

**ON-SITE ENVIRONMENTAL ASSESSMENT  
HORIZONTAL AND VERTICAL DELINEATION**

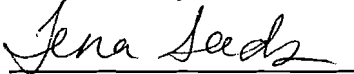
CONOCOPHILLIPS COMPANY  
SERVICE STATION 255353  
600 WESTLAKE AVENUE NORTH  
SEATTLE, WASHINGTON

Delta Project WA255-3510-1

August 4, 2005

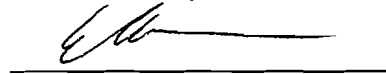
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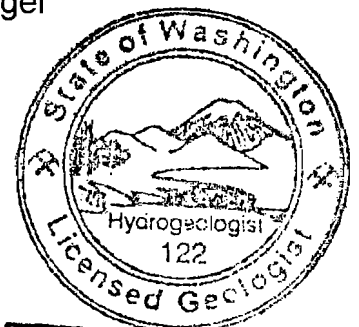
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## **1.0 INTRODUCTION**

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At the request of ConocoPhillips Company (COP), Delta Environmental Consultants (Delta) conducted an environmental site assessment in June 2005 at COP Site No. 255353 located at 600 Westlake Avenue North in Seattle, Washington. The assessment was intended to provide data on current soil and groundwater conditions with respect to petroleum hydrocarbons on the COP station and adjacent parking lot parcel, currently leased by West Marine. The purpose of this report is to summarize the results of these on-site assessment activities.

### **1.1 SITE LOCATION AND DESCRIPTION**

The site is an operating service station located on the northeast corner of the intersection of Westlake Avenue North and Mercer Street in Seattle, Washington (Figure 1). ConocoPhillips also owns the adjacent parcel to the east. The service station was originally constructed by Unocal in 1965. Previous uses of the service station site and adjacent parcel include a lumber mill, creamery, brewery, and a Denny's restaurant. Prior to use for a lumber mill, the property was a wetland area and part of Lake Union, and was reclaimed using undocumented fill materials. The parcel adjacent to the service station is currently vacant and leased as a parking lot. The service station currently has four 10,000-gallon fuel underground storage tanks (UST), and six dispensing islands (Figure 2).

### **1.2 BACKGROUND AND PREVIOUS INVESTIGATIONS**

In May 1980, a release of supreme leaded gasoline was confirmed by Unocal following inventory discrepancies. Approximately 80,000 gallons was estimated to have leaked over a 4-month period. The release occurred from a product line just south of the western pump islands. The USTs and piping were immediately replaced, two product recovery trenches were installed on the service station property, and a number of recovery wells were installed. Recovery of free product began in June 1980. Recovery of free product was discontinued in October 1982 as amounts recovered dwindled.

In 1988, a soil vapor extraction (SVE) system was installed by Unocal utilizing the free product recovery wells and trenches for vapor extraction. Monitoring showed that SVE was effective at reducing residual free product across the site. The system was shut down in August 1990 to evaluate site conditions after extracted vapor concentrations had greatly decreased. The system was pulsed on/off several times during the 1990s and manual/passive free product recovery was employed.

Tosco acquired the service station from Unocal in 1997. In May 2001, a contractor was removing the waste oil and heating oil USTs at the site and broke a product line. An estimated 600 gallons of unleaded gasoline was released. The contractor had a vacuum truck on site and recovery of free product was initiated immediately from the UST excavation. Approximately 500 gallons of free product were removed from the excavation at that time.

Vacuum trucks continued to be used for enhanced fluid recovery (EFR) from adjacent monitoring wells near the release location on a biweekly to monthly basis throughout the following year.

Approximately 33,800 gallons of total fluids were recovered during the EFR program, and approximately 25 tons of excavated materials were transported off site for treatment and recycling.

Free product was measured in on-site monitoring wells following the release. Subsequent data from those wells show that free product recovery using EFR was effective at removing impacts associated with the May 2001 release.

To further remediate the station property and to prevent hydrocarbon migration off-site onto the adjacent properties, a new remediation system was designed and installed. The system consists of an air sparge/soil vapor extraction (AS/SVE) trench, SVE wells, and several deep air sparge wells. Approximately 1,410 tons of impacted soils were removed during installation of the trench and wells. The new remediation system was installed and began operating in August of 2003. Groundwater concentrations in a number of wells on site with residual TPH-G/BTEX showed dramatic improvement after the system began operating.

## **2.0 ON-SITE ASSESSMENT ACTIVITIES**

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Assessment activities were conducted by Delta on the COP station and adjacent parking lot parcels. Drilling and well installation activities were performed between June 6 and June 13, 2005. The following sections describe these field activities.

### **2.1 DRILLING AND WELL INSTALLATION**

Drilling and well installation activities were performed between June 6 and June 14, 2005 and included advancement of 24 soil borings. Seven of the soil borings were completed as groundwater monitoring wells and nine of the soil borings were completed as potential remediation wells (air-sparging wells or soil vapor extraction wells). The location of each soil boring, groundwater monitoring well, and remediation well is shown on Figure 2. Prior to drilling, Delta coordinated the location and marking of underground utilities in the vicinity of the proposed drilling locations. The utilities survey included contacting the local utility locating service and contracting with a private locating service.

