracene	91	85	36 - 131	6	44	
Benzo[a]pyrene	90	83	33 - 138	8	48	
Benzo[b]fluoranthene	88	83	33 - 128	6	40	
Benzo[g,h,i]perylene	89	84	39 - 132	6	34	
Benzo[k]fluoranthene	89	83	35 - 120	6	63	
Chrysene	100	92	36 - 123	8	46	
Dibenz(a,h)anthracene	89	84	46 - 120	6	35	
Fluoranthene	91	86	16 - 156	6	60	
Fluorene	86	80	6 - 130	8	57	
Indeno[1,2,3-cd]pyrene	90	85	53 - 112	6	43	
Naphthalene	87	85	12 - 124	3	48	
Phenanthrene	89	83	16 - 125	7	60	
Pyrene	90	85	32 - 126	6	51	
1-Methylnaphthalene	85	78	20 - 95	9	59	
2-Methylnaphthalene	81	77	25 - 90	5	57	

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Chloroanthracene	89	82	48 - 181

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Method Blank - Batch: 400-61072

Method: FL-PRO
Preparation: 3550B

Lab Sample ID: MB 400-61072/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/18/2007 0754
Date Prepared: 12/17/2007 1631

Analysis Batch: 400-61099
Prep Batch: 400-61072
Units: mg/Kg

Instrument ID: GC/FID/FID
Lab File ID: 0701007.D
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.5 mL
Injection Volume:

Analyte	Result	Qual	MDL	PQL
Total Petroleum Hydrocarbons (C8-C40)	7.5	U	7.5	19

Surrogate	% Rec	Acceptance Limits
n-C39	48	37 - 138
o-Terphenyl	93	50 - 121

Lab Control Spike - Batch: 400-61072

Method: FL-PRO
Preparation: 3550B

Lab Sample ID: LCS 400-61072/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/18/2007 0758
Date Prepared: 12/17/2007 1631

Analysis Batch: 400-61099
Prep Batch: 400-61072
Units: mg/Kg

Instrument ID: GC/FID/FID
Lab File ID: 0801008.D
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.9 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Petroleum Hydrocarbons (C8-C40)	113	84.2	74	50 - 124	

Surrogate	% Rec	Acceptance Limits
n-C39	42	37 - 138
o-Terphenyl	84	50 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-61072

Method: FL-PRO
Preparation: 3550B

MS Lab Sample ID:	400-27264-1	Analysis Batch: 400-61099	Instrument ID: GC/FID/FID
Client Matrix:	Solid	Prep Batch: 400-61072	Lab File ID: 0901009.D
Dilution:	1.0		Initial Weight/Volume: 30.05 g
Date Analyzed:	12/18/2007 0803		Final Weight/Volume: 1.5 mL
Date Prepared:	12/17/2007 1631		Injection Volume:

MSD Lab Sample ID:	400-27264-1	Analysis Batch: 400-61099	Instrument ID: GC/FID/FID
Client Matrix:	Solid	Prep Batch: 400-61072	Lab File ID: 1001010.D
Dilution:	1.0		Initial Weight/Volume: 30.04 g
Date Analyzed:	12/18/2007 0808		Final Weight/Volume: 2.2 mL
Date Prepared:	12/17/2007 1631		Injection Volume:

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Petroleum Hydrocarbons (C8-C40)	69	82	11 - 154	17	50		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
n-C39	32	J1	34	J1	37 - 138
o-Terphenyl	80		93		50 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Chain of Custody Record

Lab Report No.: 400-27264

Company: AEROSTAR	Gulf Coast LabNet, Inc. An Environmental Lab Services Co. Phone: (251) 625-1331 Fax: (251) 625-1299	Modified from DEP Form #: 62-770.900(2)	Page 1 of 2
Address: 4640 S. Carrollton Ave. New Orleans, LA 70119		FDEP Facility No.:	
		Project Name: NAS Pensacola	
		Location: Bldg. #38	
		Project No.:	

Attn: Emilie Wien | Phone: | Fax:

Sampled by [Print Name]/Affiliation: Adam Davis / Aerostar | Sampler Signature: [signature]

Preservative: H, H
Analysis: PAH 8270, FL-PRO

REQUESTED DUE DATE: ASAP! 12/18

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Comp.	Matrix Codes	No. Cont.	PAH 8270 (H)	FL-PRO (H)							Remarks	Lab. No.
	SB-1	12/17/07	1040	G	SO	1	X	X							24 HR. TAT	
	SB-2	|	1110	|	|	1	X	X								
	SB-3	|	1130	|	|	1	X	X								
	SB-4	|	1150	|	|	1	X	X								
	SB-5A	|	1210	|	|	1	X	X								
	SB-5B	|	1215	|	|	1	X	X								
	SB-6	|	1310	|	|	1	X	X								
	SB-7	|	1410	|	|	1	X	X								
	SB-8	|	1340	|	|	1	X	X								

9 ← Total Number of Containers

Shipment Method		
Out: / /	Via:	
Returned: / /	Via:	

Item #	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
	EMPTY CONTAINERS	12/14		~~AEF~~ AES	12/14	
	[signature] / Aerostar	12/17/07	1450	[signature] / GCC	12/17	1450
	[signature]	12/17/07	1530	[signature]	12/17/07	15:30

Additional Comments

RUSH

Due: ______

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
0.0°C	7112	

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

Chain of Custody Record

Lab Report No.: 400-27264

Company: AEROSTAR

Address: 4640 S. CARROLLTAN AVE. NEW ORLEANS, LA 70119

Gulf Coast LabNet, Inc.
An Environmental Lab Services Co.

Phone: (251) 625-1331
Fax: (251) 625-1299

Modified from DEP Form #: 62-770.900(2)

Page 2 of 2

FDEP Facility No.:

Project Name: NAS PENSACOLA

Location: BLDG. #38

Project No.:

Attn: EMICIE WIEN

Phone:

Fax:

Sampled by [Print Name]/Affiliation: Adam Davis Aerostar

Sampler Signature:

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Comp.	Matrix Codes	No. Cont.	PAH 8270 H	FL-PRO H	←Preservative / ←Analysis
	SB-9	12/17/07	1420	G	SO	1	X	X	
	SB-10	〃	1430	G	SO	1	X	X	

REQUESTED DUE DATE: ASAP! 12/18

Remarks	Lab. No.
24 HR. TAT!	

Page 32 of 33

Shipment Method

Out: / / Via:

Returned: / / Via:

Additional Comments

RUSH

2 ←Total Number of Containers

Item #	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
	EMPTY CONTAINERS					
		12/17/07	1450	AES	12/17/07	1820
		12/17/07	1530		12/17/07	15:30

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
0.0°C	712	

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

Login Sample Receipt Check List

Client: Aerostar Environmental Services, Inc. Job Number: 400-27264-1

Login Number: 27264 **List Source: TestAmerica Pensacola**
Creator: Hor, Koma
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 10/10/2008

GCAL Report 208100383

Deliver To	Aerostar 4640 S. Carrollton Ave. Ste B New Orleans, LA 70119
Attn	Emilie Wien

Project NAS PENSACOLA

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810038301	B-11 (3-5)	Solid	10/01/2008 11:40	10/03/2008 16:04
20810038302	B-12 (3-5)	Solid	10/01/2008 15:00	10/03/2008 16:04
20810038303	B-13 (3-5)	Solid	10/02/2008 09:30	10/03/2008 16:04

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810038302	**B-12 (3-5)**	Solid	10/01/2008 15:00	10/03/2008 16:04

Florida PRO

CAS#	Parameter	Result	RDL	MDL	Units
FLPRO-01	Petroleum Hydrocarbons	177	9.26	5.79	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.025I	0.057	0.012	mg/kg
108-88-3	Toluene	0.045I	0.057	0.018	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.157	0.057	0.010	mg/kg

SW-846 8270C

CAS#	Parameter	Result	RDL	MDL	Units
208-96-8	Acenaphthylene	0.033I	0.381	0.011	mg/kg
56-55-3	Benzo(a)anthracene	0.050I	0.381	0.00564	mg/kg
50-32-8	Benzo(a)pyrene	0.118I	0.381	0.027	mg/kg
205-99-2	Benzo(b)fluoranthene	0.118I	0.381	0.026	mg/kg
191-24-2	Benzo(g,h,i)perylene	0.194I	0.381	0.034	mg/kg
218-01-9	Chrysene	0.057I	0.381	0.00976	mg/kg
206-44-0	Fluoranthene	0.111I	0.381	0.00661	mg/kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.317I	0.381	0.058	mg/kg
85-01-8	Phenanthrene	0.028I	0.381	0.00900	mg/kg
129-00-0	Pyrene	0.082I	0.381	0.011	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810038303	**B-13 (3-5)**	Solid	10/02/2008 09:30	10/03/2008 16:04

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
1634-04-4	tert-Butyl methyl ether (MTBE)	0.415	0.147	0.026	mg/kg

Florida PRO

CAS#	Parameter	Result	RDL	MDL	Units
FLPRO-01	Petroleum Hydrocarbons	115	10.3	6.47	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810038301	**B-11 (3-5)**	Solid	10/01/2008 11:40	10/03/2008 16:04

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	10/08/2008 10:28	AGC	398372

CAS#	Parameter	Result	RDL	MDL	Units

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2.54	2.49	mg/kg	98	62 - 127
1868-53-7	Dibromofluoromethane	2.54	2.56	mg/kg	101	65 - 130
2037-26-5	Toluene d8	2.54	2.31	mg/kg	91	71 - 132
17060-07-0	1,2-Dichloroethane-d4	2.54	2.69	mg/kg	106	62 - 125

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/06/2008 09:00	398220	3550B	1	10/08/2008 15:20	KCB	398382

CAS#	Parameter	Result	RDL	MDL	Units

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1.67	1.33	mg/kg	80	46 - 123
321-60-8	2-Fluorobiphenyl	1.67	1.35	mg/kg	81	47 - 127
1718-51-0	Terphenyl-d14	1.67	1.15	mg/kg	69	38 - 167

Florida PRO

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/09/2008 11:00	398508	8015B Modified C8-C40	1	10/09/2008 18:03	TLS	398609

CAS#	Parameter	Result	RDL	MDL	Units

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	4	3.94	mg/kg	99	25 - 132
7194-86-7	Nonatriacontane	24	18	mg/kg	75	25 - 132

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810038302	**B-12 (3-5)**	Solid	10/01/2008 15:00	10/03/2008 16:04

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	10/08/2008 11:05	AGC	398372

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**0.025I**	**0.057**	**0.012**	**mg/kg**
100-41-4	Ethylbenzene	0.020U	0.057	0.020	mg/kg
108-88-3	**Toluene**	**0.045I**	**0.057**	**0.018**	**mg/kg**
1330-20-7	Xylene (total)	0.073U	0.170	0.073	mg/kg
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**0.157**	**0.057**	**0.010**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2.44	2.5	mg/kg	102	62 - 127
1868-53-7	Dibromofluoromethane	2.44	2.35	mg/kg	96	65 - 130
2037-26-5	Toluene d8	2.44	2.32	mg/kg	95	71 - 132
17060-07-0	1,2-Dichloroethane-d4	2.44	2.5	mg/kg	102	62 - 125

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/06/2008 09:00	398220	3550B	1	10/08/2008 15:35	KCB	398382

CAS#	Parameter	Result	RDL	MDL	Units
90-12-0	1-Methylnaphthalene	0.012U	0.381	0.012	mg/kg
91-57-6	2-Methylnaphthalene	0.013U	0.381	0.013	mg/kg
83-32-9	Acenaphthene	0.012U	0.381	0.012	mg/kg
208-96-8	**Acenaphthylene**	**0.033I**	**0.381**	**0.011**	**mg/kg**
120-12-7	Anthracene	0.00489U	0.381	0.00489	mg/kg
56-55-3	**Benzo(a)anthracene**	**0.050I**	**0.381**	**0.00564**	**mg/kg**
50-32-8	**Benzo(a)pyrene**	**0.118I**	**0.381**	**0.027**	**mg/kg**
205-99-2	**Benzo(b)fluoranthene**	**0.118I**	**0.381**	**0.026**	**mg/kg**
191-24-2	**Benzo(g,h,i)perylene**	**0.194I**	**0.381**	**0.034**	**mg/kg**
207-08-9	Benzo(k)fluoranthene	0.071U	0.381	0.071	mg/kg
218-01-9	**Chrysene**	**0.057I**	**0.381**	**0.00976**	**mg/kg**
53-70-3	Dibenz(a,h)anthracene	0.022U	0.381	0.022	mg/kg
206-44-0	**Fluoranthene**	**0.111I**	**0.381**	**0.00661**	**mg/kg**
86-73-7	Fluorene	0.010U	0.381	0.010	mg/kg
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.317I**	**0.381**	**0.058**	**mg/kg**
91-20-3	Naphthalene	0.095U	0.381	0.095	mg/kg
85-01-8	**Phenanthrene**	**0.028I**	**0.381**	**0.00900**	**mg/kg**
129-00-0	**Pyrene**	**0.082I**	**0.381**	**0.011**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1.66	1.45	mg/kg	87	46 - 123
321-60-8	2-Fluorobiphenyl	1.66	1.5	mg/kg	90	47 - 127
1718-51-0	Terphenyl-d14	1.66	1.16	mg/kg	70	38 - 167

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810038302	**B-12 (3-5)**	Solid	10/01/2008 15:00	10/03/2008 16:04

Florida PRO

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/09/2008 11:00	398508	8015B Modified C8-C40	1	10/09/2008 18:33	TLS	398609

CAS#	Parameter	Result	RDL	MDL	Units
FLPRO-01	**Petroleum Hydrocarbons**	**177**	**9.26**	**5.79**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	4	4.79	mg/kg	120	25 - 132
7194-86-7	Nonatriacontane	24	9.79	mg/kg	41	25 - 132

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810038303	**B-13 (3-5)**	Solid	10/02/2008 09:30	10/03/2008 16:04

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	10/08/2008 11:27	AGC	398372

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.032U	0.147	0.032	mg/kg
100-41-4	Ethylbenzene	0.051U	0.147	0.051	mg/kg
108-88-3	Toluene	0.046U	0.147	0.046	mg/kg
1330-20-7	Xylene (total)	0.190U	0.441	0.190	mg/kg
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**0.415**	**0.147**	**0.026**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5.68	5.61	mg/kg	99	62 - 127
1868-53-7	Dibromofluoromethane	5.68	5.55	mg/kg	98	65 - 130
2037-26-5	Toluene d8	5.68	6.08	mg/kg	107	71 - 132
17060-07-0	1,2-Dichloroethane-d4	5.68	5.85	mg/kg	103	62 - 125

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/06/2008 09:00	398220	3550B	1	10/08/2008 15:50	KCB	398382

CAS#	Parameter	Result	RDL	MDL	Units
90-12-0	1-Methylnaphthalene	0.014U	0.421	0.014	mg/kg
91-57-6	2-Methylnaphthalene	0.014U	0.421	0.014	mg/kg
83-32-9	Acenaphthene	0.013U	0.421	0.013	mg/kg
208-96-8	Acenaphthylene	0.012U	0.421	0.012	mg/kg
120-12-7	Anthracene	0.00541U	0.421	0.00541	mg/kg
56-55-3	Benzo(a)anthracene	0.00624U	0.421	0.00624	mg/kg
50-32-8	Benzo(a)pyrene	0.030U	0.421	0.030	mg/kg
205-99-2	Benzo(b)fluoranthene	0.029U	0.421	0.029	mg/kg
191-24-2	Benzo(g,h,i)perylene	0.038U	0.421	0.038	mg/kg
207-08-9	Benzo(k)fluoranthene	0.078U	0.421	0.078	mg/kg
218-01-9	Chrysene	0.011U	0.421	0.011	mg/kg
53-70-3	Dibenz(a,h)anthracene	0.024U	0.421	0.024	mg/kg
206-44-0	Fluoranthene	0.00731U	0.421	0.00731	mg/kg
86-73-7	Fluorene	0.011U	0.421	0.011	mg/kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.064U	0.421	0.064	mg/kg
91-20-3	Naphthalene	0.106U	0.421	0.106	mg/kg
85-01-8	Phenanthrene	0.00996U	0.421	0.00996	mg/kg
129-00-0	Pyrene	0.012U	0.421	0.012	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1.64	1.17	mg/kg	71	46 - 123
321-60-8	2-Fluorobiphenyl	1.64	1.19	mg/kg	72	47 - 127
1718-51-0	Terphenyl-d14	1.64	1.11	mg/kg	67	38 - 167

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810038303	**B-13 (3-5)**	Solid	10/02/2008 09:30	10/03/2008 16:04

Florida PRO

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/09/2008 11:00	398508	8015B Modified C8-C40	1	10/09/2008 19:04	TLS	398609

CAS#	Parameter	Result	RDL	MDL	Units
FLPRO-01	**Petroleum Hydrocarbons**	**115**	**10.3**	**6.47**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	4	4.79	mg/kg	120	25 - 132
7194-86-7	Nonatriacontane	24	16.6	mg/kg	69	25 - 132