With the exception of one soil boring (SB-15), each boring was cleared to five feet below ground surface with an air-knife prior to drilling. Boring SB-15 was cleared to 8 feet below ground surface prior to drilling. During air-knifing of soil boring SB-2, a concrete slab was encountered at approximately 22 inches below ground surface. The concrete was cored through and air-knifing resumed at the hole to a depth of 5 feet. Pea gravel and an unidentified pipe were encountered during air-knifing of soil boring SB-3. The hole was subsequently abandoned and the boring was relocated approximately 10 feet to the east and identified as SB-3A. While clearing the boring for MW-54, a 4-inch layer of asphalt was encountered at approximately eight inches below ground surface. The asphalt layer was cored through and the hole was cleared to the five foot depth.

Following air-knifing, each boring was advanced using hollow-stem auger drilling equipment provided by Cascade Drilling, Inc. (Cascade). With the exception of three borings, each boring was advanced to a depth of 20 feet below ground surface. One soil boring (SB-6) was advanced to a depth of 15.5 feet below ground surface, and two soil borings (SB-3A and SB-4) were advanced to a depth of 21.5 feet below ground surface.

During soil boring installation, field work was observed and duplicate samples were collected by a representative of Urban Redevelopment, LLC. The duplicate samples were taken from boring SB-1 at a depth interval of 10 to 11 feet, and from boring SB-9 at a depth interval of 14 to 15 feet.

During drilling of the boring for monitoring well MW-59, a 4-inch diameter PVC sanitary sewer line was encountered and broken. The pipe was located at a depth of approximate 5.2 feet below ground surface and was not located by either of the underground utility surveys. The broken pipe was repaired by Anderson Environmental Contracting of Kelso, Washington on the following day. Following the repair, the boring for MW-58 was relocated approximately four feet to the north and the excavated area was repaved.

During drilling, soil samples were collected continuously using a split-spoon sampler driven ahead of the drill bit into undisturbed formation materials. A Delta geologist examined and described each sample using the Unified Soil Classification System and standard geologic techniques. Each soil sample was field screened for the presence of volatile organic vapors using a photoionization detector (PID).

A description of each sample was recorded on a boring log form. Down-hole drilling and sampling equipment was steam cleaned prior to and between each boring to prevent cross-contamination.

Drill cuttings and decontamination fluids were placed in labeled 55-gallon drums and temporarily stored on-site.

Sixteen of the soil borings were completed as groundwater monitoring wells or remediation wells using 2-inch diameter, flush-threaded, Schedule 40 PVC well screen and blank riser pipe. Each of seven groundwater monitoring wells (MW-54 through MW-60) was constructed using a 15-foot length of 0.020-inch factory slotted PVC well screen placed between 5 and 20 feet below ground surface. Each of seven air-sparging wells (DAS-6 through DAS-12A) was constructed using a 2-foot length of 0.020-inch factory slotted PVC well screen placed between 18 and 20 feet below ground surface. Each of two soil vapor extraction wells (VE-6 and VE-7) was constructed using a 5-foot length of 0.020-inch factory slotted PVC well screen, placed between 8 and 13 feet below ground surface in VE-6, and between 5 and 15 feet below ground surface in VE-7. A filter pack of washed silica sand was placed around each screened interval concurrent with removal of the augers. A surface seal of bentonite chips was placed from the top of the filter pack to within approximately 1 to 1.5 feet of ground surface. A flush-mount steel monument with a bolt-down lid was then cemented in place over each well head. Boring logs, illustrating sampling intervals, lithologic descriptions, and well completion details are included in Appendix A.

## **2.2 WELLHEAD SURVEYING**

Top-of-casing (TOC) elevations of the new wells have not yet been surveyed. Delta is currently coordinating with a licensed land surveyor to survey the TOC elevations and horizontal coordinates of each new monitoring well and all existing monitoring wells associated with the site and surrounding properties. Elevations and horizontal coordinates will be surveyed with respect to an existing City of Seattle benchmark. Surveying is tentatively scheduled to occur during August 2005.

## **2.3 WELLHEAD DEVELOPMENT**

Monitoring Wells MW-54 through MW-60 were developed on June 15, 2005 using an electric submersible pump to remove fine-grained materials entering the well from the material surrounding the well screen. Approximately 15 to 55 gallons of water were purged from each well during development. Wells MW-55, MW-59, and MW-60 purged dry within two to five minutes of pumping and each produced approximately 15 gallons of water during development periods of 30 to 90 minutes, allowing multiple recharges within those times. Wells MW-54 and MW-56 through MW-58 did not purge dry during development. The newly installed air-sparge wells have not yet been developed. However, development of those wells will be performed prior to any use in a future remediation system. Development water from the new monitoring wells was placed in labeled 55-gallon drums and temporarily stored on-site.

## **2.4 SUBSURFACE CONDITIONS**

Subsurface (fill) soil encountered during drilling consisted of sands and silts with varying amounts of gravel and clay directly beneath the asphalt surface to depths ranging from approximately 10 to 20 feet below ground surface. A layer of wood debris was encountered across the site at depths ranging from approximately 7 to 20 feet below ground surface, and appeared to increase in thickness from west to east. Native silts and sands and areas of peat were encountered at the bottom of the wood debris layer, at depths of approximately 19 to 21.5 feet below ground surface. Groundwater was encountered during drilling at depths ranging from approximately 9.5 to 12.5 feet below ground surface.

Generalized geologic cross-sections A-A', B-B', and C-C' were prepared to aid interpretation of the subsurface soil stratigraphy. The lines of these cross-sections are shown on Figure 2. The cross-sections are presented as Figures 9, 10, and 11.



Field screening of soil samples with the PID indicated the presence of hydrocarbon-impacted soil beneath the western parcel (station property) and beneath portions of the eastern parcel (parking lot). Volatile organic vapors were detected at elevated concentrations with the PID at soil depths ranging from approximately 9 feet to 13 feet below ground surface within the northwest portion of the station property (up to 330 parts per million (ppm)), and from approximately 11 feet to 17 feet below ground surface within the west and southwest portions of the station property (up to 455 ppm). On the eastern portion of the station parcel, elevated PID concentrations were measured at soil depths between 10 and 12 feet below ground surface (up to 496 ppm). On the northern portion of the parking lot parcel, elevated PID concentrations were measured at soil depths between 9 and 10 feet below ground surface (up to 198 ppm). PID readings are included on the boring logs in Appendix A.

## **2.5 WASTE MANAGEMENT**

Soil cuttings, decontamination fluids and development water generated during drilling activities were temporarily stored in labeled 55-gallon drums pending receipt of analytical data for soil and water samples and coordination of disposal at an approved facility. In early July 2005, a total of 28 drums of soil were transported to Waste Management's Columbia Ridge Landfill located in Arlington, Oregon, and a total of 18 drums of water were transported to the Emerald Petroleum Services facility located in Seattle, Washington for subsequent disposal. Associated waste disposal documentation is included as Appendix B.

### 3.0 SAMPLE COLLECTION AND ANALYSIS

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#### 3.1 SOIL SAMPLE COLLECTION AND ANALYSIS

Soil samples were collected continuously during drilling using a split-spoon sampler driven ahead of the drill bit into undisturbed formation materials. Soil samples were generally preserved for laboratory analysis from depths of five, ten, fifteen, and twenty feet below ground surface, and from additional depths as determined through field screening. These samples were placed in laboratory-prepared glass jars and stored in a chilled cooler pending delivery to the analytical laboratory. Per recent Washington State Ecology requirements regarding soil sampling for volatile organic compound analyses, the soil samples were also preserved in the field using EPA Method 5035A. The samples were submitted to Severn Trent Laboratories, Inc. of Tacoma, Washington for quantitative chemical analysis. The soil samples were analyzed for the following parameters: total petroleum hydrocarbons in the gasoline range (TPH-G) using Washington Method NWTPH-Gx; total petroleum hydrocarbons in the diesel and heavy oil ranges (TPH-D and TPH-O) using Washington Method NWTPH-Dx (with silica gel cleanup to remove biogenic interference); benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl ter-butyl ether (MTBE), and naphthalene using EPA Method 8260B; and total lead using EPA Method 6010.

While performing some of the soil sample analyses, the laboratory had quality assurance/quality control (QA/QC) issues. These issues included surrogate recoveries outside of acceptable limits, sample handling protocol, and elevated detection/reporting limits on some parameters. Soil samples that had QA/QC issues are flagged in Table 1. Please refer to the notes at the end of Table 1 and the laboratory reports in Appendix C for additional details regarding QA/QC issues.

Laboratory analytical results indicate that concentrations of TPH-G, BTEX, and naphthalene are present above respective Washington State Model Toxics Control Act (MTCA) Method A soil cleanup levels in soils beneath the site, primarily within about a 6-foot zone near the groundwater interface (9 to 15 feet in depth). The maximum concentration of TPH-G was detected at 14,000 milligrams per kilogram (mg/kg) in soil collected from 10 feet below ground surface from boring SB-3A. The maximum concentration of benzene was detected at 270 mg/kg in soil collected from 10 feet below ground surface from boring SB-4. The maximum concentration of toluene was detected at 380 mg/kg in soil collected at 14 feet below ground surface from the boring for MW-60. Maximum concentrations of ethylbenzene, xylenes, and naphthalene were all detected in soil collected from the 12.5-foot depth from boring SB-12, at concentrations of 1,600 mg/kg, 18,000 mg/kg, and 1,400 mg/kg, respectively. According to the analytical report, MTBE was not detected above laboratory reporting limits in any of the soil samples collected from any of the soil borings. Concentrations of TPH-G in soil are shown on Figure 3. Concentrations of benzene in soil are shown on Figure 4.