RESULTS REPORTED ON A DRY WEIGHT BASIS

GC/MS Volatiles Quality Control Summary

Analytical Batch	398372	**Client ID**	MB398372	LCS398372	LCSD398372
Prep Batch	N/A	**GCAL ID**	654072	654073	654074
		Sample Type	Method Blank	LCS	LCSD
		Analytical Date	10/08/2008 08:56	10/08/2008 08:12	10/08/2008 16:39
		Matrix	Solid	Solid	Solid

SW-846 8260B		**Units**	mg/kg	**Spike**			**Control**				**RPD**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**Limit**
100-41-4	Ethylbenzene	0.017U	0.017	2.50	2.48	99	80 - 123	2.76	110	11	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00890U	0.00890	2.50	2.20	88	69 - 131	2.36	94	7	30
1330-20-7	Xylene (total)	0.065U	0.065	7.50	7.53	100	80 - 120	8.42	112	11	30
71-43-2	Benzene	0.011U	0.011	2.50	2.33	93	78 - 120	2.69	108	14	21
108-88-3	Toluene	0.015U	0.015	2.50	2.36	94	78 - 122	2.67	107	12	21
Surrogate											
460-00-4	4-Bromofluorobenzene	2300	92	2500	2500	100	62 - 127	2460	98		
1868-53-7	Dibromofluoromethane	2620	105	2500	2510	100	65 - 130	2510	100		
2037-26-5	Toluene d8	2710	108	2500	2510	100	71 - 132	2480	99		
17060-07-0	1,2-Dichloroethane-d4	2720	109	2500	2720	109	62 - 125	2620	105		

Analytical Batch	398372	**Client ID**	081001X036-01	652586MS	652586MSD
Prep Batch	N/A	**GCAL ID**	20810032201	654475	654476
		Sample Type	SAMPLE	MS	MSD
		Analytical Date	10/08/2008 14:03	10/08/2008 15:10	10/08/2008 15:32
		Matrix	Solid	Solid	Solid

SW-846 8260B		**Units**	mg/kg	**Spike**			**Control**				**RPD**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**Limit**
71-43-2	Benzene	0.00	5.39	1250	1090	88	80 - 120	1070	86	2	21
108-88-3	Toluene	1390	7.72	1250	1860	**38***	80 - 120	1830	**35***	2	21
Surrogate											
460-00-4	4-Bromofluorobenzene			1250000	1220000	98	62 - 127	1260000	101		
1868-53-7	Dibromofluoromethane			1250000	1260000	101	65 - 130	1210000	97		
2037-26-5	Toluene d8			1250000	1250000	100	71 - 132	1240000	100		
17060-07-0	1,2-Dichloroethane-d4			1250000	1350000	108	62 - 125	1300000	104		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	398382	**Client ID**	MB398220	LCS398220
Prep Batch	398220	**GCAL ID**	653296	653297
Prep Method	3550B	**Sample Type**	Method Blank	LCS
		Prep Date	10/06/2008 09:00	10/06/2008 09:00
		Analytical Date	10/08/2008 09:50	10/08/2008 10:05
		Matrix	Solid	Solid

SW-846 8270C		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
208-96-8	Acenaphthylene	0.00969U	0.00969	3.33	3.05	92	57 - 120
120-12-7	Anthracene	0.00424U	0.00424	3.33	3.01	90	60 - 120
56-55-3	Benzo(a)anthracene	0.00489U	0.00489	3.33	3.68	110	60 - 120
205-99-2	Benzo(b)fluoranthene	0.022U	0.022	3.33	3.65	110	56 - 120
207-08-9	Benzo(k)fluoranthene	0.061U	0.061	3.33	2.87	86	55 - 120
191-24-2	Benzo(g,h,i)perylene	0.030U	0.030	3.33	2.31	69	46 - 128
50-32-8	Benzo(a)pyrene	0.024U	0.024	3.33	3.31	99	62 - 120
218-01-9	Chrysene	0.00846U	0.00846	3.27	2.56	78	61 - 120
53-70-3	Dibenz(a,h)anthracene	0.019U	0.019	3.33	2.98	89	50 - 135
206-44-0	Fluoranthene	0.00573U	0.00573	3.33	2.75	83	54 - 120
86-73-7	Fluorene	0.00887U	0.00887	3.33	2.62	79	54 - 120
193-39-5	Indeno(1,2,3-cd)pyrene	0.051U	0.051	3.33	2.21	66	43 - 132
91-57-6	2-Methylnaphthalene	0.011U	0.011	3.33	3.58	107	53 - 120
91-20-3	Naphthalene	0.083U	0.083	3.33	2.81	84	53 - 120
85-01-8	Phenanthrene	0.00780U	0.00780	3.33	2.88	86	59 - 120
90-12-0	1-Methylnaphthalene	0.011U	0.011	3.33	2.65	80	52 - 120
108-95-2	Phenol	0.00900U	0.00900	3.33	2.58	77	34 - 120
95-57-8	2-Chlorophenol	0.014U	0.014	3.33	2.62	79	44 - 120
106-46-7	1,4-Dichlorobenzene	0.167U	0.167	3.33	2.63	79	40 - 120
621-64-7	n-Nitrosodi-n-propylamine	0.013U	0.013	3.33	2.83	85	45 - 122
120-82-1	1,2,4-Trichlorobenzene	0.167U	0.167	3.33	2.87	86	46 - 120
59-50-7	4-Chloro-3-methylphenol	0.00857U	0.00857	3.33	2.65	80	48 - 112
83-32-9	Acenaphthene	0.010U	0.010	3.33	2.70	81	41 - 120
100-02-7	4-Nitrophenol	0.037U	0.037	3.33	2.54	76	38 - 125
121-14-2	2,4-Dinitrotoluene	0.037U	0.037	3.33	2.57	77	44 - 121
87-86-5	Pentachlorophenol	0.020U	0.020	3.33	2.30	69	23 - 142
129-00-0	Pyrene	0.00957U	0.00957	3.33	3.47	104	39 - 135
Surrogate							
4165-60-0	Nitrobenzene-d5	1310	79	1670	1420	85	46 - 123
321-60-8	2-Fluorobiphenyl	1350	81	1670	1490	89	47 - 127
1718-51-0	Terphenyl-d14	1540	92	1670	1680	101	38 - 167

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	398382	**Client ID**	TRACKING #14702	652690MS	652690MSD
Prep Batch	398220	**GCAL ID**	20810035401	653299	653300
Prep Method	3550B	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	10/06/2008 09:00	10/06/2008 09:00	10/06/2008 09:00
		Analytical Date	10/08/2008 15:05	10/08/2008 13:49	10/08/2008 14:04
		Matrix	Solid	Solid	Solid

SW-846 8270C		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
208-96-8	Acenaphthylene	0.00	0.096	3.30	3.65	111	57 - 120	3.40	102	7	18
120-12-7	Anthracene	0.00	0.042	3.30	3.57	108	60 - 120	3.24	98	10	19
56-55-3	Benzo(a)anthracene	0.00	0.048	3.30	3.59	109	60 - 120	3.19	96	12	19
205-99-2	Benzo(b)fluoranthene	0.00	0.222	3.30	3.16	96	56 - 120	2.59	78	20	24
207-08-9	Benzo(k)fluoranthene	0.00	0.608	3.30	3.68	112	55 - 120	3.64	110	1	31
191-24-2	Benzo(g,h,i)perylene	0.00	0.292	3.30	4.40	**133***	46 - 128	4.06	122	8	19
50-32-8	Benzo(a)pyrene	0.00	0.233	3.30	3.92	119	62 - 120	3.71	112	6	16
218-01-9	Chrysene	0.00	0.084	3.23	3.26	101	61 - 120	2.87	88	13	19
53-70-3	Dibenz(a,h)anthracene	0.00	0.185	3.30	4.18	127	50 - 135	4.20	126	0.5	23
206-44-0	Fluoranthene	0.00	0.057	3.30	2.93	89	54 - 120	2.46	74	17	20
86-73-7	Fluorene	0.00	0.088	3.30	3.56	108	54 - 120	3.23	97	10	16
193-39-5	Indeno(1,2,3-cd)pyrene	0.00	0.500	3.30	4.50	**136***	43 - 132	4.54	**137***	0.9	33
91-57-6	2-Methylnaphthalene	0.00	0.111	3.30	3.18	96	53 - 120	3.05	92	4	18
91-20-3	Naphthalene	0.00	0.819	3.30	3.25	98	53 - 120	3.02	91	7	18
85-01-8	Phenanthrene	0.00	0.077	3.30	3.37	102	59 - 120	3.13	94	7	18
108-95-2	Phenol	0.00	0.089	3.30	3.48	105	34 - 120	3.40	102	2	25
95-57-8	2-Chlorophenol	0.00	0.137	3.30	3.11	94	44 - 120	3.07	92	1	26
106-46-7	1,4-Dichlorobenzene	0.00	1.65	3.30	2.59	78	40 - 120	2.49	75	4	23
621-64-7	n-Nitrosodi-n-propylamine	0.00	0.133	3.30	3.69	112	45 - 122	3.67	110	0.5	38
120-82-1	1,2,4-Trichlorobenzene	0.00	1.65	3.30	2.93	89	46 - 120	2.70	81	8	23
59-50-7	4-Chloro-3-methylphenol	0.00	0.085	3.30	3.34	101	48 - 112	3.26	98	2	24
83-32-9	Acenaphthene	0.00	0.103	3.30	3.28	99	41 - 120	3.10	93	6	19
100-02-7	4-Nitrophenol	0.00	0.369	3.30	4.45	**135***	38 - 125	3.96	119	12	29
121-14-2	2,4-Dinitrotoluene	0.00	0.363	3.30	3.71	112	44 - 121	3.38	102	9	23
87-86-5	Pentachlorophenol	0.00	0.200	3.30	6.34	**192***	23 - 142	6.10	**184***	4	26
129-00-0	Pyrene	0.00	0.095	3.30	3.50	106	39 - 135	3.45	104	1	26
Surrogate											
4165-60-0	Nitrobenzene-d5			1650	1620	98	46 - 123	1110	67		
321-60-8	2-Fluorobiphenyl			1650	1630	99	47 - 127	1470	88		
1718-51-0	Terphenyl-d14			1650	1720	104	38 - 167	1600	96		

General Chromatography Quality Control Summary

Analytical Batch	398609	**Client ID**	MB398508	LCS398508	LCSD398508
Prep Batch	398508	**GCAL ID**	654895	654896	654897
Prep Method	8015B	**Sample Type**	Method Blank	LCS	LCSD
	Modified	**Prep Date**	10/09/2008 11:00	10/09/2008 11:00	10/09/2008 11:00
	C8-C40	**Analytical Date**	10/10/2008 10:24	10/09/2008 16:31	10/09/2008 17:02
		Matrix	Solid	Solid	Solid

Florida PRO		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
FLPRO-01	Petroleum Hydrocarbons	5.00U	5.00	68.0	85.8	126	63 - 153	93.4	137	8	25
Surrogate											
84-15-1	o-Terphenyl	3750	94	4000	4520	113	25 - 132	4830	121		
7194-86-7	Nonatriacontane	6940	29	24000	13100	55	25 - 132	14200	59		

Analytical Batch	398609	**Client ID**	B-13 (3-5)	652845MS	652845MSD
Prep Batch	398508	**GCAL ID**	20810038303	654899	654900
Prep Method	8015B	**Sample Type**	SAMPLE	MS	MSD
	Modified	**Prep Date**	10/09/2008 11:00	10/09/2008 11:00	10/09/2008 11:00
	C8-C40	**Analytical Date**	10/09/2008 19:04	10/09/2008 19:34	10/10/2008 10:58
		Matrix	Solid	Solid	Solid

Florida PRO		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
FLPRO-01	Petroleum Hydrocarbons	88.7	5.00	68.0	130	**61***	62 - 204	132	63	2	25
Surrogate											
84-15-1	o-Terphenyl	4.79	120	4000	3980	100	25 - 132	4090	102		
7194-86-7	Nonatriacontane	16.6	69	24000	14200	59	25 - 132	12400	52		

CASE NARRATIVE

Client: Aerostar **Report:** 208100383

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

This report was resubmitted on 11/24/08. The client revised the client IDs for each sample.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis, samples 20810038301 (B-11 (3-5)) and 20810038302 (B-12 (3-5)) had to be diluted due to the presence of non-target background. This dilution is reflected in the elevated reporting limits.

In the SW-846 8260B analysis, sample 20810038303 (B-13 (3-5)) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument.

In the SW-846 8260B analysis for analytical batch 398372, the MS/MSD exhibited recovery failures.

SEMI-VOLATILES MASS SPECTROMETRY

In the SW-846 8270C analysis for prep batch 398220, the MS/MSD exhibited recovery failures due to matrix interference. Benzo(g,h andi)perylene was recovered outside of the established control limits for the LCS and/or LCSD.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the GCSV 8015B Modified C8-C40 analysis for 398508, the MS/MSD recoveries were outside QC limits in a similar manner. This can be attributed to a matrix interference.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 208100383

THIS REPORT CONTAINS _____ PAGES.

Labnet/4569/e08100383/10-10-08

Chain of Custody Record

Lab Report No.:

Company: AEROSTAR	**Gulf Coast LabNet, Inc.** An Environmental Lab Services Co.	Modified from DEP Form #: 62-770.900(2) — Page 1 of 1
Address: 4640 S. CARROLLTAN AVE. NEW ORLEANS, LA 70119	Phone: (251) 625-1331 Fax: (251) 625-1299	FDEP Facility No.:
		Project Name: NAS PENSACOLA
		Location: BUILDING 38
		Project No.: 0407-4606-05

Attn: EMILIE WIEN	Phone:		
Sampled by [Print Name]/Affiliation: Emilie Wien	Sampler Signature:		

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Comp.	Matrix Codes	No. Cont.	8260 Soil BTEX/MTBE H	8270 PAH H	FL-PRO H	←Preservative	←Analysis	REQUESTED DUE DATE	Remarks	Lab. No.
	B-7 (3-5')	10/2/08	1140		SO	4	X	X	X					1
	B-8 (3-5')	10/2/08	1500		SO	4	X	X	X					2
	B-9 (3-5')	10/2/08	930		SO	4	X	X	X					3

Shipment Method

Out: / / Via:

Returned: / / Via:

Additional Comments

←Total Number of Containers

Item #	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
	EMPTY CONTAINERS	10/1/08	1000		10/1/08	1000
		10/3/08	1400		10-3-08	1345
		10-3-08	1604	MK	10-3-8	1604

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
	7932	41

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify) CH_3OH + DI H_2O

APPENDIX C

Temporary Well Analytical Report
And
Chain-of-Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

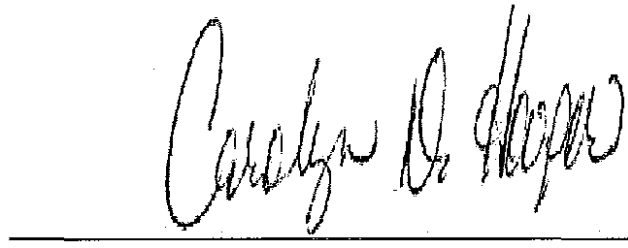
ANALYTICAL REPORT

Job Number: 400-27402-1

Job Description: NAS Pensacola - Bldg. 38 - Pensacola, FL

For:
Aerostar Environmental Services, Inc.
4640 S. Carrolltan Avenue
New Orleans, LA 70119

Attention: Emilie Wien



Carolyn Hooper
Project Manager I
carolyn.hooper@testamericainc.com
12/28/2007

cc: Ms. Dawn Hudson
Mr. Danny Miller
Mr. Carl D Williams

The test results in this report meet all NELAP requirements for accredited parameters and relate only to the referenced samples. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Pensacola Certifications and Approvals: Alabama (#40150), Arizona (#AZ0589), Arkansas (#88-0689), California (#2510), Florida (#E81010), Florida CQAP (#980156), Illinois (#200041), Iowa (#367), Kansas (#E10253), Kentucky UST (#0053), Louisiana (#30748), Maryland (#233), Massachusetts (#M-FL094), Michigan (#9912), New Hampshire (#250502), New Jersey (#FL006), North Carolina (#314), North Dakota (#R-108), Oklahoma (#9810), Pennsylvania (#68-467), South Carolina (#96026), Tennessee (#02907), Virginia (#00008), West Virginia (#136), USDA Foreign Soil Permit (#S-37599).