With the exception of two soil samples, analytical results indicate that TPH-D was either not detectable above laboratory reporting limits or was detected below the MTCA Method A soil cleanup level of 2,000 mg/kg in the soil samples collected from the site. The samples collected from SB-8 at the 18-foot depth and from the boring for MW-60 at the 14-foot depth reportedly contained concentrations of TPH-D at 3,400 mg/kg and 2,080 mg/kg, respectively. However, the laboratory noted that the concentrations did not appear to be "typical" product or was overlap from gasoline-range hydrocarbons. Concentrations of TPH-O in all of the soil samples were either not detected above laboratory reporting limits or were detected below the MTCA Method A soil cleanup level. Concentrations of TPH-D in soil are shown on Figure 5. Concentrations of TPH-O are shown on Figure 6.

Total lead was detected above the MTCA Method A soil cleanup level of 250 mg/kg in the samples collected from boring SB-6 at the 10-foot soil depth (671 mg/kg) and from boring SB-13 at the 5-foot soil depth (3,700 mg/kg). Total lead in all other samples was either detected below the MTCA Method A cleanup level or was not detected above laboratory reporting limits. Soil analytical results are presented in Table 1 and copies of the soil analytical laboratory reports are included in Appendix C.

### **3.2 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS**

Groundwater samples were collected from the seven newly installed groundwater monitoring wells (MW-54 through MW-60) on June 16, 2005, during a supplemental groundwater monitoring event performed for the second quarter of 2005. The supplemental monitoring event included sampling of additional off-site wells associated with the COP site that were identified but were not part of the routine groundwater monitoring program (MW-13, MW-16, MW-19, MW-36, MW-42, MW-43, and MW-44). Several of these additional wells were installed immediately following the 1980 Unocal release and no details on well construction are available (MW-13, MW-16, and MW-19). A number of other 1980-vintage wells were also located, but were damaged or dry and could not be sampled. Prior to sample collection, a Delta field technician measured the depth to water in each well with an electronic water level meter and estimated total volume of water standing in the well casing (pore volume). A minimum of three pore volumes of water were removed from each well prior to sample collection. The purge water was placed in a labeled 55-gallon drum, which was transported off-site concurrent with removal of the waste drums generated from the drilling activities.

Groundwater samples were collected from each well using disposable polyethylene bailers and placed in laboratory-prepared glass containers. The sample containers were stored in a chilled cooler pending delivery to the analytical laboratory. The samples were submitted to Severn Trent Laboratories, Inc. for quantitative chemical analysis. The samples were analyzed for TPH-G using Northwest Method NWTPH-Gx, for TPH-D and TPH-O using Northwest Method NWTPH-Dx (with silica gel cleanup to remove biogenic interference), and for BTEX and MTBE using EPA Method 8260B.

Laboratory analytical results indicate that TPH-G and one or more BTEX compounds were detected at concentrations exceeding the respective MTCA Method A groundwater cleanup levels in groundwater samples collected from MW-57 through MW-60. TPH-G was also detected above the MTCA Method A groundwater cleanup level in the sample collected from MW-55. The highest concentrations of TPH-G and BTEX on-site were detected in the groundwater sample collected from MW-60, at 64,300 micrograms per liter (ug/l), 4,100 ug/l, 6,820 ug/l, 2,260 ug/l, and 10,610 ug/l, respectively. The highest concentration of TPH-G off-site was detected in the groundwater sample collected from MW-19, at 117,000 ug/l. Delta personnel also observed a sheen on the groundwater from MW-60 during purging. TPH-G and BTEX compounds were either not detected above laboratory reporting limits or were detected below MTCA Method A groundwater cleanup levels in the samples collected from MW-54 and MW-56. MTBE was not detected above laboratory reporting limits in the samples collected from MW-54, MW-55, and MW-57 through MW-60, and was detected below the MTCA Method A groundwater cleanup level in the sample collected from MW-56 at a concentration of 1.29 ug/l.

According to the laboratory analytical results, concentrations of TPH-D were detected below the MTCA Method A groundwater cleanup level of 500 ug/l in the samples collected from MW-54, MW-56, and MW-58. Concentrations of TPH-D were detected above the cleanup level in the samples collected from MW-55 (3,100 ug/l), MW-57 (1,800 ug/l), MW-59 (1,700 ug/l), and MW-60 (4,300 ug/l). However, the laboratory noted that all of the TPH-D concentrations did not appear to be "typical" product. Concentrations of TPH-O were either not detected above laboratory reporting limits or were detected below the MTCA Method A groundwater cleanup level in the samples collected from MW-54 through MW-60. A summary of groundwater analytical results for the seven newly installed monitoring wells is included in Table 2. Historical groundwater monitoring data is presented in Table 3.

A copy of the groundwater analytical report is included in Appendix D. Copies of groundwater monitoring field data are included in Appendix E. Results of all groundwater monitoring performed at the site for second quarter of 2005 are summarized in a separate quarterly groundwater monitoring report. Additionally, concentrations of TPH-G and benzene are shown on Figures 7 and 8 for all wells sampled during June 2005.

## 4.0 SUMMARY AND CONCLUSIONS

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Assessment activities were performed at this site to delineate the horizontal and vertical extent of impact by petroleum hydrocarbons. A total of 24 soil borings were advanced at the site between June 6 and June 14, 2005. Seven of the soil borings were completed as groundwater monitoring wells to assess groundwater conditions in previously unexplored areas throughout the site, and nine of the soil borings were completed as potential future remediation wells. The new groundwater monitoring wells were developed on June 15, 2005 and were sampled for laboratory analysis on June 16, 2005.

During this site assessment, concentrations of petroleum hydrocarbons in subsurface soils were identified above MTCA Method A soil cleanup levels in 22 of the 24 soil borings that were advanced at the site. Maximum concentrations of TPH-G, BTEX, and naphthalene were primarily identified in soil from depths ranging between 9 and 15 feet below ground surface. Within the northern and western portions of the service station parcel, elevated concentrations were generally present at soil depths between 12 and 15 feet below ground surface, with the maximum detected TPH-G concentration at 10,000 mg/kg in the boring for MW-60 and maximum benzene concentration at 110 mg/kg in boring SB-12. Within the eastern portion of the gas station parcel and northern portion of the parking lot parcel, elevated concentrations were generally present at approximately 10 feet below ground surface, with maximum TPH-G at 14,000 mg/kg in boring SB-3A and maximum benzene at 270 mg/kg in boring SB-4.

Figures 9, 10, and 11 show generalized geologic cross sections across three areas of the site. Areas of TPH-G impacted soil that exceed MTCA Method A cleanup levels are presented as a shaded area on the drawings. The cross sections show that the primary areas of soil impact are generally limited to a "smear zone" near the water table interface.

Deeper impacts were present in a localized area on the parking lot parcel, in soil boring SB-8. Concentrations of TPH-G and TPH-D were elevated in soil from SB-8 at the 18-foot depth, at 8,600 mg/kg and 3,400 mg/kg, respectively. Concentrations of TPH-O were also present in soil from SB-8 at levels below MTCA Method A criteria. According to the analytical laboratory report, the TPH-D and TPH-O concentrations detected in SB-8 were noted as not typical product and may represent impacts that pre-date the 1980 release. Minor deeper impacts were also noted in soils from boring SB-17, and may represent impact from off-site sources.

Soils impacted by total lead concentrations that exceeded MTCA Method A cleanup levels were identified in borings SB-6 and SB-13. Based on the locations of these borings, these impacts are not related to operation of the service station and are likely the result of earlier property use or fill placement.

Laboratory analysis of groundwater sampled from the newly installed monitoring wells indicates that concentrations of TPH-G, TPH-D, and BTEX are elevated above MTCA Method A cleanup levels in groundwater north of the station building and in the vicinity of the fueling islands located east and south of the station building (MW-57 through MW-60). Analytical results also indicate that groundwater in the vicinity of MW-55, located on the parking lot parcel, contains concentrations of TPH-G and TPH-D above respective MTCA Method A groundwater cleanup levels.

The findings of this assessment indicate that concentrations of hydrocarbons in soil and groundwater are not well defined to the south (Mercer Street), west (Westlake Avenue) and north (City Investors' property) of the COP property. Towards the east of the COP property (Terry Avenue N), soil and groundwater concentrations are better defined. Additional assessment off-site is being planned to address the data gaps which are now evident in these areas.

## 5.0 LIMITATIONS

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The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client.

The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

cc: Washington State Department of Ecology – Northwest Region, Bellevue, Washington

## **5.0 LIMITATIONS**

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The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client.