TestAmerica Laboratories, Inc.
TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514
Tel (850) 474-1001 Fax (850) 478-2671 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

SAMPLE SUMMARY

Client: Aerostar Environmental Services, Inc. Job Number: 400-27402-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-27402-1	TW-1	Water	12/20/2007 1000	12/21/2007 1638
400-27402-2	TW-2	Water	12/20/2007 1110	12/21/2007 1638
400-27402-3	TW-3	Water	12/20/2007 1145	12/21/2007 1638
400-27402-4	TW-4	Water	12/20/2007 1230	12/21/2007 1638
400-27402-5	TW-5	Water	12/20/2007 1345	12/21/2007 1638
400-27402-6	TW-6	Water	12/20/2007 1500	12/21/2007 1638

EXECUTIVE SUMMARY - Detections

Client: Aerostar Environmental Services, Inc. Job Number: 400-27402-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
400-27402-1	**TW-1**					
2-Methylnaphthalene		0.21	I	9.7	ug/L	8270C
Total Petroleum Hydrocarbons (C8-C40)		50	I	120	ug/L	FL-PRO
400-27402-3	**TW-3**					
1-Methylnaphthalene		0.94	I	9.3	ug/L	8270C
2-Methylnaphthalene		0.49	I	9.3	ug/L	8270C
Total Petroleum Hydrocarbons (C8-C40)		280		120	ug/L	FL-PRO
400-27402-4	**TW-4**					
Total Petroleum Hydrocarbons (C8-C40)		53	I	130	ug/L	FL-PRO
400-27402-5	**TW-5**					
Total Petroleum Hydrocarbons (C8-C40)		49	I	100	ug/L	FL-PRO
400-27402-6	**TW-6**					
Total Petroleum Hydrocarbons (C8-C40)		110		100	ug/L	FL-PRO

SAMPLE RESULTS

Emilie Wien
Aerostar Environmental Services, Inc.
4640 S. Carrollton Avenue
New Orleans, LA 70119

Job Number: 400-27402-1

Client Sample ID: TW-1
Lab Sample ID: 400-27402-1

Date Sampled: 12/20/2007 1000
Date Received: 12/21/2007 1638
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		12/26/2007 1621	
Prep Method: 3520C			Date Prepared:		12/22/2007 0841	
Acenaphthene	0.19	U	ug/L	0.19	9.7	1.0
Acenaphthylene	0.19	U	ug/L	0.19	9.7	1.0
Anthracene	0.19	U	ug/L	0.19	9.7	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.7	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.7	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.7	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.7	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.7	1.0
Chrysene	0.19	U	ug/L	0.19	9.7	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.7	1.0
Fluoranthene	0.19	U	ug/L	0.19	9.7	1.0
Fluorene	0.19	U	ug/L	0.19	9.7	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.7	1.0
Naphthalene	0.49	U	ug/L	0.49	9.7	1.0
Phenanthrene	0.19	U	ug/L	0.19	9.7	1.0
Pyrene	0.49	U	ug/L	0.49	9.7	1.0
1-Methylnaphthalene	0.97	U	ug/L	0.97	9.7	1.0
2-Methylnaphthalene	0.21	I	ug/L	0.19	9.7	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	69		%		40 - 100	
Nitrobenzene-d5	59		%		33 - 92	
Terphenyl-d14	85		%		58 - 114	
Method: FL-PRO			Date Analyzed:		12/24/2007 0952	
Prep Method: 3510C			Date Prepared:		12/22/2007 1033	
Total Petroleum Hydrocarbons (C8-C40)	50	I	ug/L	41	120	1.0
Surrogate					Acceptance Limits	
n-C39	30		%		20 - 176	
o-Terphenyl	85		%		49 - 143	

Emilie Wien
Aerostar Environmental Services, Inc.
4640 S. Carrollton Avenue
New Orleans, LA 70119

Job Number: 400-27402-1

Client Sample ID: TW-2
Lab Sample ID: 400-27402-2

Date Sampled: 12/20/2007 1110
Date Received: 12/21/2007 1638
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		12/26/2007 1651	
Prep Method: 3520C			Date Prepared:		12/22/2007 0841	
Acenaphthene	0.19	U	ug/L	0.19	9.3	1.0
Acenaphthylene	0.19	U	ug/L	0.19	9.3	1.0
Anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Chrysene	0.19	U	ug/L	0.19	9.3	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.3	1.0
Fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Fluorene	0.19	U	ug/L	0.19	9.3	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Naphthalene	0.46	U	ug/L	0.46	9.3	1.0
Phenanthrene	0.19	U	ug/L	0.19	9.3	1.0
Pyrene	0.46	U	ug/L	0.46	9.3	1.0
1-Methylnaphthalene	0.93	U	ug/L	0.93	9.3	1.0
2-Methylnaphthalene	0.19	U	ug/L	0.19	9.3	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	52		%		40 - 100	
Nitrobenzene-d5	49		%		33 - 92	
Terphenyl-d14	68		%		58 - 114	
Method: FL-PRO			Date Analyzed:		12/24/2007 0956	
Prep Method: 3510C			Date Prepared:		12/22/2007 1033	
Total Petroleum Hydrocarbons (C8-C40)	41	U	ug/L	41	120	1.0
Surrogate					Acceptance Limits	
n-C39	25		%		20 - 176	
o-Terphenyl	68		%		49 - 143	

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Job Number: 400-27402-1

Client Sample ID: TW-3
Lab Sample ID: 400-27402-3

Date Sampled: 12/20/2007 1145
Date Received: 12/21/2007 1638
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		12/26/2007 1721	
Prep Method: 3520C			Date Prepared:		12/22/2007 0841	
Acenaphthene	0.19	U	ug/L	0.19	9.3	1.0
Acenaphthylene	0.19	U	ug/L	0.19	9.3	1.0
Anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Chrysene	0.19	U	ug/L	0.19	9.3	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.3	1.0
Fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Fluorene	0.19	U	ug/L	0.19	9.3	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Naphthalene	0.47	U	ug/L	0.47	9.3	1.0
Phenanthrene	0.19	U	ug/L	0.19	9.3	1.0
Pyrene	0.47	U	ug/L	0.47	9.3	1.0
1-Methylnaphthalene	0.94	I	ug/L	0.93	9.3	1.0
2-Methylnaphthalene	0.49	I	ug/L	0.19	9.3	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	31	J1	%		40 - 100	
Nitrobenzene-d5	29	J1	%		33 - 92	
Terphenyl-d14	45	J1	%		58 - 114	
Method: FL-PRO			Date Analyzed:		12/24/2007 1001	
Prep Method: 3510C			Date Prepared:		12/22/2007 1033	
Total Petroleum Hydrocarbons (C8-C40)	280		ug/L	41	120	1.0
Surrogate					Acceptance Limits	
n-C39	32		%		20 - 176	
o-Terphenyl	75		%		49 - 143	

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Job Number: 400-27402-1

Client Sample ID: TW-4
Lab Sample ID: 400-27402-4

Date Sampled: 12/20/2007 1230
Date Received: 12/21/2007 1638
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		12/26/2007 1751	
Prep Method: 3520C			Date Prepared:		12/22/2007 0841	
Acenaphthene	0.19	U	ug/L	0.19	9.3	1.0
Acenaphthylene	0.19	U	ug/L	0.19	9.3	1.0
Anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Chrysene	0.19	U	ug/L	0.19	9.3	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.3	1.0
Fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Fluorene	0.19	U	ug/L	0.19	9.3	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Naphthalene	0.46	U	ug/L	0.46	9.3	1.0
Phenanthrene	0.19	U	ug/L	0.19	9.3	1.0
Pyrene	0.46	U	ug/L	0.46	9.3	1.0
1-Methylnaphthalene	0.93	U	ug/L	0.93	9.3	1.0
2-Methylnaphthalene	0.19	U	ug/L	0.19	9.3	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	68		%		40 - 100	
Nitrobenzene-d5	62		%		33 - 92	
Terphenyl-d14	91		%		58 - 114	
Method: FL-PRO			Date Analyzed:		12/24/2007 1006	
Prep Method: 3510C			Date Prepared:		12/22/2007 1033	
Total Petroleum Hydrocarbons (C8-C40)	53	I	ug/L	44	130	1.0
Surrogate					Acceptance Limits	
n-C39	35		%		20 - 176	
o-Terphenyl	82		%		49 - 143	

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Job Number: 400-27402-1

Client Sample ID: TW-5
Lab Sample ID: 400-27402-5

Date Sampled: 12/20/2007 1345
Date Received: 12/21/2007 1638
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		12/26/2007 1821	
Prep Method: 3520C			Date Prepared:		12/22/2007 0841	
Acenaphthene	0.19	U	ug/L	0.19	9.3	1.0
Acenaphthylene	0.19	U	ug/L	0.19	9.3	1.0
Anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Chrysene	0.19	U	ug/L	0.19	9.3	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.3	1.0
Fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Fluorene	0.19	U	ug/L	0.19	9.3	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Naphthalene	0.46	U	ug/L	0.46	9.3	1.0
Phenanthrene	0.19	U	ug/L	0.19	9.3	1.0
Pyrene	0.46	U	ug/L	0.46	9.3	1.0
1-Methylnaphthalene	0.93	U	ug/L	0.93	9.3	1.0
2-Methylnaphthalene	0.19	U	ug/L	0.19	9.3	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	69		%		40 - 100	
Nitrobenzene-d5	63		%		33 - 92	
Terphenyl-d14	85		%		58 - 114	
Method: FL-PRO			Date Analyzed:		12/24/2007 2043	
Prep Method: 3510C			Date Prepared:		12/22/2007 1033	
Total Petroleum Hydrocarbons (C8-C40)	49	I	ug/L	36	100	1.0
Surrogate					Acceptance Limits	
n-C39	22		%		20 - 176	
o-Terphenyl	41	J1	%		49 - 143	

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Job Number: 400-27402-1

Client Sample ID: TW-6
Lab Sample ID: 400-27402-6

Date Sampled: 12/20/2007 1500
Date Received: 12/21/2007 1638
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		12/26/2007 1851	
Prep Method: 3520C			Date Prepared:		12/22/2007 0841	
Acenaphthene	0.19	U	ug/L	0.19	9.6	1.0
Acenaphthylene	0.19	U	ug/L	0.19	9.6	1.0
Anthracene	0.19	U	ug/L	0.19	9.6	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.6	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.6	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.6	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.6	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.6	1.0
Chrysene	0.19	U	ug/L	0.19	9.6	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.6	1.0
Fluoranthene	0.19	U	ug/L	0.19	9.6	1.0
Fluorene	0.19	U	ug/L	0.19	9.6	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.6	1.0
Naphthalene	0.48	U	ug/L	0.48	9.6	1.0
Phenanthrene	0.19	U	ug/L	0.19	9.6	1.0
Pyrene	0.48	U	ug/L	0.48	9.6	1.0
1-Methylnaphthalene	0.96	U	ug/L	0.96	9.6	1.0
2-Methylnaphthalene	0.19	U	ug/L	0.19	9.6	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	70		%		40 - 100	
Nitrobenzene-d5	65		%		33 - 92	
Terphenyl-d14	80		%		58 - 114	
Method: FL-PRO			Date Analyzed:		12/24/2007 2048	
Prep Method: 3510C			Date Prepared:		12/22/2007 1033	
Total Petroleum Hydrocarbons (C8-C40)	110		ug/L	36	100	1.0
Surrogate					Acceptance Limits	
n-C39	26		%		20 - 176	
o-Terphenyl	50		%		49 - 143	

DATA REPORTING QUALIFIERS

Client: Aerostar Environmental Services, Inc. Job Number: 400-27402-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC Semi VOA		
	J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Job Narrative
400-J27402-1

Comments

No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS Semi VOA
Method(s) 8270C: Surrogate recovery for the following sample was outside of acceptance limits: TW-3 (400-27402-3). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
Method(s) 3520C: Batch 61454 / 8270 Insufficient sample volume was provided to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses.

Method(s) 3520C: Batch 61464 / FLPRO Insufficient sample volume was provided to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses.

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: Aerostar Environmental Services, Inc. Job Number: 400-27402-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL PEN	SW846 8270C	
Continuous Liquid-Liquid Extraction	TAL PEN		SW846 3520C
Florida Method for Determination of Petroleum Range Organics by GC/FID	TAL PEN	FL-DEP FL-PRO	
3510C	TAL PEN		SW846 3510C

Lab References:

TAL PEN = TestAmerica Pensacola

Method References:

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Aerostar Environmental Services, Inc. Job Number: 400-27402-1

Method	Analyst	Analyst ID
SW846 8270C	Schumann, Jane	JS
FL-DEP FL-PRO	Ayers, Kim	KA

QUALITY CONTROL RESULTS

Client: Aerostar Environmental Services, Inc. Job Number: 400-27402-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 400-61454					
LCS 400-61454/20-A	Lab Control Spike	T	Water	3520C	
MB 400-61454/21-A	Method Blank	T	Water	3520C	
400-27402-1	TW-1	T	Water	3520C	
400-27402-2	TW-2	T	Water	3520C	
400-27402-3	TW-3	T	Water	3520C	
400-27402-4	TW-4	T	Water	3520C	
400-27402-5	TW-5	T	Water	3520C	
400-27402-6	TW-6	T	Water	3520C	
Analysis Batch:400-61797					
LCS 400-61454/20-A	Lab Control Spike	T	Water	8270C	400-61454
MB 400-61454/21-A	Method Blank	T	Water	8270C	400-61454
400-27402-1	TW-1	T	Water	8270C	400-61454
400-27402-2	TW-2	T	Water	8270C	400-61454
400-27402-3	TW-3	T	Water	8270C	400-61454
400-27402-4	TW-4	T	Water	8270C	400-61454
400-27402-5	TW-5	T	Water	8270C	400-61454
400-27402-6	TW-6	T	Water	8270C	400-61454

Report Basis
T = Total

Client: Aerostar Environmental Services, Inc. Job Number: 400-27402-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 400-61464					
LCS 400-61464/9-A	Lab Control Spike	T	Water	3510C	
MB 400-61464/10-A	Method Blank	T	Water	3510C	
400-27402-1	TW-1	T	Water	3510C	
400-27402-2	TW-2	T	Water	3510C	
400-27402-3	TW-3	T	Water	3510C	
400-27402-4	TW-4	T	Water	3510C	
400-27402-5	TW-5	T	Water	3510C	
400-27402-6	TW-6	T	Water	3510C	
Analysis Batch:400-61564					
LCS 400-61464/9-A	Lab Control Spike	T	Water	FL-PRO	400-61464
MB 400-61464/10-A	Method Blank	T	Water	FL-PRO	400-61464
400-27402-1	TW-1	T	Water	FL-PRO	400-61464
400-27402-2	TW-2	T	Water	FL-PRO	400-61464
400-27402-3	TW-3	T	Water	FL-PRO	400-61464
400-27402-4	TW-4	T	Water	FL-PRO	400-61464
400-27402-5	TW-5	T	Water	FL-PRO	400-61464
400-27402-6	TW-6	T	Water	FL-PRO	400-61464

Report Basis
T = Total

Client: Aerostar Environmental Services, Inc. Job Number: 400-27402-1

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	FBP %Rec	NBZ %Rec	TPH %Rec
400-27402-1	TW-1	69	59	85
400-27402-2	TW-2	52	49	68
400-27402-3	TW-3	31J1	29J1	45J1
400-27402-4	TW-4	68	62	91
400-27402-5	TW-5	69	63	85
400-27402-6	TW-6	70	65	80
MB 400-61454/21-A		72	70	87
LCS 400-61454/20-A		75	71	87

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl	40-100
NBZ = Nitrobenzene-d5	33-92
TPH = Terphenyl-d14	58-114

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27402-1

Surrogate Recovery Report

FL-PRO Florida Method for Determination of Petroleum Range Organics by GC/FID

Client Matrix: Water

Lab Sample ID	Client Sample ID	C39 %Rec	OTPH %Rec
400-27402-1	TW-1	30	85
400-27402-2	TW-2	25	68
400-27402-3	TW-3	32	75
400-27402-4	TW-4	35	82
400-27402-5	TW-5	22	41J1
400-27402-6	TW-6	26	50
MB 400-61464/10-A		57	109
LCS 400-61464/9-A		25	89

Surrogate	Acceptance Limits
C39 = n-C39	20-176
OTPH = o-Terphenyl	49-143

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27402-1

Method Blank - Batch: 400-61454

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 400-61454/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/24/2007 1744
Date Prepared: 12/22/2007 0841

Analysis Batch: 400-61797
Prep Batch: 400-61454
Units: ug/L

Instrument ID: GC/MSD
Lab File ID: MB61454W.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Result	Qual	MDL	PQL
Acenaphthene	0.20	U	0.20	10
Acenaphthylene	0.20	U	0.20	10
Anthracene	0.20	U	0.20	10
Benzo[a]anthracene	0.20	U	0.20	10
Benzo[a]pyrene	0.20	U	0.20	10
Benzo[b]fluoranthene	0.20	U	0.20	10
Benzo[g,h,i]perylene	0.20	U	0.20	10
Benzo[k]fluoranthene	0.20	U	0.20	10
Chrysene	0.20	U	0.20	10
Dibenz(a,h)anthracene	0.20	U	0.20	10
Fluoranthene	0.20	U	0.20	10
Fluorene	0.20	U	0.20	10
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	10
Naphthalene	0.50	U	0.50	10
Phenanthrene	0.20	U	0.20	10
Pyrene	0.50	U	0.50	10
1-Methylnaphthalene	1.0	U	1.0	10
2-Methylnaphthalene	0.20	U	0.20	10

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	72	40 - 100
Nitrobenzene-d5	70	33 - 92
Terphenyl-d14	87	58 - 114

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27402-1

Lab Control Spike - Batch: 400-61454

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 400-61454/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/24/2007 1813
Date Prepared: 12/22/2007 0841