The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

**TABLE 1  
ON-SITE ASSESSMENT - SOIL ANALYTICAL RESULTS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D. | Sample Date           | Sample Depth (feet) | TPH-Gasoline (mg/kg)      | TPH-Diesel (mg/kg) | TPH-Oil (mg/kg)   | Benzene <sup>a</sup> (mg/kg) | Toluene (mg/kg)        | Ethyl-benzene (mg/kg)  | Xylenes (mg/kg)        | MTBE <sup>a</sup> (mg/kg) | Naphthalene (mg/kg)    | Total Lead (mg/kg) |
|-------------|-----------------------|---------------------|---------------------------|--------------------|-------------------|------------------------------|------------------------|------------------------|------------------------|---------------------------|------------------------|--------------------|
| SB-1-5      | 06/07/05 <sup>b</sup> | 5                   | 7.6                       | <26.1              | <52.1             | <b>0.064</b>                 | <0.24                  | 0.095 <sup>g</sup>     | 0.57                   | <0.48                     | <0.24                  | 13.9               |
| SB-1-10     | 06/07/05 <sup>b</sup> | 10                  | <b>3,600<sup>i</sup></b>  | 113 <sup>c</sup>   | <57.8             | <b>3.8<sup>h</sup></b>       | <b>28<sup>h</sup></b>  | <b>48<sup>h</sup></b>  | <b>280<sup>h</sup></b> | <28 <sup>h</sup>          | <b>34<sup>h</sup></b>  | 16.6               |
| SB-1-15     | 06/07/05 <sup>b</sup> | 15                  | <30                       | <26.6              | <53.2             | <b>0.17</b>                  | <1.2                   | <1.2                   | <1.2                   | <2.3                      | <1.2                   | 10.8               |
| SB-1-20     | 06/07/05 <sup>b</sup> | 20                  | <20                       | <97.2 <sup>i</sup> | <194 <sup>i</sup> | <b>1.4</b>                   | 0.63 <sup>g</sup>      | 0.35 <sup>g</sup>      | 1.7                    | <2.4                      | 0.37 <sup>g</sup>      | 61.5               |
| SB-2-5      | 06/08/05              | 5                   | <6.6                      | <32.3              | <64.6             | <0.04                        | <0.3                   | <0.3                   | <0.3                   | <0.59                     | <0.3                   | 14.6               |
| SB-2-10     | 06/08/05              | 10                  | <5.7                      | <27.5              | 74.4              | <0.034                       | <0.22                  | <0.22                  | <0.22                  | <0.44                     | <0.22                  | 5.15               |
| SB-2-12     | 06/08/05              | 12                  | <5.9                      | <29.2              | <58.4             | <0.035                       | <0.25                  | <0.25                  | <0.25                  | <0.49                     | <0.25                  | 4.23               |
| SB-2-20     | 06/08/05              | 20                  | <7.2                      | <34.7              | <69.5             | <0.043                       | <0.31                  | <0.31                  | <0.31                  | <0.62                     | <0.31                  | 5.39               |
| SB-3A-5     | 06/08/05              | 5                   | 15                        | <29.9              | <59.7             | <b>0.048</b>                 | <0.27                  | <0.27                  | 0.34                   | <0.55                     | <0.27                  | 5.71               |
| SB-3A-8     | 06/08/05              | 8                   | 19                        | <31                | <62               | <b>0.057</b>                 | <0.34                  | <0.34                  | 0.21 <sup>g</sup>      | <0.67                     | 0.1 <sup>g</sup>       | 4.04               |
| SB-3A-10    | 06/08/05              | 10                  | <b>14,000<sup>h</sup></b> | 486 <sup>c</sup>   | <51.8             | <b>6.9<sup>h</sup></b>       | <b>240<sup>h</sup></b> | <b>140<sup>h</sup></b> | <b>790<sup>h</sup></b> | <46 <sup>h</sup>          | <b>59<sup>h</sup></b>  | 4.75               |
| SB-3A-12    | 06/08/05              | 12                  | <b>1,000<sup>h</sup></b>  | 28.1 <sup>c</sup>  | <52.2             | <b>0.61<sup>h</sup></b>      | 6.4 <sup>h</sup>       | <b>8.4<sup>h</sup></b> | <b>59<sup>h</sup></b>  | <4.8 <sup>h</sup>         | <b>9.8<sup>h</sup></b> | 3.7                |