Analysis Batch: 400-61797
Prep Batch: 400-61454
Units: ug/L

Instrument ID: GC/MSD
Lab File ID: LS61454W.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	50.0	39.7	79	57 - 120	
Acenaphthylene	50.0	38.4	77	59 - 126	
Anthracene	50.0	41.1	82	66 - 112	
Benzo[a]anthracene	50.0	44.2	88	65 - 119	
Benzo[a]pyrene	50.0	44.9	90	62 - 113	
Benzo[b]fluoranthene	50.0	40.0	80	59 - 112	
Benzo[g,h,i]perylene	50.0	45.1	90	55 - 119	
Benzo[k]fluoranthene	50.0	50.5	101	64 - 132	
Chrysene	50.0	45.3	91	65 - 121	
Dibenz(a,h)anthracene	50.0	59.4	119	26 - 183	
Fluoranthene	50.0	47.0	94	70 - 121	
Fluorene	50.0	42.1	84	66 - 120	
Indeno[1,2,3-cd]pyrene	50.0	44.7	89	57 - 116	
Naphthalene	50.0	33.8	68	45 - 114	
Phenanthrene	50.0	42.7	85	66 - 121	
Pyrene	50.0	43.3	87	64 - 124	
1-Methylnaphthalene	50.0	38.3	77	51 - 121	
2-Methylnaphthalene	50.0	35.1	70	51 - 119	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	75	40 - 100
Nitrobenzene-d5	71	33 - 92
Terphenyl-d14	87	58 - 114

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27402-1

Method Blank - Batch: 400-61464

Method: FL-PRO
Preparation: 3510C

Lab Sample ID: MB 400-61464/10-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/24/2007 2038
Date Prepared: 12/22/2007 1033

Analysis Batch: 400-61564
Prep Batch: 400-61464
Units: ug/L

Instrument ID: GC/FID/FID
Lab File ID: B041.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.4 mL
Injection Volume:

Analyte	Result	Qual	MDL	PQL
Total Petroleum Hydrocarbons (C8-C40)	36	U	36	110

Surrogate	% Rec	Acceptance Limits
n-C39	57	20 - 176
o-Terphenyl	109	49 - 143

Lab Control Spike - Batch: 400-61464

Method: FL-PRO
Preparation: 3510C

Lab Sample ID: LCS 400-61464/9-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/24/2007 0942
Date Prepared: 12/22/2007 1033

Analysis Batch: 400-61564
Prep Batch: 400-61464
Units: ug/L

Instrument ID: GC/FID/FID
Lab File ID: 0801008.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.9 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Petroleum Hydrocarbons (C8-C40)	3400	2430	71	41 - 133	

Surrogate	% Rec	Acceptance Limits
n-C39	25	20 - 176
o-Terphenyl	89	49 - 143

Calculations are performed before rounding to avoid round-off errors in calculated results.

488-27402

Chain of Custody Record

Lab Report No.:

Company: Aerostar	**Gulf Coast LabNet, Inc.** **An Environmental Lab Services Co.** Phone: (251) 625-1331 Fax: (251) 625-1299	Modified from DEP Form #: 62-770.900(2) — Page 1 of 1
Address: 4640 S. Carrollton Ave. New Orleans, LA 70119		FDEP Facility No.: Project Name: NAS Pensacola Bldg 35 Location: Pensacola, FL Project No.:
Attn: Emilie Wien — Phone: Fax:		←Preservative ←Analysis **REQUESTED DUE DATE**
Sampled by (Print Name)/Affiliation: Emilie Wien — Sampler Signature		

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Comp.	Matrix Codes	No. Cont.	PAH's	FL-PRO	Remarks	Lab. No.
	TW-1	12/20/07	1000		GW	2	X	X		
	TW-2		1100			2	X	X		
	TW-3		1145			2	X	X		
	TW-4		1230			2	X	X		
	TW-5		1345			2	X	X		
	TW-6		1500			2	X	X		

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Shipment Method

12 ←Total Number of Containers

Out: / /	Via:	Item #	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / /	Via:			12/21/07	1130	GCL	12-21-07	1130
Additional Comments			GCL	12-21-07	1405		12/21/07	1405

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
0.0°C 0.0°C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

Login Sample Receipt Check List

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27402-1

Login Number: 27402
Creator: Hooper, Carolyn
List Number: 1

List Source: TestAmerica Pensacola

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 0.0°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

APPENDIX D

Monitor Well Construction Logs

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-1	Building 38, NAS Pensacola, FL		12/21/07

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Hollow Stem Auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15.0	14.70	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	☐ Flush-Threaded ☐ Other (describe)	feet from 0 feet to 4.70 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	Schedule 40, 10 Slot	feet from 4.70 feet to 14.70 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: feet from feet to feet
2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: feet from feet to feet
3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Silica Sand	☐ Yes ☐ No	feet from 2.50 feet to 14.70 feet

Filter Pack Seal Material and Size: Bentonite	Filter Pack Seal Length:
	feet from 1.50 feet to 2.50 feet

Surface Seal Material: Groute	Surface Seal Length:
	feet from 0.50 feet to 1.50 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
12/19/07	☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	6.00

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.50 gallons per minute	0.01 feet	☐ Yes ☐ No

Pumping Condition ☐ Continuous ☐ Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
	20	40	☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Clear with petroleum odor	Clear with slight odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-2	Building 38, NAS Pensacola, FL		12/21/07

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Hollow Stem Auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15.0	14.41	8	8	2 feet by 2 feet

Riser Diameter and Material: 2" PVC

Riser/Screen Connections: ☐ Flush-Threaded ☐ Other (describe)

Riser Length: ____ feet from 0 feet to 14.41 feet

Screen Diameter and Material: 2" PVC

Screen Slot Size: Schedule 40, 10 Slot

Screen Length: ____ feet from 4.41 feet to 14.41 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: 20/30 Silica Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☐ No

Filter Pack Length: ____ feet from 2.50 feet to 14.41 feet

Filter Pack Seal Material and Size: Bentonite

Filter Pack Seal Length: ____ feet from 1.50 feet to 2.50 feet

Surface Seal Material: Groute

Surface Seal Length: ____ feet from 0.50 feet to 1.50 feet

WELL DEVELOPMENT DATA

Well Development Date: 12/19/07

Well Development Method (check one): ☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☐ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 6.00

Pumping Rate (gallons per minute): 0.50 gallons per minute

Maximum Drawdown of Groundwater During Development (feet): 0.01 feet

Well Purged Dry (check one): ☐ Yes ☐ No

Pumping Condition (check one): ☐ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 20

Development Duration (minutes): 40

Development Water Drummed (check one): ☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development: Clear with petroleum odor

Water Appearance (color and odor) At End of Development: Clear with no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-3	Building 38, NAS Pensacola, FL		12/21/07

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Hollow Stem Auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15.0	14.02	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	☐ Flush-Threaded ☐ Other (describe)	from 0 feet to 4.02 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	Schedule 40, 10 Slot	from 4.02 feet to 14.02 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		from ____ feet to ____ feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		from ____ feet to ____ feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Silica Sand	☐ Yes ☐ No	from 2.50 feet to 14.02 feet

Filter Pack Seal Material and Size: Bentonite	Filter Pack Seal Length:
	from 1.50 feet to 2.50 feet

Surface Seal Material: Groute	Surface Seal Length:
	from 0.50 feet to 1.50 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
09/27/06	☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	6.00

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.50 gallons per minute	0.01 feet	☐ Yes ☐ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☐ Continuous ☐ Intermittent	20	40	☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Clear with petroleum odor	Clear with no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-4	Building 38, NAS Pensacola, FL		12/21/07

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Hollow Stem Auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15.0	14.35	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	☐ Flush-Threaded ☐ Other (describe)	feet from 0 feet to 4.35 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	Schedule 40, 10 Slot	feet from 4.35 feet to 14.35 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: feet from feet to feet
2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: feet from feet to feet
3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Silica Sand	☐ Yes ☐ No	feet from 2.50 feet to 14.35 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
Bentonite	feet from 1.50 feet to 2.50 feet

Surface Seal Material:	Surface Seal Length:
Groute	feet from 0.50 feet to 1.50 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
12/19/07	☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	6.00

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.50 gallons per minute	0.01 feet	☐ Yes ☐ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☐ Continuous ☐ Intermittent	20	40	☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Clear with petroleum odor	Clear with no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-5	Building 38, NAS Pensacola, FL		12/21/07

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Hollow Stem Auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15.0	14.86	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	☐ Flush-Threaded ☐ Other (describe)	from 0 feet to 4.86 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	Schedule 40, 10 Slot	from 4.86 feet to 14.86 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		from ____ feet to ____ feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		from ____ feet to ____ feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		from ____ feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Silica Sand	☐ Yes ☐ No	from 2.50 feet to 14.86 feet

Filter Pack Seal Material and Size: Bentonite	Filter Pack Seal Length:
	from 1.50 feet to 2.50 feet

Surface Seal Material: Groute	Surface Seal Length:
	from 0.50 feet to 1.50 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
12/19/07	☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	6.00

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.50 gallons per minute	0.01 feet	☐ Yes ☐ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☐ Continuous ☐ Intermittent	20	40	☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Clear with petroleum odor	Clear with no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-6	Building 38, NAS Pensacola, FL		12/21/07

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Hollow Stem Auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15.0	14.61	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	☐ Flush-Threaded ☐ Other (describe)	feet from 0 feet to 4.61 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	Schedule 40, 10 Slot	feet from 4.61 feet to 14.61 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		feet from feet to feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		feet from feet to feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
also check: ☐ Permanent ☐ Temporary		feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Silica Sand	☐ Yes ☐ No	feet from 2.50 feet to 14.61 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
Bentonite	feet from 1.50 feet to 2.50 feet

Surface Seal Material:	Surface Seal Length:
Groute	feet from 0.50 feet to 1.50 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
12/19/07	☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	6.00

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.50 gallons per minute	0.01 feet	☐ Yes ☐ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☐ Continuous ☐ Intermittent	20	40	☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Clear with petroleum odor	Clear with no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-7	Building 38, NAS Pensacola, FL		10/1/08

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Hollow Stem Auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15.0	14.49	8	8	2 feet by 2 feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2" PVC	☐ Flush-Threaded ☐ Other (describe)	feet from 0 feet to 4.49 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	Schedule 40, 10 Slot	feet from 4.49 feet to 14.49 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: feet from feet to feet
2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: feet from feet to feet
3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: feet from feet to feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Silica Sand	☐ Yes ☐ No	feet from 2.50 feet to 14.49 feet

Filter Pack Seal Material and Size: Bentonite	Filter Pack Seal Length:
	feet from 1.50 feet to 2.50 feet

Surface Seal Material: Groute	Surface Seal Length:
	feet from 0.50 feet to 1.50 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
10/02/08	☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)	6.00

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
0.50 gallons per minute	0.01 feet	☐ Yes ☐ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☐ Continuous ☐ Intermittent	20	40	☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
Clear with petroleum odor	Clear with no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-8	Building 38, NAS Pensacola, FL		10/1/08

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Hollow Stem Auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15.0	14.61	8	8	2 feet by 2 feet

Riser Diameter and Material: 2" PVC

Riser/Screen Connections: ☐ Flush-Threaded ☐ Other (describe)

Riser Length: ____ feet from 0 feet to 4.61 feet

Screen Diameter and Material: 2" PVC

Screen Slot Size: Schedule 40, 10 Slot

Screen Length: ____ feet from 4.61 feet to 14.61 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: 20/30 Silica Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☐ No

Filter Pack Length: ____ feet from 2.50 feet to 14.61 feet

Filter Pack Seal Material and Size: Bentonite

Filter Pack Seal Length: ____ feet from 1.50 feet to 2.50 feet

Surface Seal Material: Groute

Surface Seal Length: ____ feet from 0.50 feet to 1.50 feet

WELL DEVELOPMENT DATA

Well Development Date: 10/02/08

Well Development Method (check one): ☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☐ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 6.00

Pumping Rate (gallons per minute): 0.50 gallons per minute

Maximum Drawdown of Groundwater During Development (feet): 0.01 feet

Well Purged Dry (check one): ☐ Yes ☐ No

Pumping Condition (check one): ☐ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 20

Development Duration (minutes): 40

Development Water Drummed (check one): ☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development: Clear with no odor

Water Appearance (color and odor) At End of Development: Clear with no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
DMW-1	Building 38, NAS Pensacola, FL		10/1/08

Well Location and Type (check appropriate boxes): ☐ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose: ☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)

Well Install Method: Hollow Stem Auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15.0	30.80	8	8	2 feet by 2 feet

Riser Diameter and Material: 2" PVC

Riser/Screen Connections: ☐ Flush-Threaded ☐ Other (describe)

Riser Length: ____ feet from 0 feet to 25.80 feet

Screen Diameter and Material: 2" PVC

Screen Slot Size: Schedule 40, 10 Slot

Screen Length: ____ feet from 25.80 feet to 30.80 feet

1st Surface Casing Material: also check: ☐ Permanent ☐ Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size: 20/30 Silica Sand

Prepacked Filter Around Screen (check one): ☐ Yes ☐ No

Filter Pack Length: ____ feet from 23.00 feet to 30.80 feet

Filter Pack Seal Material and Size: Bentonite

Filter Pack Seal Length: ____ feet from 22.00 feet to 23.00 feet

Surface Seal Material: Groute

Surface Seal Length: ____ feet from 0.50 feet to 23.00 feet

WELL DEVELOPMENT DATA

Well Development Date: 10/02/08

Well Development Method (check one): ☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check): ☐ Centrifugal ☐ Peristaltic ☐ Submersible ☐ Other (describe)

Depth to Groundwater (before developing in feet): 6.00

Pumping Rate (gallons per minute): 0.50 gallons per minute

Maximum Drawdown of Groundwater During Development (feet): 0.01 feet

Well Purged Dry (check one): ☐ Yes ☐ No

Pumping Condition (check one): ☐ Continuous ☐ Intermittent

Total Development Water Removed (gallons): 40

Development Duration (minutes): 80

Development Water Drummed (check one): ☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development: Clear with petroleum odor

Water Appearance (color and odor) At End of Development: Clear with no odor

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

APPENDIX E

Groundwater Sampling Logs

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: 38	
WELL NO: MW-1	SAMPLE ID: MW-1	DATE: 1/21/08

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 14.70	STATIC DEPTH TO WATER (ft): 6.02	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (14.70 – 6.02) X 0.16 = 1.40

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 14:55	PURGE ENDED AT: 15:14	TOTAL VOL. PURGED (gal): 1.93

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (^{O}C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
15:08	1.30	1.30	0.11	6.05	7.19	22.5	140	0.30	5.34	Clear	None
15:11	0.33	1.63	0.11	6.07	7.16	22.5	136	0.31	4.81	Clear	None
15:14	0.33	1.93	0.11	6.08	7.15	22.5	136	0.31	4.81	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Mills / AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 15:15	SAMPLING ENDED AT: 15:25
FIELD DECONTAMINATION: Y **N**	FIELD-FILTERED: Y **N**	DUPLICATE: Y **N**

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1	CH	40 mL	HCL/ Ice	Pre-preserved		8260
2	AG	1 L	Ice	--		8270
3	AG	1 l	H2SO4	Pre-preserved		FL-PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: Building 38	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 1/21/08

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 14.41	STATIC DEPTH TO WATER (ft): 5.48	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (14.41 – 5.48) X 0.16 = 1.45

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 14:25	PURGE ENDED AT: 14:50	TOTAL VOL. PURGED (gal): 2.53

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (^{O}C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
14:40	1.45	1.45	0.11	5.53	6.91	18.1	130	0.93	5.70	Clear	None
14:43	0.36	1.81	0.11	5.53	7.38	18.1	133	0.93	3.75	Clear	None
14:46	0.36	2.17	0.11	5.52	7.39	18.1	133	0.94	3.75	Clear	None
14:49	0.36	2.53	0.11	5.52	7.37	18.1	133	0.94	3.70	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / Curtis Mills AFFILIATION: AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 14:51	SAMPLING ENDED AT: 14:53
FIELD DECONTAMINATION: Y **N**	FIELD-FILTERED: Y **N**	DUPLICATE: Y **N**

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1	CH	40 mL	HCL/ Ice	Pre-preserved		8260
2	AG	1 L	Ice	--		8270
3	AG	1 l	H2SO4	Pre-preserved		FL-PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: Building 782	
WELL NO: MW-3	SAMPLE ID: MW-3	DATE: 1/21/08

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 14.02	STATIC DEPTH TO WATER (ft): 4.58	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (14.02 – 4.58) X 0.16 = 1.50

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 15:35	PURGE ENDED AT: 15:56	TOTAL VOL. PURGED (gal): 2.24

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (^{O}C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
15:50	1.50	1.50	0.11	4.59	7.61	21.4	349	0.35	1.89	Clear	None
15:53	0.37	1.87	0.11	4.59	7.62	21.4	348	0.35	1.80	Clear	None
15:56	0.37	2.24	0.11	4.58	7.60	21.4	348	0.34	1.61	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / Curtis Mills AFFILIATION: AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 15:57	SAMPLING ENDED AT: 16:05
FIELD DECONTAMINATION: Y **N**	FIELD-FILTERED: Y **N**	DUPLICATE: Y **N**

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1	CH	40 mL	HCL/ Ice	Pre-preserved		8260
2	AG	1 L	Ice	--		8270
3	AG	1 l	H2SO4	Pre-preserved		FL-PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: Building 38	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 1/21/08

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 14.35	STATIC DEPTH TO WATER (ft): 5.37	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (14.35 – 5.37) X 0.16 = 1.45

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 13:54	PURGE ENDED AT: 14:21	TOTAL VOL. PURGED (gal): 2.53

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (^{O}C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
14:08	1.45	1.45	0.11	5.37	7.35	21.7	226	1.31	5.00	Clear	None
14:11	0.36	1.81	0.11	538	7.36	21.9	198	1.30	5.50	Clear	None
14:14	0.36	2.17	0.11	5.38	7.34	21.9	198	1.28	5.50	Clear	None
14:17	0.36	2.53	0.11	5.38	7.32	21.9	198	1.31	5.50	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / Curtis Mills AFFILIATION: AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 14:22	SAMPLING ENDED AT: 1432
FIELD DECONTAMINATION: Y **N**	FIELD-FILTERED: Y **N**	DUPLICATE: Y **N**

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1	CH	40 mL	HCL/ Ice	Pre-preserved		8260
2	AG	1 L	Ice	--		8270
3	AG	1 l	H2SO4	Pre-preserved		FL-PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: Building 782	
WELL NO: MW-5	SAMPLE ID: MW-5	DATE: 1/21/08

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 14.86	STATIC DEPTH TO WATER (ft): 4.77	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (14.86 – 4.77) X 0.16 = 1.60

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 13:15	PURGE ENDED AT: 13:37	TOTAL VOL. PURGED (gal): 2.40

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (^{O}C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
13:30	1.60	1.60	0.11	4.88	7.28	22.7	154	0.51	4.30	Clear	None
13:33	0.40	2.00	0.11	4.89	7.29	22.7	154	0.49	4.80	Clear	None
13:36	0.40	2.40	0.11	4.90	7.29	22.7	153	0.50	5.00	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / Curtis Mills AFFILIATION: AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 13:38	SAMPLING ENDED AT: 13:45
FIELD DECONTAMINATION: Y **N**	FIELD-FILTERED: Y **N**	DUPLICATE: Y **N**

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1	CH	40 mL	HCL/ Ice	Pre-preserved		8260
2	AG	1 L	Ice	--		8270
3	AG	1 l	H2SO4	Pre-preserved		FL-PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEA R GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: Building 38	
WELL NO: MW-6	SAMPLE ID: MW-6	DATE: 1/18/08

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 14.61	STATIC DEPTH TO WATER (ft): 4.52	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (14.61 – 4.52) X 0.16 = 1.60

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 12:30	PURGE ENDED AT: 12:55	TOTAL VOL. PURGED (gal): 2.80

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (^{O}C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
12:46	1.60	1.60	0.12	4.54	7.49	21.0	150	1.45	2.60	Clear	None
12:49	0.40	2.00	0.12	4.55	7.48	21.1	151	1.44	2.70	Clear	None
12:52	0.40	2.40	0.12	4.55	7.49	21.1	151	1.43	2.90	Clear	None
12:55	0.40	2.80	0.12	4.56	7.49	21.1	151	1.41	2.60	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / Curtis Mills AFFILIATION: AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 12:57	SAMPLING ENDED AT: 13:05
FIELD DECONTAMINATION: Y **N**	FIELD-FILTERED: Y **N**	DUPLICATE: Y **N**

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1	CH	40 mL	HCL/ Ice	Pre-preserved		8260
2	AG	1 L	Ice	--		8270
3	AG	1 l	H2SO4	Pre-preserved		FL-PRO

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Building 38	SITE LOCATION: NAS Pensacola	
WELL NO:DW-1	SAMPLE ID:DW-1	DATE:10/14/2008

PURGING DATA

WELL DIAMETER (inches):2	TUBING DIAMETER (inches):0.25	WELL SCREEN INTERVAL DEPTH: 25.80 feet to 30.80 feet	STATIC DEPTH TO WATER (feet): 3.30	PURGE PUMP TYPE OR BAILER: peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (30.80 feet – 3.30 feet) X 0.16 gallons/foot = 4.4 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	PURGING INITIATED AT: 1405	PURGING ENDED AT:1431	TOTAL VOLUME PURGED (gallons): 5.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (^{O}C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1425	4.4	4.4	0.2	3.90	7.64	26.1	12.5	0.27	4.51	clear	petro
1428	0.6	5.0	0.2	3.93	7.63	26.2	12.5	0.28	3.75	clear	petro
1431	0.6	5.6	0.2	3.95	7.63	26.2	12.5	0.28	2.24	clear	petro

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Mills	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1432	SAMPLING ENDED AT: 1457
PUMP OR TUBING DEPTH IN WELL (feet):26.5	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y **N**	FIELD-FILTERED: Y **N** FILTER SIZE: _____ µm Filtration Equipment Type: _____	DUPLICATE: Y **N**	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 ^{o}C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Building 38	SITE LOCATION: NAS Pensacola	
WELL NO:MW-7	SAMPLE ID:MW-7	DATE:10/14/2008

PURGING DATA

WELL DIAMETER (inches):2	TUBING DIAMETER (inches):0.25	WELL SCREEN INTERVAL DEPTH: 4.49 feet to 14.49 feet	STATIC DEPTH TO WATER (feet): 3.17	PURGE PUMP TYPE OR BAILER: peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (14.49 feet – 3.17 feet) X 0.16 gallons/foot = 1.8 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):4.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 1445	PURGING ENDED AT:1501	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (^{O}C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1455	1.5	1.5	0.2	3.20	7.52	26.9	12.5	0.15	19.9	clear	petro
1458	0.6	2.0	0.2	3.20	7.51	26.9	12.6	0.17	18.6	clear	petro
1501	0.6	2.6	0.2	3.21	7.51	26.9	12.6	0.18	14.3	clear	petro

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Mills	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 1502	SAMPLING ENDED AT: 1510
PUMP OR TUBING DEPTH IN WELL (feet):6.5	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: _____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 ^{o}C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Building 38	SITE LOCATION: NAS Pensacola	
WELL NO:MW-8	SAMPLE ID:MW-8	DATE:10/14/2008

PURGING DATA

WELL DIAMETER (inches):2	TUBING DIAMETER (inches):0.25	WELL SCREEN INTERVAL DEPTH: 1.29 feet to 11.29 feet	STATIC DEPTH TO WATER (feet): 3.35	PURGE PUMP TYPE OR BAILER: peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (11.29 feet – 3.35 feet) X 0.16 gallons/foot = 1.2 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 1405	PURGING ENDED AT:1431	TOTAL VOLUME PURGED (gallons): 5.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (^{O}C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1328	1.2	1.2	0.15	3.38	7.43	28.2	5.47	0.01	17.7	clear	petro
1331	0.4	1.65	0.15	3.40	7.48	28.2	55.68	0.08	12.9	clear	petro
1334	0.45	2.1	0.15	3.41	7.51	28.2	5.59	0.09	8.76	clear	petro

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Mills	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1335	SAMPLING ENDED AT: 1340
PUMP OR TUBING DEPTH IN WELL (feet):4.5	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: _____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 ^{o}C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

APPENDIX F

Groundwater Analytical Report
And
Chain-of-Custody’s

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

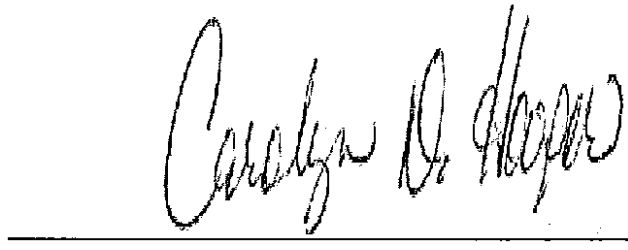
ANALYTICAL REPORT

Job Number: 400-27977-1

Job Description: NAS Pensacola - Bldg. 38

For:
Aerostar Environmental Services, Inc.
4640 S. Carrolltan Avenue
New Orleans, LA 70119

Attention: Emilie Wien



Carolyn Hooper
Project Manager I
carolyn.hooper@testamericainc.com
01/29/2008

cc: Ms. Dawn Hudson
Mr. Danny Miller
Mr. Carl D Williams

TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), California (2510), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250507), New Jersey (FL006), New York (11503), North Carolina (314), North Dakota (R-108), Oklahoma (9810), Pennsylvania (68-00467), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-08-TX), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

SAMPLE SUMMARY

Client: Aerostar Environmental Services, Inc. Job Number: 400-27977-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-27977-1	MW-6	Water	01/21/2008 1257	01/22/2008 1430
400-27977-2	MW-5	Water	01/21/2008 1337	01/22/2008 1430
400-27977-3	MW-4	Water	01/21/2008 1422	01/22/2008 1430
400-27977-4	MW-2	Water	01/21/2008 1451	01/22/2008 1430
400-27977-5	MW-1	Water	01/21/2008 1515	01/22/2008 1430
400-27977-6	MW-3	Water	01/21/2008 1557	01/22/2008 1430

EXECUTIVE SUMMARY - Detections

Client: Aerostar Environmental Services, Inc. Job Number: 400-27977-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
400-27977-3	**MW-4**					
Total Petroleum Hydrocarbons (C8-C40)		71	I	99	ug/L	FL-PRO
400-27977-5	**MW-1**					
Total Petroleum Hydrocarbons (C8-C40)		100	I	110	ug/L	FL-PRO
400-27977-6	**MW-3**					
1-Methylnaphthalene		1.6	I	9.5	ug/L	8270C
2-Methylnaphthalene		2.8	I	9.5	ug/L	8270C
Benzene		6.1		1.0	ug/L	8021B
Ethylbenzene		2.3		2.0	ug/L	8021B
Xylenes, Total		4.6		2.0	ug/L	8021B
Total Petroleum Hydrocarbons (C8-C40)		250		100	ug/L	FL-PRO

SAMPLE RESULTS

Emilie Wien
Aerostar Environmental Services, Inc.
4640 S. Carrollton Avenue
New Orleans, LA 70119

Job Number: 400-27977-1

Client Sample ID: MW-6
Lab Sample ID: 400-27977-1

Date Sampled: 01/21/2008 1257
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		01/28/2008 1713	
Prep Method: 3520C			Date Prepared:		01/23/2008 0743	
Acenaphthene	0.28	U	ug/L	0.28	9.3	1.0
Acenaphthylene	0.28	U	ug/L	0.28	9.3	1.0
Anthracene	0.28	U	ug/L	0.28	9.3	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Chrysene	0.28	U	ug/L	0.28	9.3	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.3	1.0
Fluoranthene	0.28	U	ug/L	0.28	9.3	1.0
Fluorene	0.28	U	ug/L	0.28	9.3	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Naphthalene	0.56	U	ug/L	0.56	9.3	1.0
Phenanthrene	0.56	U	ug/L	0.56	9.3	1.0
Pyrene	0.56	U	ug/L	0.56	9.3	1.0
1-Methylnaphthalene	0.56	U	ug/L	0.56	9.3	1.0
2-Methylnaphthalene	0.56	U	ug/L	0.56	9.3	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	57		%		40 - 100	
Nitrobenzene-d5	53		%		33 - 92	
Terphenyl-d14	93		%		58 - 114	
Method: 8021B			Date Analyzed:		01/23/2008 1739	
Prep Method: 5030B			Date Prepared:		01/23/2008 1739	
Benzene	0.40	U	ug/L	0.40	1.0	1.0
Toluene	1.0	U	ug/L	1.0	5.0	1.0
Ethylbenzene	1.0	U	ug/L	1.0	2.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	2.0	1.0
Xylenes, Total	1.0	U	ug/L	1.0	2.0	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (pid)	94		%		76 - 124	
Method: FL-PRO			Date Analyzed:		01/24/2008 0837	
Prep Method: 3520C			Date Prepared:		01/23/2008 0748	
Total Petroleum Hydrocarbons (C8-C40)	41	U	ug/L	41	120	1.0
Surrogate					Acceptance Limits	
n-C39	13	J1	%		20 - 176	

Emilie Wien
Aerostar Environmental Services, Inc.
4640 S. Carrollton Avenue
New Orleans, LA 70119

Job Number: 400-27977-1

Client Sample ID: MW-6
Lab Sample ID: 400-27977-1

Date Sampled: 01/21/2008 1257
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Surrogate				Acceptance Limits	
o-Terphenyl	79	%		49 - 143	

Emilie Wien
Aerostar Environmental Services, Inc.
4640 S. Carrolltan Avenue
New Orleans, LA 70119

Job Number: 400-27977-1

Client Sample ID: MW-5
Lab Sample ID: 400-27977-2

Date Sampled: 01/21/2008 1337
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		01/28/2008 1740	
Prep Method: 3520C			Date Prepared:		01/23/2008 0743	
Acenaphthene	0.28	U	ug/L	0.28	9.3	1.0
Acenaphthylene	0.28	U	ug/L	0.28	9.3	1.0
Anthracene	0.28	U	ug/L	0.28	9.3	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Chrysene	0.28	U	ug/L	0.28	9.3	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.3	1.0
Fluoranthene	0.28	U	ug/L	0.28	9.3	1.0
Fluorene	0.28	U	ug/L	0.28	9.3	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Naphthalene	0.56	U	ug/L	0.56	9.3	1.0
Phenanthrene	0.56	U	ug/L	0.56	9.3	1.0
Pyrene	0.56	U	ug/L	0.56	9.3	1.0
1-Methylnaphthalene	0.56	U	ug/L	0.56	9.3	1.0
2-Methylnaphthalene	0.56	U	ug/L	0.56	9.3	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	63		%		40 - 100	
Nitrobenzene-d5	58		%		33 - 92	
Terphenyl-d14	105		%		58 - 114	
Method: 8021B			Date Analyzed:		01/23/2008 1805	
Prep Method: 5030B			Date Prepared:		01/23/2008 1805	
Benzene	0.40	U	ug/L	0.40	1.0	1.0
Toluene	1.0	U	ug/L	1.0	5.0	1.0
Ethylbenzene	1.0	U	ug/L	1.0	2.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	2.0	1.0
Xylenes, Total	1.0	U	ug/L	1.0	2.0	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (pid)	93		%		76 - 124	
Method: FL-PRO			Date Analyzed:		01/24/2008 0842	
Prep Method: 3520C			Date Prepared:		01/23/2008 0748	
Total Petroleum Hydrocarbons (C8-C40)	38	U	ug/L	38	110	1.0
Surrogate					Acceptance Limits	
n-C39	19	J1	%		20 - 176	

Emilie Wien
Aerostar Environmental Services, Inc.
4640 S. Carrollton Avenue
New Orleans, LA 70119

Job Number: 400-27977-1

Client Sample ID: MW-5
Lab Sample ID: 400-27977-2

Date Sampled: 01/21/2008 1337
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Surrogate				Acceptance Limits	
o-Terphenyl	90	%		49 - 143	

Emilie Wien
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New Orleans, LA 70119

Job Number: 400-27977-1

Client Sample ID: MW-4
Lab Sample ID: 400-27977-3

Date Sampled: 01/21/2008 1422
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		01/28/2008 1808	
Prep Method: 3520C			Date Prepared:		01/23/2008 0743	
Acenaphthene	0.29	U	ug/L	0.29	9.7	1.0
Acenaphthylene	0.29	U	ug/L	0.29	9.7	1.0
Anthracene	0.29	U	ug/L	0.29	9.7	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.7	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.7	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.7	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.7	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.7	1.0
Chrysene	0.29	U	ug/L	0.29	9.7	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.7	1.0
Fluoranthene	0.29	U	ug/L	0.29	9.7	1.0
Fluorene	0.29	U	ug/L	0.29	9.7	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.7	1.0
Naphthalene	0.58	U	ug/L	0.58	9.7	1.0
Phenanthrene	0.58	U	ug/L	0.58	9.7	1.0
Pyrene	0.58	U	ug/L	0.58	9.7	1.0
1-Methylnaphthalene	0.58	U	ug/L	0.58	9.7	1.0
2-Methylnaphthalene	0.58	U	ug/L	0.58	9.7	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	50		%		40 - 100	
Nitrobenzene-d5	46		%		33 - 92	
Terphenyl-d14	87		%		58 - 114	
Method: 8021B			Date Analyzed:		01/23/2008 1831	
Prep Method: 5030B			Date Prepared:		01/23/2008 1831	
Benzene	0.40	U	ug/L	0.40	1.0	1.0
Toluene	1.0	U	ug/L	1.0	5.0	1.0
Ethylbenzene	1.0	U	ug/L	1.0	2.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	2.0	1.0
Xylenes, Total	1.0	U	ug/L	1.0	2.0	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (pid)	94		%		76 - 124	
Method: FL-PRO			Date Analyzed:		01/24/2008 0847	
Prep Method: 3520C			Date Prepared:		01/23/2008 0748	
Total Petroleum Hydrocarbons (C8-C40)	71	I	ug/L	34	99	1.0
Surrogate					Acceptance Limits	
n-C39	17	J1	%		20 - 176	