| SB-3A-14    | 06/08/05              | 14                  | 11                        | <28.1              | <56.2             | <0.036                       | 0.17 <sup>g</sup>      | 0.14 <sup>g</sup>      | 0.97                   | <0.46                     | 0.13 <sup>g</sup>      | 21.5               |
| SB-3A-21    | 06/08/05              | 21                  | <6.2                      | <30.3              | <60.7             | <0.037                       | <0.26                  | <0.26                  | <0.26                  | <0.51                     | <0.26                  | <2.32              |
| SB-4-5      | 06/07/05 <sup>b</sup> | 5                   | 9.7                       | <29.3              | <58.6             | <b>0.041</b>                 | <0.31                  | 0.16 <sup>g</sup>      | 0.26 <sup>g</sup>      | <0.62                     | <0.31                  | 9.5                |
| SB-4-10     | 06/07/05 <sup>b</sup> | 10                  | <b>1,200</b>              | 193 <sup>c</sup>   | <215              | <b>270</b>                   | <b>62</b>              | <b>34</b>              | <b>170</b>             | <36                       | <b>5.5<sup>g</sup></b> | 107                |
| SB-4-15     | 06/07/05 <sup>b</sup> | 15                  | <22                       | <109 <sup>i</sup>  | <219 <sup>i</sup> | <b>0.92</b>                  | <1.5                   | <1.5                   | 0.48 <sup>g</sup>      | <3.1                      | <1.5                   | 109                |
| SB-4-20     | 06/07/05 <sup>b</sup> | 20                  | <6.6                      | <28.4              | <56.9             | <b>0.15</b>                  | <0.25                  | <0.25                  | <0.25                  | <0.49                     | <0.25                  | 3.59               |
| SB-5-5      | 06/07/05 <sup>b</sup> | 5                   | 21                        | <28.7              | <57.5             | <b>0.22</b>                  | 0.25 <sup>g</sup>      | 0.39                   | 2.1                    | <0.55                     | 0.11 <sup>g</sup>      | 9.73               |
| SB-5-10     | 06/07/05 <sup>b</sup> | 10                  | <7.1                      | <32.8              | <65.7             | <b>0.38</b>                  | <0.31                  | <0.31                  | 0.25 <sup>g</sup>      | <0.63                     | <0.31                  | 79.3               |
| SB-5-15     | 06/07/05 <sup>b</sup> | 15                  | <b>72<sup>i</sup></b>     | <57.6              | <115              | <b>0.33</b>                  | <0.68                  | 0.25 <sup>g</sup>      | 1.3                    | <1.4                      | <0.68                  | 108                |
| SB-5-20     | 06/07/05 <sup>b</sup> | 20                  | <6.2                      | <28.8              | <57.5             | <0.037                       | <0.26                  | <0.26                  | <0.26                  | <0.52                     | <0.26                  | 1.81               |
| SB-6-5      | 06/08/05              | 5                   | 7.1                       | <27.5              | <55               | <0.035                       | <0.26                  | <0.26                  | 0.078 <sup>g</sup>     | <0.51                     | <0.26                  | 5.81               |
| SB-6-9      | 06/08/05              | 9                   | <b>1,800<sup>h</sup></b>  | 235 <sup>c</sup>   | <57.7             | <0.14                        | <1.2                   | 5.6                    | <b>20</b>              | <2.4                      | <b>16</b>              | 6.21               |
| SB-6-10     | 06/08/05              | 10                  | <b>39</b>                 | 214 <sup>d</sup>   | 190               | <b>0.07</b>                  | <0.31                  | 1.2                    | 0.46                   | <0.62                     | 0.51                   | <b>671</b>         |
| SB-6-15     | 06/08/05              | 15                  | <6.9                      | <30.3              | <60.6             | <0.042                       | 0.19 <sup>g</sup>      | <0.32                  | <0.32                  | <0.64                     | <0.32                  | 74.6               |