Emilie Wien
Aerostar Environmental Services, Inc.
4640 S. Carrollton Avenue
New Orleans, LA 70119

Job Number: 400-27977-1

Client Sample ID: MW-4
Lab Sample ID: 400-27977-3

Date Sampled: 01/21/2008 1422
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Surrogate				Acceptance Limits	
o-Terphenyl	77	%		49 - 143	

Emilie Wien
Aerostar Environmental Services, Inc.
4640 S. Carrollton Avenue
New Orleans, LA 70119

Job Number: 400-27977-1

Client Sample ID: MW-2
Lab Sample ID: 400-27977-4

Date Sampled: 01/21/2008 1451
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		01/28/2008 1836	
Prep Method: 3520C			Date Prepared:		01/23/2008 0743	
Acenaphthene	0.28	U	ug/L	0.28	9.4	1.0
Acenaphthylene	0.28	U	ug/L	0.28	9.4	1.0
Anthracene	0.28	U	ug/L	0.28	9.4	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.4	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.4	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.4	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.4	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.4	1.0
Chrysene	0.28	U	ug/L	0.28	9.4	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.4	1.0
Fluoranthene	0.28	U	ug/L	0.28	9.4	1.0
Fluorene	0.28	U	ug/L	0.28	9.4	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.4	1.0
Naphthalene	0.57	U	ug/L	0.57	9.4	1.0
Phenanthrene	0.57	U	ug/L	0.57	9.4	1.0
Pyrene	0.57	U	ug/L	0.57	9.4	1.0
1-Methylnaphthalene	0.57	U	ug/L	0.57	9.4	1.0
2-Methylnaphthalene	0.57	U	ug/L	0.57	9.4	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	77		%		40 - 100	
Nitrobenzene-d5	70		%		33 - 92	
Terphenyl-d14	110		%		58 - 114	
Method: 8021B			Date Analyzed:		01/23/2008 1857	
Prep Method: 5030B			Date Prepared:		01/23/2008 1857	
Benzene	0.40	U	ug/L	0.40	1.0	1.0
Toluene	1.0	U	ug/L	1.0	5.0	1.0
Ethylbenzene	1.0	U	ug/L	1.0	2.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	2.0	1.0
Xylenes, Total	1.0	U	ug/L	1.0	2.0	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (pid)	94		%		76 - 124	
Method: FL-PRO			Date Analyzed:		01/24/2008 0851	
Prep Method: 3520C			Date Prepared:		01/23/2008 0748	
Total Petroleum Hydrocarbons (C8-C40)	38	U	ug/L	38	110	1.0
Surrogate					Acceptance Limits	
n-C39	19	J1	%		20 - 176	

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Job Number: 400-27977-1

Client Sample ID: MW-2
Lab Sample ID: 400-27977-4

Date Sampled: 01/21/2008 1451
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Surrogate				Acceptance Limits	
o-Terphenyl	79	%		49 - 143	

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Job Number: 400-27977-1

Client Sample ID: MW-1
Lab Sample ID: 400-27977-5

Date Sampled: 01/21/2008 1515
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		01/28/2008 1904	
Prep Method: 3520C			Date Prepared:		01/23/2008 0743	
Acenaphthene	0.28	U	ug/L	0.28	9.3	1.0
Acenaphthylene	0.28	U	ug/L	0.28	9.3	1.0
Anthracene	0.28	U	ug/L	0.28	9.3	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.3	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.3	1.0
Chrysene	0.28	U	ug/L	0.28	9.3	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.3	1.0
Fluoranthene	0.28	U	ug/L	0.28	9.3	1.0
Fluorene	0.28	U	ug/L	0.28	9.3	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.3	1.0
Naphthalene	0.56	U	ug/L	0.56	9.3	1.0
Phenanthrene	0.56	U	ug/L	0.56	9.3	1.0
Pyrene	0.56	U	ug/L	0.56	9.3	1.0
1-Methylnaphthalene	0.56	U	ug/L	0.56	9.3	1.0
2-Methylnaphthalene	0.56	U	ug/L	0.56	9.3	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	64		%		40 - 100	
Nitrobenzene-d5	60		%		33 - 92	
Terphenyl-d14	95		%		58 - 114	
Method: 8021B			Date Analyzed:		01/25/2008 1537	
Prep Method: 5030B			Date Prepared:		01/25/2008 1537	
Benzene	0.40	U	ug/L	0.40	1.0	1.0
Toluene	1.0	U	ug/L	1.0	5.0	1.0
Ethylbenzene	1.0	U	ug/L	1.0	2.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	2.0	1.0
Xylenes, Total	1.0	U	ug/L	1.0	2.0	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (pid)	98		%		76 - 124	
Method: FL-PRO			Date Analyzed:		01/24/2008 0856	
Prep Method: 3520C			Date Prepared:		01/23/2008 0748	
Total Petroleum Hydrocarbons (C8-C40)	100	I	ug/L	38	110	1.0
Surrogate					Acceptance Limits	
n-C39	17	J1	%		20 - 176	

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Job Number: 400-27977-1

Client Sample ID: MW-1
Lab Sample ID: 400-27977-5

Date Sampled: 01/21/2008 1515
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Surrogate				Acceptance Limits	
o-Terphenyl	78	%		49 - 143	

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Job Number: 400-27977-1

Client Sample ID: MW-3
Lab Sample ID: 400-27977-6

Date Sampled: 01/21/2008 1557
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	PQL	Dilution
Method: 8270C			Date Analyzed:		01/28/2008 1931	
Prep Method: 3520C			Date Prepared:		01/23/2008 0743	
Acenaphthene	0.29	U	ug/L	0.29	9.5	1.0
Acenaphthylene	0.29	U	ug/L	0.29	9.5	1.0
Anthracene	0.29	U	ug/L	0.29	9.5	1.0
Benzo[a]anthracene	0.19	U	ug/L	0.19	9.5	1.0
Benzo[a]pyrene	0.19	U	ug/L	0.19	9.5	1.0
Benzo[b]fluoranthene	0.19	U	ug/L	0.19	9.5	1.0
Benzo[g,h,i]perylene	0.19	U	ug/L	0.19	9.5	1.0
Benzo[k]fluoranthene	0.19	U	ug/L	0.19	9.5	1.0
Chrysene	0.29	U	ug/L	0.29	9.5	1.0
Dibenz(a,h)anthracene	0.19	U	ug/L	0.19	9.5	1.0
Fluoranthene	0.29	U	ug/L	0.29	9.5	1.0
Fluorene	0.29	U	ug/L	0.29	9.5	1.0
Indeno[1,2,3-cd]pyrene	0.19	U	ug/L	0.19	9.5	1.0
Naphthalene	0.57	U	ug/L	0.57	9.5	1.0
Phenanthrene	0.57	U	ug/L	0.57	9.5	1.0
Pyrene	0.57	U	ug/L	0.57	9.5	1.0
1-Methylnaphthalene	1.6	I	ug/L	0.57	9.5	1.0
2-Methylnaphthalene	2.8	I	ug/L	0.57	9.5	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	56		%		40 - 100	
Nitrobenzene-d5	50		%		33 - 92	
Terphenyl-d14	97		%		58 - 114	
Method: 8021B			Date Analyzed:		01/23/2008 2041	
Prep Method: 5030B			Date Prepared:		01/23/2008 2041	
Benzene	6.1		ug/L	0.40	1.0	1.0
Toluene	1.0	U	ug/L	1.0	5.0	1.0
Ethylbenzene	2.3		ug/L	1.0	2.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	2.0	1.0
Xylenes, Total	4.6		ug/L	1.0	2.0	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (pid)	79		%		76 - 124	
Method: FL-PRO			Date Analyzed:		01/24/2008 0901	
Prep Method: 3520C			Date Prepared:		01/23/2008 0748	
Total Petroleum Hydrocarbons (C8-C40)	250		ug/L	36	100	1.0
Surrogate					Acceptance Limits	
n-C39	21		%		20 - 176	

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Job Number: 400-27977-1

Client Sample ID: MW-3
Lab Sample ID: 400-27977-6

Date Sampled: 01/21/2008 1557
Date Received: 01/22/2008 1430
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Surrogate				Acceptance Limits	
o-Terphenyl	92	%		49 - 143	

DATA REPORTING QUALIFIERS

Client: Aerostar Environmental Services, Inc. Job Number: 400-27977-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC VOA		
	U	Indicates that the compound was analyzed for but not detected.
GC Semi VOA		
	J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Job Narrative
400-J27977-1

Receipt
All samples were received in good condition within temperature requirements.

Organic Prep
Method(s) 3520C: Batch 62960 / 8270 Insufficient sample volume was provided to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses.

Method(s) 3520C: Batch 62962 / FLPRO Insufficient sample volume was provided to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses.

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: Aerostar Environmental Services, Inc. Job Number: 400-27977-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Aromatic and Halogenated VOCs by Gas Chromatography using PID or ELCD	TAL PEN	SW846 8021B	
Purge-and-Trap	TAL PEN		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL PEN	SW846 8270C	
Continuous Liquid-Liquid Extraction	TAL PEN		SW846 3520C
Florida Method for Determination of Petroleum Range Organics by GC/FID	TAL PEN	FL-DEP FL-PRO	
Continuous Liquid-Liquid Extraction	TAL PEN		SW846 3520C

Lab References:

TAL PEN = TestAmerica Pensacola

Method References:

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Aerostar Environmental Services, Inc. Job Number: 400-27977-1

Method	Analyst	Analyst ID
SW846 8270C	Schumann, Jane	JS
SW846 8021B	Arbuckle, Mardy	MA
FL-DEP FL-PRO	Ayers, Kim	KA

QUALITY CONTROL RESULTS

Client: Aerostar Environmental Services, Inc. Job Number: 400-27977-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 400-62960					
LCS 400-62960/8-A	Lab Control Spike	T	Water	3520C	
MB 400-62960/9-A	Method Blank	T	Water	3520C	
400-27977-1	MW-6	T	Water	3520C	
400-27977-2	MW-5	T	Water	3520C	
400-27977-3	MW-4	T	Water	3520C	
400-27977-4	MW-2	T	Water	3520C	
400-27977-5	MW-1	T	Water	3520C	
400-27977-6	MW-3	T	Water	3520C	
Analysis Batch:400-63293					
LCS 400-62960/8-A	Lab Control Spike	T	Water	8270C	400-62960
MB 400-62960/9-A	Method Blank	T	Water	8270C	400-62960
400-27977-1	MW-6	T	Water	8270C	400-62960
400-27977-2	MW-5	T	Water	8270C	400-62960
400-27977-3	MW-4	T	Water	8270C	400-62960
400-27977-4	MW-2	T	Water	8270C	400-62960
400-27977-5	MW-1	T	Water	8270C	400-62960
400-27977-6	MW-3	T	Water	8270C	400-62960

Report Basis
T = Total

GC VOA					
Analysis Batch:400-63080					
LCS 400-63080/1	Lab Control Spike	T	Water	8021B	
MB 400-63080/2	Method Blank	T	Water	8021B	
400-27977-1	MW-6	T	Water	8021B	
400-27977-2	MW-5	T	Water	8021B	
400-27977-2MS	Matrix Spike	T	Water	8021B	
400-27977-2MSD	Matrix Spike Duplicate	T	Water	8021B	
400-27977-3	MW-4	T	Water	8021B	
400-27977-4	MW-2	T	Water	8021B	
400-27977-6	MW-3	T	Water	8021B	
Analysis Batch:400-63130					
LCS 400-63130/1	Lab Control Spike	T	Water	8021B	
MB 400-63130/2	Method Blank	T	Water	8021B	
400-27977-5	MW-1	T	Water	8021B	
400-28040-B-1 MS	Matrix Spike	T	Water	8021B	
400-28040-C-1 MSD	Matrix Spike Duplicate	T	Water	8021B	

Report Basis
T = Total

Client: Aerostar Environmental Services, Inc. Job Number: 400-27977-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 400-62962					
LCS 400-62962/7-A	Lab Control Spike	T	Water	3520C	
MB 400-62962/8-A	Method Blank	T	Water	3520C	
400-27977-1	MW-6	T	Water	3520C	
400-27977-2	MW-5	T	Water	3520C	
400-27977-3	MW-4	T	Water	3520C	
400-27977-4	MW-2	T	Water	3520C	
400-27977-5	MW-1	T	Water	3520C	
400-27977-6	MW-3	T	Water	3520C	
Analysis Batch:400-63083					
LCS 400-62962/7-A	Lab Control Spike	T	Water	FL-PRO	400-62962
MB 400-62962/8-A	Method Blank	T	Water	FL-PRO	400-62962
400-27977-1	MW-6	T	Water	FL-PRO	400-62962
400-27977-2	MW-5	T	Water	FL-PRO	400-62962
400-27977-3	MW-4	T	Water	FL-PRO	400-62962
400-27977-4	MW-2	T	Water	FL-PRO	400-62962
400-27977-5	MW-1	T	Water	FL-PRO	400-62962
400-27977-6	MW-3	T	Water	FL-PRO	400-62962

Report Basis
T = Total

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27977-1

Surrogate Recovery Report

8021B Aromatic and Halogenated VOCs by Gas Chromatography using PID or ELCD

Client Matrix: Water

Lab Sample ID	Client Sample ID	TFT1 %Rec
400-27977-1	MW-6	94
400-27977-2	MW-5	93
400-27977-3	MW-4	94
400-27977-4	MW-2	94
400-27977-5	MW-1	98
400-27977-6	MW-3	79
MB 400-63080/2		94
MB 400-63130/2		98
LCS 400-63080/1		92
LCS 400-63130/1		95
400-27977-2 MS	MW-5 MS	94
400-28040-B-1 MS		91
400-27977-2 MSD	MW-5 MSD	94
400-28040-C-1 MSD		91

Surrogate	Acceptance Limits
TFT = a,a,a-Trifluorotoluene (pid)	76-124

Client: Aerostar Environmental Services, Inc. Job Number: 400-27977-1

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	FBP %Rec	NBZ %Rec	TPH %Rec
400-27977-1	MW-6	57	53	93
400-27977-2	MW-5	63	58	105
400-27977-3	MW-4	50	46	87
400-27977-4	MW-2	77	70	110
400-27977-5	MW-1	64	60	95
400-27977-6	MW-3	56	50	97
MB 400-62960/9-A		64	60	91
LCS 400-62960/8-A		82	75	90

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl	40-100
NBZ = Nitrobenzene-d5	33-92
TPH = Terphenyl-d14	58-114

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27977-1

Surrogate Recovery Report

FL-PRO Florida Method for Determination of Petroleum Range Organics by GC/FID

Client Matrix: Water

Lab Sample ID	Client Sample ID	C39 %Rec	OTPH %Rec
400-27977-1	MW-6	13J1	79
400-27977-2	MW-5	19J1	90
400-27977-3	MW-4	17J1	77
400-27977-4	MW-2	19J1	79
400-27977-5	MW-1	17J1	78
400-27977-6	MW-3	21	92
MB 400-62962/8-A		12J1	77
LCS 400-62962/7-A		29	93

Surrogate	Acceptance Limits
C39 = n-C39	20-176
OTPH = o-Terphenyl	49-143

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27977-1

Method Blank - Batch: 400-62960

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 400-62960/9-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/28/2008 1617
Date Prepared: 01/23/2008 0743

Analysis Batch: 400-63293
Prep Batch: 400-62960
Units: ug/L

Instrument ID: GC/MSD
Lab File ID: MB62960W.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Result	Qual	MDL	PQL
Acenaphthene	0.30	U	0.30	10
Acenaphthylene	0.30	U	0.30	10
Anthracene	0.30	U	0.30	10
Benzo[a]anthracene	0.20	U	0.20	10
Benzo[a]pyrene	0.20	U	0.20	10
Benzo[b]fluoranthene	0.20	U	0.20	10
Benzo[g,h,i]perylene	0.20	U	0.20	10
Benzo[k]fluoranthene	0.20	U	0.20	10
Chrysene	0.30	U	0.30	10
Dibenz(a,h)anthracene	0.20	U	0.20	10
Fluoranthene	0.30	U	0.30	10
Fluorene	0.30	U	0.30	10
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	10
Naphthalene	0.60	U	0.60	10
Phenanthrene	0.60	U	0.60	10
Pyrene	0.60	U	0.60	10
1-Methylnaphthalene	0.60	U	0.60	10
2-Methylnaphthalene	0.60	U	0.60	10

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	64	40 - 100
Nitrobenzene-d5	60	33 - 92
Terphenyl-d14	91	58 - 114

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27977-1

Lab Control Spike - Batch: 400-62960

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 400-62960/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/28/2008 1645
Date Prepared: 01/23/2008 0743

Analysis Batch: 400-63293
Prep Batch: 400-62960
Units: ug/L

Instrument ID: GC/MSD
Lab File ID: LC62960W.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	50.0	38.8	78	57 - 120	
Acenaphthylene	50.0	39.7	79	59 - 126	
Anthracene	50.0	37.6	75	66 - 112	
Benzo[a]anthracene	50.0	35.8	72	65 - 119	
Benzo[a]pyrene	50.0	31.4	63	62 - 113	
Benzo[b]fluoranthene	50.0	30.8	62	59 - 112	
Benzo[g,h,i]perylene	50.0	34.5	69	55 - 119	
Benzo[k]fluoranthene	50.0	35.3	71	64 - 132	
Chrysene	50.0	37.1	74	65 - 121	
Dibenz(a,h)anthracene	50.0	46.0	92	26 - 183	
Fluoranthene	50.0	41.7	83	70 - 121	
Fluorene	50.0	42.3	85	66 - 120	
Indeno[1,2,3-cd]pyrene	50.0	34.6	69	57 - 116	
Naphthalene	50.0	35.1	70	45 - 114	
Phenanthrene	50.0	38.3	77	66 - 121	
Pyrene	50.0	38.2	76	64 - 124	
1-Methylnaphthalene	50.0	39.9	80	51 - 121	
2-Methylnaphthalene	50.0	37.2	74	51 - 119	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	82	40 - 100
Nitrobenzene-d5	75	33 - 92
Terphenyl-d14	90	58 - 114

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27977-1

Method Blank - Batch: 400-63080

Method: 8021B
Preparation: 5030B

Lab Sample ID: MB 400-63080/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/23/2008 0704
Date Prepared: 01/23/2008 0704

Analysis Batch: 400-63080
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/PID
Lab File ID: W012249.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
Benzene	0.40	U	0.40	1.0
Toluene	1.0	U	1.0	5.0
Ethylbenzene	1.0	U	1.0	2.0
Methyl tert-butyl ether	1.0	U	1.0	2.0
Xylenes, Total	1.0	U	1.0	2.0

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	94	76 - 124

Lab Control Spike - Batch: 400-63080

Method: 8021B
Preparation: 5030B

Lab Sample ID: LCS 400-63080/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/23/2008 0637
Date Prepared: 01/23/2008 0637

Analysis Batch: 400-63080
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/PID
Lab File ID: W012248.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	54.1	108	81 - 120	
Toluene	50.0	54.1	108	84 - 118	
Ethylbenzene	50.0	55.0	110	83 - 119	
Methyl tert-butyl ether	100	97.8	98	71 - 128	
Xylenes, Total	150	162	108	84 - 118	

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	92	76 - 124

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27977-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-63080

Method: 8021B
Preparation: 5030B

MS Lab Sample ID:	400-27977-2	Analysis Batch: 400-63080	Instrument ID: GC/PID
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: W012407.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	01/24/2008 1403		Final Weight/Volume: 5 mL
Date Prepared:	01/24/2008 1403		Injection Volume:
			Column ID: PRIMARY
MSD Lab Sample ID:	400-27977-2	Analysis Batch: 400-63080	Instrument ID: GC/PID
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: W012408.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	01/24/2008 1430		Final Weight/Volume: 5 mL
Date Prepared:	01/24/2008 1430		Injection Volume:
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	98	102	78 - 125	4	14		
Toluene	99	102	71 - 135	3	20		
Ethylbenzene	100	103	80 - 127	3	13		
Methyl tert-butyl ether	85	89	64 - 138	4	24		
Xylenes, Total	98	101	79 - 126	3	13		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	94	94	76 - 124

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc. Job Number: 400-27977-1

Method Blank - Batch: 400-63130

Method: 8021B
Preparation: 5030B

Lab Sample ID: MB 400-63130/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2008 0951
Date Prepared: 01/25/2008 0951

Analysis Batch: 400-63130
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/PID
Lab File ID: W012503.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
Benzene	0.40	U	0.40	1.0
Toluene	1.0	U	1.0	5.0
Ethylbenzene	1.0	U	1.0	2.0
Methyl tert-butyl ether	1.0	U	1.0	2.0
Xylenes, Total	1.0	U	1.0	2.0

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	98	76 - 124

Lab Control Spike - Batch: 400-63130

Method: 8021B
Preparation: 5030B

Lab Sample ID: LCS 400-63130/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/25/2008 0910
Date Prepared: 01/25/2008 0910

Analysis Batch: 400-63130
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/PID
Lab File ID: W012502.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	54.4	109	81 - 120	
Toluene	50.0	54.9	110	84 - 118	
Ethylbenzene	50.0	55.6	111	83 - 119	
Methyl tert-butyl ether	100	95.1	95	71 - 128	
Xylenes, Total	150	163	109	84 - 118	

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	95	76 - 124

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27977-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-63130

Method: 8021B
Preparation: 5030B

MS Lab Sample ID:	400-28040-B-1 MS	Analysis Batch: 400-63130	Instrument ID: GC/PID
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: W012506.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	01/25/2008 1139		Final Weight/Volume: 5 mL
Date Prepared:	01/25/2008 1139		Injection Volume:
			Column ID: PRIMARY
MSD Lab Sample ID:	400-28040-C-1 MSD	Analysis Batch: 400-63130	Instrument ID: GC/PID
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: W012507.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	01/25/2008 1205		Final Weight/Volume: 5 mL
Date Prepared:	01/25/2008 1205		Injection Volume:
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	99	98	78 - 125	1	14		
Toluene	101	101	71 - 135	0	20		
Ethylbenzene	100	99	80 - 127	1	13		
Methyl tert-butyl ether	83	84	64 - 138	1	24		
Xylenes, Total	97	96	79 - 126	1	13		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	91	91	76 - 124

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27977-1

Method Blank - Batch: 400-62962

Method: FL-PRO
Preparation: 3520C

Lab Sample ID: MB 400-62962/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2008 1931
Date Prepared: 01/23/2008 0748

Analysis Batch: 400-63083
Prep Batch: 400-62962
Units: ug/L

Instrument ID: GC/FID/FID
Lab File ID: 3401034.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.1 mL
Injection Volume:

Analyte	Result	Qual	MDL	PQL
Total Petroleum Hydrocarbons (C8-C40)	29	U	29	83

Surrogate	% Rec		Acceptance Limits
n-C39	12	J1	20 - 176
o-Terphenyl	77		49 - 143

Lab Control Spike - Batch: 400-62962

Method: FL-PRO
Preparation: 3520C

Lab Sample ID: LCS 400-62962/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/24/2008 0832
Date Prepared: 01/23/2008 0748

Analysis Batch: 400-63083
Prep Batch: 400-62962
Units: ug/L

Instrument ID: GC/FID/FID
Lab File ID: 0801007.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.4 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Petroleum Hydrocarbons (C8-C40)	3400	2630	77	41 - 133	

Surrogate	% Rec	Acceptance Limits
n-C39	29	20 - 176
o-Terphenyl	93	49 - 143

Calculations are performed before rounding to avoid round-off errors in calculated results.

400-27977

Chain of Custody Record

Lab Report No.:

Company: Aerostar	**Gulf Coast LabNet, Inc.** An Environmental Lab Services Co.	Modified from DEP Form #: 62-770.900(2) — Page 1 of 1
Address: New Orleans LA	Phone: (251) 625-1331	FDEP Facility No.:
	Fax: (251) 625-1299	Project Name: NAS Pensacola
		Location: Bldg # 38
		Project No.:

Attn: Emilie Weis — Phone: — Fax:

Sampled by [Print Name]/Affiliation: Curtis Mills — Sampler Signature:

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Comp.	Matrix Codes	No. Cont.	4 (BTEX / MTBE)	H (PAH (8270))	N (FL-PRO)	←Preservative / ←Analysis	REQUESTED DUE DATE	Remarks	Lab. No.
1	MW-6	1/22/08	1257	G	GW	4	X	X	X				
2	MW-5	1/21/08	1337				X	X	X				
3	MW-4	1/21/08	1422				X	X	X				
4	MW-2	1/21/08	1451				X	X	X				
5	MW-1	1/21/08	1515				X	X	X				
6	MW-3	1/21/08	1557				X	X	X				

Page 3 of 35

Shipment Method		Total Number of Containers: 24
Out: / /	Via:	
Returned: / /	Via:	

Item #	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
	Marshall Beckett / AES	1-22-08	1020	GCL	1-22-08	1020
	GCL	1-22-08	1430		1-22-08	14:30

Additional Comments

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
0.0°C 0.0°C		

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

Login Sample Receipt Check List

Client: Aerostar Environmental Services, Inc.

Job Number: 400-27977-1

Login Number: 27977
Creator: Hor, Koma
List Number: 1

List Source: TestAmerica Pensacola

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 0.0°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 10/27/2008

GCAL Report 208102131

Deliver To	Aerostar 4640 S. Carrollton Ave. Ste B New Orleans, LA 70119
Attn	Emilie Wien

Project NAS PENSACOLA

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810213101	MW-8	Water	10/17/2008 10:13	10/21/2008 09:30
20810213102	MW-7	Water	10/17/2008 09:50	10/21/2008 09:30
20810213103	DW-1	Water	10/17/2008 09:22	10/21/2008 09:30

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810213102	MW-7	Water	10/17/2008 09:50	10/21/2008 09:30

SW-846 8270C SIM

CAS#	Parameter	Result	RDL	MDL	Units
90-12-0	1-Methylnaphthalene	1.61	1.00	0.024	ug/L
91-57-6	2-Methylnaphthalene	0.380I	1.00	0.023	ug/L
83-32-9	Acenaphthene	0.135I	1.00	0.059	ug/L
120-12-7	Anthracene	0.060I	0.100	0.027	ug/L
206-44-0	Fluoranthene	0.238I	0.250	0.036	ug/L
86-73-7	Fluorene	0.145I	0.500	0.028	ug/L
85-01-8	Phenanthrene	0.155	0.100	0.029	ug/L
129-00-0	Pyrene	0.195I	0.250	0.026	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810213101	MW-8	Water	10/17/2008 10:13	10/21/2008 09:30

SW-846 8270C SIM

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/23/2008 16:00	399403	3510C	1	10/24/2008 16:25	KCB	399514

CAS#	Parameter	Result	RDL	MDL	Units
90-12-0	1-Methylnaphthalene	0.024U	1.00	0.024	ug/L
91-57-6	2-Methylnaphthalene	0.023U	1.00	0.023	ug/L
83-32-9	Acenaphthene	0.059U	1.00	0.059	ug/L
208-96-8	Acenaphthylene	0.037U	1.00	0.037	ug/L
120-12-7	Anthracene	0.027U	0.100	0.027	ug/L
56-55-3	Benzo(a)anthracene	0.035U	0.100	0.035	ug/L
50-32-8	Benzo(a)pyrene	0.022U	0.100	0.022	ug/L
205-99-2	Benzo(b)fluoranthene	0.026U	0.100	0.026	ug/L
191-24-2	Benzo(g,h,i)perylene	0.014U	0.250	0.014	ug/L
207-08-9	Benzo(k)fluoranthene	0.027U	0.100	0.027	ug/L
218-01-9	Chrysene	0.024U	0.100	0.024	ug/L
53-70-3	Dibenz(a,h)anthracene	0.014U	0.100	0.014	ug/L
206-44-0	Fluoranthene	0.036U	0.250	0.036	ug/L
86-73-7	Fluorene	0.028U	0.500	0.028	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.013U	0.250	0.013	ug/L
91-20-3	Naphthalene	0.037U	0.500	0.037	ug/L
85-01-8	Phenanthrene	0.029U	0.100	0.029	ug/L
129-00-0	Pyrene	0.026U	0.250	0.026	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	5	2.4	ug/L	48	43 - 110
321-60-8	2-Fluorobiphenyl	5	1.53	ug/L	31	16 - 128
1718-51-0	Terphenyl-d14	5	2.38	ug/L	48	47 - 121

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810213102	MW-7	Water	10/17/2008 09:50	10/21/2008 09:30

SW-846 8270C SIM

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/23/2008 16:00	399403	3510C	1	10/24/2008 16:40	KCB	399514

CAS#	Parameter	Result	RDL	MDL	Units
90-12-0	**1-Methylnaphthalene**	**1.61**	**1.00**	**0.024**	**ug/L**
91-57-6	**2-Methylnaphthalene**	**0.380I**	**1.00**	**0.023**	**ug/L**
83-32-9	**Acenaphthene**	**0.135I**	1.00	**0.059**	**ug/L**
208-96-8	Acenaphthylene	0.037U	1.00	0.037	ug/L
120-12-7	**Anthracene**	**0.060I**	**0.100**	**0.027**	**ug/L**
56-55-3	Benzo(a)anthracene	0.035U	0.100	0.035	ug/L
50-32-8	Benzo(a)pyrene	0.022U	0.100	0.022	ug/L
205-99-2	Benzo(b)fluoranthene	0.026U	0.100	0.026	ug/L
191-24-2	Benzo(g,h,i)perylene	0.014U	0.250	0.014	ug/L
207-08-9	Benzo(k)fluoranthene	0.027U	0.100	0.027	ug/L
218-01-9	Chrysene	0.024U	0.100	0.024	ug/L
53-70-3	Dibenz(a,h)anthracene	0.014U	0.100	0.014	ug/L
206-44-0	**Fluoranthene**	**0.238I**	**0.250**	**0.036**	**ug/L**
86-73-7	**Fluorene**	**0.145I**	**0.500**	**0.028**	**ug/L**
193-39-5	Indeno(1,2,3-cd)pyrene	0.013U	0.250	0.013	ug/L
91-20-3	Naphthalene	0.037U	0.500	0.037	ug/L
85-01-8	**Phenanthrene**	**0.155**	**0.100**	**0.029**	**ug/L**
129-00-0	**Pyrene**	**0.195I**	**0.250**	**0.026**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	5	3.67	ug/L	73	43 - 110
321-60-8	2-Fluorobiphenyl	5	2.09	ug/L	42	16 - 128
1718-51-0	Terphenyl-d14	5	3.04	ug/L	61	47 - 121

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810213103	DW-1	Water	10/17/2008 09:22	10/21/2008 09:30

SW-846 8270C SIM

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/23/2008 16:00	399403	3510C	1	10/24/2008 16:55	KCB	399514

CAS#	Parameter	Result	RDL	MDL	Units
90-12-0	1-Methylnaphthalene	0.024U	1.00	0.024	ug/L
91-57-6	2-Methylnaphthalene	0.023U	1.00	0.023	ug/L
83-32-9	Acenaphthene	0.059U	1.00	0.059	ug/L
208-96-8	Acenaphthylene	0.037U	1.00	0.037	ug/L
120-12-7	Anthracene	0.027U	0.100	0.027	ug/L
56-55-3	Benzo(a)anthracene	0.035U	0.100	0.035	ug/L
50-32-8	Benzo(a)pyrene	0.022U	0.100	0.022	ug/L
205-99-2	Benzo(b)fluoranthene	0.026U	0.100	0.026	ug/L
191-24-2	Benzo(g,h,i)perylene	0.014U	0.250	0.014	ug/L
207-08-9	Benzo(k)fluoranthene	0.027U	0.100	0.027	ug/L
218-01-9	Chrysene	0.024U	0.100	0.024	ug/L
53-70-3	Dibenz(a,h)anthracene	0.014U	0.100	0.014	ug/L
206-44-0	Fluoranthene	0.036U	0.250	0.036	ug/L
86-73-7	Fluorene	0.028U	0.500	0.028	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.013U	0.250	0.013	ug/L
91-20-3	Naphthalene	0.037U	0.500	0.037	ug/L
85-01-8	Phenanthrene	0.029U	0.100	0.029	ug/L
129-00-0	Pyrene	0.026U	0.250	0.026	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	5	4.91	ug/L	98	43 - 110
321-60-8	2-Fluorobiphenyl	5	2.48	ug/L	50	16 - 128
1718-51-0	Terphenyl-d14	5	3.38	ug/L	68	47 - 121

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch 399514	**Client ID**	MB399403	LCS399403	LCSD399403
Prep Batch 399403	**GCAL ID**	660000	660001	660002
Prep Method 3510C	**Sample Type**	Method Blank	LCS	LCSD
	Prep Date	10/23/2008 16:00	10/23/2008 16:00	10/23/2008 16:00
	Analytical Date	10/24/2008 15:40	10/24/2008 15:55	10/24/2008 16:10
	Matrix	Water	Water	Water

SW-846 8270C SIM		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits %R**	**Result**	**% R**	**RPD**	**RPD Limit**
83-32-9	Acenaphthene	0.059U	0.059	10.0	5.24	52	30 - 120	7.16	72	31	40
208-96-8	Acenaphthylene	0.037U	0.037	10.0	5.54	55	30 - 130	7.66	77	32	40
120-12-7	Anthracene	0.027U	0.027	10.0	6.55	66	50 - 120	7.21	72	10	40
56-55-3	Benzo(a)anthracene	0.035U	0.035	10.0	7.08	71	44 - 123	7.50	75	6	40
205-99-2	Benzo(b)fluoranthene	0.026U	0.026	10.0	7.00	70	43 - 129	7.36	74	5	40
207-08-9	Benzo(k)fluoranthene	0.027U	0.027	10.0	7.15	72	46 - 126	7.08	71	1	40
191-24-2	Benzo(g,h,i)perylene	0.014U	0.014	10.0	6.96	70	49 - 120	7.71	77	10	40
50-32-8	Benzo(a)pyrene	0.022U	0.022	10.0	7.19	72	42 - 128	7.67	77	6	40
218-01-9	Chrysene	0.024U	0.024	9.80	6.97	71	47 - 120	7.13	73	2	40
53-70-3	Dibenz(a,h)anthracene	0.014U	0.014	10.0	7.15	72	36 - 131	7.80	78	9	40
206-44-0	Fluoranthene	0.036U	0.036	10.0	7.72	77	37 - 129	7.57	76	2	40
86-73-7	Fluorene	0.028U	0.028	10.0	5.82	58	30 - 125	7.56	76	26	40
193-39-5	Indeno(1,2,3-cd)pyrene	0.013U	0.013	10.0	6.71	67	35 - 138	7.76	78	15	40
91-20-3	Naphthalene	0.037U	0.037	10.0	5.92	59	30 - 120	11.0	110	60*	40
85-01-8	Phenanthrene	0.029U	0.029	10.0	6.59	66	43 - 120	7.41	74	12	40
129-00-0	Pyrene	0.026U	0.026	10.0	6.83	68	47 - 120	6.87	69	0.6	40
91-57-6	2-Methylnaphthalene	0.023U	0.023	10.0	5.26	53	30 - 120	8.38	84	46*	40
90-12-0	1-Methylnaphthalene	0.024U	0.024	10.0	5.28	53	40 - 140	8.19	82	43	
Surrogate											
4165-60-0	Nitrobenzene-d5	4.32	86	5	5.1	102	43 - 110	4.36	87		
321-60-8	2-Fluorobiphenyl	2.91	58	5	3.29	66	16 - 128	2.67	53		
1718-51-0	Terphenyl-d14	4.41	88	5	4.34	87	47 - 121	3.75	75		

CASE NARRATIVE

Client: Aerostar **Report:** 208102131

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Additional Flags:

I – The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

SEMI-VOLATILES MASS SPECTROMETRY

In the SW-846 8270C SIM analysis for prep batch 399403, the LCS/LCSD exhibited RPD failures. No MS/MSD was performed due to insufficient sample volume.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

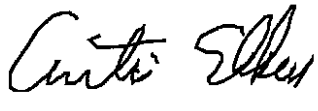
Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.



CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 208102131

THIS REPORT CONTAINS _____ PAGES.

Chain of Custody Record

Lab Report No.:

Company: AEROSTAR	**Gulf Coast LabNet, Inc.** An Environmental Lab Services Co.	Modified from DEP Form #: 62-770.900(2) Page 1 of 1
Address: 4640 S. CARROLLTON AVE. NEW ORLEANS, LA 7019	Phone: (251) 625-1331 Fax: (251) 625-1299	FDEP Facility No.: Project Name: NAS PENSACOLA Location: BLDG. # 38 Project No.:

Attn: EMILIE WIEN Phone: Fax:

Samplers (Print Name)/Affiliation: Curtis Mills Sampler Signature

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Comp.	Matrix Codes	No. Cont.	8310 PAH			← Preservative	← Analysis
										REQUESTED DUE DATE 10-22-08	
										Remarks	Lab. No.
										REPORT IN pp.	
	MW-8	10/17/08	1013	G	GW	2	X			1	
	MW-7	10/17/08	950	G	GW	2	X			2 REPORT 1 & 2	
	DW-1	10/17/08	922	G	GW	2	X			3 METHYLNAPH. w/ 5310	
						6	← Total Number of Containers				

Shipment Method

Out / / Via:

Returned / / Via:

Additional Comments

RESAMPLE

Items #	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
	EMPTY CONTAINERS	10-17-8	0800	[illegible] AES	10-17-08	0800
	[illegible] AES	10-17-08	1120	[illegible] GCL	10-17-08	1120
	[illegible] GCL	10-20-08	1800	FedEx S.D.M.	10-20-8	1800
	FedEx S.D.M.	10-20-8	930	ME	10-21-8	930

Cooler No.(s) / Temperature(s) (°C) | Sampling Kit No. | Equipment ID No. 4.5

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 10/23/2008

GCAL Report 208101517

Deliver To	Aerostar 4640 S. Carrollton Ave. Ste B New Orleans, LA 70119
Attn	Emilie Wien

Project NAS PENSACOLA

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810151701	MW-8	Water	10/14/2008 13:35	10/15/2008 09:15
20810151702	DW-1	Water	10/14/2008 14:32	10/15/2008 09:15
20810151703	MW-7	Water	10/14/2008 15:02	10/15/2008 09:15

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810151701	MW-8	Water	10/14/2008 13:35	10/15/2008 09:15

Florida PRO

CAS#	Parameter	Result	RDL	MDL	Units
FLPRO-01	Petroleum Hydrocarbons	233	106	43.3	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810151702	DW-1	Water	10/14/2008 14:32	10/15/2008 09:15

Florida PRO

CAS#	Parameter	Result	RDL	MDL	Units
FLPRO-01	Petroleum Hydrocarbons	458	102	41.5	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810151703	MW-7	Water	10/14/2008 15:02	10/15/2008 09:15

Florida PRO

CAS#	Parameter	Result	RDL	MDL	Units
FLPRO-01	Petroleum Hydrocarbons	873	102	41.5	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810151701	MW-8	Water	10/14/2008 13:35	10/15/2008 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/16/2008 12:56	AGC	398926

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.065U	5.00	0.065	ug/L
100-41-4	Ethylbenzene	0.065U	5.00	0.065	ug/L
108-88-3	Toluene	0.076U	5.00	0.076	ug/L
1330-20-7	Xylene (total)	0.183U	10.0	0.183	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.077U	5.00	0.077	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	53	ug/L	106	77 - 127
2037-26-5	Toluene d8	50	53.5	ug/L	107	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	71 - 127

Florida PRO

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/15/2008 15:00	398892	8015B Modified C8-C40	1	10/17/2008 11:47	TLS	399100

CAS#	Parameter	Result	RDL	MDL	Units
FLPRO-01	Petroleum Hydrocarbons	233	106	43.3	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	106	139	ug/L	131	35 - 132
7194-86-7	Nonatriacontane	638	615	ug/L	96	40 - 131

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810151702	DW-1	Water	10/14/2008 14:32	10/15/2008 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/16/2008 14:03	AGC	398926

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.065U	5.00	0.065	ug/L
100-41-4	Ethylbenzene	0.065U	5.00	0.065	ug/L
108-88-3	Toluene	0.076U	5.00	0.076	ug/L
1330-20-7	Xylene (total)	0.183U	10.0	0.183	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.077U	5.00	0.077	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.8	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	50.7	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.8	ug/L	98	71 - 127

Florida PRO

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/15/2008 15:00	398892	8015B Modified C8-C40	1	10/17/2008 12:17	TLS	399100

CAS#	Parameter	Result	RDL	MDL	Units
FLPRO-01	Petroleum Hydrocarbons	458	102	41.5	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	102	103	ug/L	101	35 - 132
7194-86-7	Nonatriacontane	612	582	ug/L	95	40 - 131

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20810151703	MW-7	Water	10/14/2008 15:02	10/15/2008 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/16/2008 15:33	RJU	398926

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.065U	5.00	0.065	ug/L
100-41-4	Ethylbenzene	0.065U	5.00	0.065	ug/L
108-88-3	Toluene	0.076U	5.00	0.076	ug/L
1330-20-7	Xylene (total)	0.183U	10.0	0.183	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.077U	5.00	0.077	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	48.1	ug/L	96	77 - 127
2037-26-5	Toluene d8	50	49.1	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	71 - 127

Florida PRO

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
10/15/2008 15:00	398892	8015B Modified C8-C40	1	10/17/2008 12:47	TLS	399100

CAS#	Parameter	Result	RDL	MDL	Units
FLPRO-01	Petroleum Hydrocarbons	873	102	41.5	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	102	122	ug/L	120	35 - 132
7194-86-7	Nonatriacontane	612	652	ug/L	106	40 - 131

GC/MS Volatiles Quality Control Summary

Analytical Batch 398926	Client ID	MB398926			LCS398926			LCSD398926			
Prep Batch N/A	GCAL ID	657010			657011			657012			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	10/16/2008 10:22			10/16/2008 08:51			10/16/2008 09:35			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits %R**	**Result**	**% R**	**RPD**	**RPD Limit**
100-41-4	Ethylbenzene	0.065U	0.065	50.0	49.7	99	74 - 126	51.0	102	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.077U	0.077	50.0	46.5	93	76 - 122	47.3	95	2	30
1330-20-7	Xylene (total)	0.183U	0.183	150	169	113	76 - 123	174	116	3	30
71-43-2	Benzene	0.065U	0.065	50.0	50.1	100	78 - 121	49.5	99	1	20
108-88-3	Toluene	0.076U	0.076	50.0	53.8	108	78 - 121	54.2	108	0.7	20
Surrogate											
460-00-4	4-Bromofluorobenzene	47.9	96	50	48.2	96	78 - 130	49.6	99		
1868-53-7	Dibromofluoromethane	52.8	106	50	49	98	77 - 127	49.9	100		
2037-26-5	Toluene d8	53.2	106	50	47.2	94	76 - 134	47.4	95		
17060-07-0	1,2-Dichloroethane-d4	48.8	98	50	50.7	101	71 - 127	48.6	97		

Analytical Batch 398926	Client ID	L-11129			656823MS			656823MSD			
Prep Batch N/A	GCAL ID	20810154001			657413			657414			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/16/2008 13:18			10/16/2008 14:27			10/16/2008 14:49			
	Matrix	Solid			Solid			Solid			
SW-846 8260B		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits %R**	**Result**	**% R**	**RPD**	**RPD Limit**
71-43-2	Benzene	0.00	2.60	2000	2000	100	78 - 120	1940	97	3	21
Surrogate											
460-00-4	4-Bromofluorobenzene			2000	2010	101	62 - 127	2010	101		
1868-53-7	Dibromofluoromethane			2000	1970	99	65 - 130	1950	98		
2037-26-5	Toluene d8			2000	1850	93	71 - 132	1860	93		
17060-07-0	1,2-Dichloroethane-d4			2000	1950	98	62 - 125	1890	95		

General Chromatography Quality Control Summary

Analytical Batch	399100	**Client ID**	MB398892		LCS398892			LCSD398892			
Prep Batch	398892	**GCAL ID**	656871		656872			656873			
Prep Method	8015B	**Sample Type**	Method Blank		LCS			LCSD			
	Modified	**Prep Date**	10/15/2008 15:00		10/15/2008 15:00			10/15/2008 15:00			
	C8-C40	**Analytical Date**	10/17/2008 10:16		10/17/2008 10:46			10/17/2008 11:16			
		Matrix	Water		Water			Water			
Florida PRO		**Units**	ug/L	**Spike Added**	**Result**	**% R**	**Control Limits**	**Result**	**% R**	**RPD**	**RPD Limit**
FLPRO-01	Petroleum Hydrocarbons	47.4I	40.7	1700	1970	116	55 - 118	1860	109	6	20
Surrogate											
84-15-1	o-Terphenyl	109	109	100	133	**133***	35 - 132	140	**140***		
7194-86-7	Nonatriacontane	513	86	600	425	71	40 - 131	440	73		

CASE NARRATIVE

Client: Aerostar **Report:** 208101517

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the Florida Pro analysis for prep batch 398892, no MS/MSD was performed due to insufficient sample volume. All LCS/LCSD recoveries and RPDs were acceptable.

In the Florida Pro analysis of samples 656872 LCS and 656873 LCSD, the surrogate recovery for o-Terphyl was outside the QC limits.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Curtis Ekker

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 208101517

THIS REPORT CONTAINS _____ PAGES.

Chain of Custody Record

Lab Report No.:

Company: Aerostar	Gulf Coast LabNet, Inc. An Environmental Lab Services Co.	Modified from DEP Form # 62-770.500(2)	Page 1 of 1
Address: 4640 S. Carrollton Ave. New Orleans, LA 70119	Phone: (251) 625-1331 Fax: (251) 625-1299	FDEP Facility No.:	
		Project Name: NAS Pensacola	
		Location: Bldg. 38	
		Project No.: 0407-466-05	

Attn: Emilie Uwen — Phone: — Fax:

Sampled by [Print Name]/Affiliation: Curtis Mills — Sampler Signature:

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Comp.	Matrix Codes	No. Cont.	8260 BTEX/MTBE (H)	8270 8310 PAH (I)	FL-PRO (S)	Remarks	Lab. No.
										FDEP Format	
	MW-8	10/14/08	1335	G	GW	4	X	X	X		1
	DW-1	10/14/08	1432	G	GW	4	X	X	X	Report in ppb	2
	MW-7	10/14/08	1502	G	GW	4	X	X	X		3

←Preservative ←Analysis

REQUESTED DUE DATE

Total Number of Containers: 12

Shipment Method	
Out: / /	Via:
Returned: / /	Via:

Additional Comments: Report 1 & 2-Methyl-Naphthalene.

Item #	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
	EMPTY CONTAINERS	10-14-08	0800	[signature] / AES	10-14-08	0800
	[signature] / AES	10-14-08	1630	[signature] / GCL	10-14-08	1630
	[signature] / GCL	10-14-08	1800	FedEx / PM	10-14-08	1800
	FedEx / PM	10-15-08	915	[signature] GCAL	10-15-08	915

Cooler No.(s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.
	7990	5.3

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

APPENDIX G

Benzo (a) Pyrene Conversion Tables

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Building 38
Location: NAS Pensacola, FL
Facility/Site ID No.:

Soil Sample No. SB-3
Sample Date 12/20/2007
Location: SB-3
Depth (ft):

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.012	1.0	0.0120
Benzo(a)anthracene	0.011	0.1	0.0011
Benzo(b)fluoranthene	0.012	0.1	0.0012
Benzo(k)fluoranthene	0.011	0.01	0.0001
Chrysene	0.011	0.001	0.0000
Dibenz(a,h)anthracene	0.011	1.0	0.0110
Indeno(1,2,3-cd)pyrene	0.012	0.1	0.0012

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.027

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
= MDL but < PQL	Estimated	I	reported (estimated) value
= MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Building 38
Location: NAS Pensacola, FL
Facility/Site ID No.:

Soil Sample No. SB-5A
Sample Date 12/20/2007
Location: SB-5A
Depth (ft):

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.650	1.0	0.6500
Benzo(a)anthracene	0.450	0.1	0.0450
Benzo(b)fluoranthene	0.850	0.1	0.0850
Benzo(k)fluoranthene	0.380	0.01	0.0038
Chrysene	0.610	0.001	0.0006
Dibenz(a,h)anthracene	0.120	1.0	0.1200
Indeno(1,2,3-cd)pyrene	0.630	0.1	0.0630

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.967

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown EXCEEDS the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
= MDL but < PQL	Estimated	I	reported (estimated) value
= MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Building 38
Location: NAS Pensacola, FL
Facility/Site ID No.:

Soil Sample No. SB-5B
Sample Date 12/20/2007
Location: SB-5B
Depth (ft):

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.260	1.0	0.2600
Benzo(a)anthracene	0.340	0.1	0.0340
Benzo(b)fluoranthene	0.270	0.1	0.0270
Benzo(k)fluoranthene	0.039	0.01	0.0004
Chrysene	0.460	0.001	0.0005
Dibenz(a,h)anthracene	0.110	1.0	0.1100
Indeno(1,2,3-cd)pyrene	0.054	0.1	0.0054

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.437

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
= MDL but < PQL	Estimated	I	reported (estimated) value
= MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Building 38
Location: NAS Pensacola, FL
Facility/Site ID No.:

Soil Sample No. SB-11
Sample Date 10/1/2008
Location: SB-11
Depth (ft): 3-5'

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.026	1.0	0.0260
Benzo(a)anthracene	0.005	0.1	0.0005
Benzo(b)fluoranthene	0.025	0.1	0.0025
Benzo(k)fluoranthene	0.068	0.01	0.0007
Chrysene	0.009	0.001	0.0000
Dibenz(a,h)anthracene	0.021	1.0	0.0210
Indeno(1,2,3-cd)pyrene	0.056	0.1	0.0056

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.056

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
= MDL but < PQL	Estimated	I	reported (estimated) value
= MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Facility/Site Name: Building 38
Location: NAS Pensacola, FL
Facility/Site ID No.:

Soil Sample No. SB-12
Sample Date 10/1/2008
Location: SB-12
Depth (ft): 3-5'

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.118	1.0	0.1180
Benzo(a)anthracene	0.050	0.1	0.0050
Benzo(b)fluoranthene	0.118	0.1	0.0118
Benzo(k)fluoranthene	0.071	0.01	0.0007
Chrysene	0.057	0.001	0.0001
Dibenz(a,h)anthracene	0.022	1.0	0.0220
Indeno(1,2,3-cd)pyrene	0.317	0.1	0.0317

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.189

The concentration shown EXCEEDS the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
= MDL but < PQL	Estimated	I	reported (estimated) value
= MDL but < PQL	PQL	M	1/2 reported value