**TABLE 1  
ON-SITE ASSESSMENT - SOIL ANALYTICAL RESULTS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D. | Sample Date | Sample Depth (feet) | TPH-Gasoline (mg/kg) | TPH-Diesel (mg/kg) | TPH-Oil (mg/kg)    | Benzene <sup>a</sup> (mg/kg) | Toluene (mg/kg)    | Ethyl-benzene (mg/kg) | Xylenes (mg/kg)    | MTBE <sup>a</sup> (mg/kg) | Naphthalene (mg/kg) | Total Lead (mg/kg) |
|-------------|-------------|---------------------|----------------------|--------------------|--------------------|------------------------------|--------------------|-----------------------|--------------------|---------------------------|---------------------|--------------------|
| SB-7-5      | 06/08/05    | 5                   | 42                   | <29                | <57.9              | 1.9                          | 0.25 <sup>g</sup>  | 1.5                   | 4.6                | <0.54                     | <0.27               | 11.2               |
| SB-7-10     | 06/08/05    | 10                  | <6.5                 | <31.6              | <63.2              | <0.039                       | <0.32              | <0.32                 | <0.32              | <0.65                     | <0.32               | 89.2               |
| SB-7-15     | 06/08/05    | 15                  | 48                   | <151               | <301               | 1                            | <2                 | <2                    | 0.85 <sup>g</sup>  | <4.1                      | <2                  | 161                |
| SB-7-20     | 06/08/05    | 20                  | <8                   | <34.8              | <69.6              | <0.064                       | <0.53              | <0.53                 | <0.53              | <1.1                      | <0.53               | 4.23               |
| SB-8-5      | 06/09/05    | 5                   | <6.5                 | <30.9              | <61.9              | <0.036                       | <0.3               | <0.3                  | <0.3               | <0.59                     | <0.3                | 16.4               |
| SB-8-8      | 06/09/05    | 8                   | <6.3                 | <31.1              | <62.1              | <0.034                       | <0.28              | <0.28                 | <0.28              | <0.57                     | <0.28               | <2.49              |
| SB-8-10     | 06/09/05    | 10                  | <5.5                 | <26                | <51.9              | <0.028                       | <0.24              | <0.24                 | <0.24              | <0.47                     | <0.24               | 20.2               |
| SB-8-12     | 06/09/05    | 12                  | <5.7                 | <27.6              | <55.3              | <0.026                       | <0.21              | <0.21                 | <0.21              | <0.43                     | <0.21               | 40.1               |
| SB-8-15     | 06/09/05    | 15                  | 12                   | 373 <sup>f</sup>   | 333 <sup>f</sup>   | <0.11                        | <0.91              | <0.91                 | <0.91              | <1.8                      | <0.91               | 45.8               |
| SB-8-18     | 06/09/05    | 18                  | 8,600 <sup>h</sup>   | 3,400 <sup>f</sup> | 1,220 <sup>f</sup> | <0.33                        | 3.1                | <2.8                  | <2.8               | <5.5                      | <2.8                | 21.2               |
| SB-8-20     | 06/09/05    | 20                  | 13                   | 155 <sup>f</sup>   | <100               | <0.079                       | <0.66              | <0.66                 | <0.66              | <1.3                      | <0.66               | 15.5               |
| SB-9-5      | 06/09/05    | 5                   | <5.6                 | <26.4              | <52.9              | <0.034                       | <0.28              | <0.28                 | <0.28              | <0.56                     | <0.28               | 3.82               |
| SB-9-8      | 06/09/05    | 8                   | <6                   | <29.8              | <59.6              | <0.03                        | <0.25              | <0.25                 | 0.092 <sup>g</sup> | <0.51                     | <0.25               | 4.84               |
| SB-9-9      | 06/09/05    | 9                   | <5.6                 | <27.6              | <55.3              | <0.028                       | <0.24              | <0.24                 | <0.24              | <0.47                     | <0.24               | <1.77              |
| SB-9-10     | 06/09/05    | 10                  | 5.7                  | <26.9              | <53.7              | <0.024                       | <0.2               | <0.2                  | 0.4                | <0.4                      | 0.087 <sup>g</sup>  | 19.5               |
| SB-9-12     | 06/09/05    | 12                  | 550 <sup>h</sup>     | 96.8 <sup>c</sup>  | <55.3              | <0.14                        | <1.2               | <1.2                  | 11                 | <2.3                      | 5.3                 | 5.15               |
| SB-9-14     | 06/09/05    | 14                  | 8,200 <sup>h</sup>   | 1,240 <sup>c</sup> | <50.2              | 38                           | 270                | 110                   | 610                | <86                       | 37 <sup>g</sup>     | 12.6               |
| SB-9-15     | 06/09/05    | 15                  | 83                   | <29.2              | <58.4              | 0.25                         | <0.23              | 0.44                  | 0.29               | <0.45                     | 0.17 <sup>g</sup>   | <2.29              |
| SB-9-17     | 06/09/05    | 17                  | 12                   | <25.7              | <51.3              | 0.037                        | 0.086 <sup>g</sup> | <0.29                 | 0.35               | <0.57                     | <0.29               | <1.92              |
| SB-9-18     | 06/09/05    | 18                  | 7.5                  | <27.6              | <55.2              | 0.13                         | <0.23              | <0.23                 | 0.2 <sup>g</sup>   | <0.46                     | <0.23               | <1.94              |
| SB-9-20     | 06/09/05    | 20                  | <6                   | <26.7              | <53.3              | <0.029                       | <0.24              | <0.24                 | <0.24              | <0.48                     | <0.24               | <2.17              |
| SB-10-5     | 06/09/05    | 5                   | <6                   | <27.9              | <55.9              | <0.031                       | <0.26              | <0.26                 | <0.26              | <0.52                     | <0.26               | 2.18               |
| SB-10-10    | 06/09/05    | 10                  | 4,600 <sup>h</sup>   | 1,910 <sup>c</sup> | <52.1              | 0.17                         | <0.29              | 1.6                   | 7.8                | <0.59                     | 4.4                 | 117                |
| SB-10-12    | 06/09/05    | 12                  | 40                   | <31.1              | <62.3              | 1.7                          | <0.51              | 3.8                   | 0.39 <sup>g</sup>  | <1                        | 4                   | <2.28              |
| SB-10-15    | 06/09/05    | 15                  | <5.9                 | <27.8              | <55.7              | 0.11                         | <0.27              | <0.27                 | <0.27              | <0.54                     | 0.32                | <2.29              |
| SB-10-20    | 06/09/05    | 20                  | <6.3                 | <28                | <55.9              | <0.031                       | <0.26              | <0.26                 | <0.26              | <0.52                     | 0.095 <sup>g</sup>  | <2.2               |

**TABLE 1  
ON-SITE ASSESSMENT - SOIL ANALYTICAL RESULTS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.           | Sample Date | Sample Depth (feet) | TPH-Gasoline (mg/kg)     | TPH-Diesel (mg/kg)  | TPH-Oil (mg/kg)    | Benzene <sup>a</sup> (mg/kg) | Toluene (mg/kg)        | Ethyl-benzene (mg/kg)    | Xylenes (mg/kg)           | MTBE <sup>a</sup> (mg/kg) | Naphthalene (mg/kg)      | Total Lead (mg/kg) |
|-----------------------|-------------|---------------------|--------------------------|---------------------|--------------------|------------------------------|------------------------|--------------------------|---------------------------|---------------------------|--------------------------|--------------------|
| SB-11-5               | 06/10/05    | 5                   | <5.6                     | <27.1               | 64.1               | <b>0.096</b>                 | <0.27                  | <0.27                    | <0.27                     | <0.54                     | <0.27                    | 23.7               |
| SB-11-9.5             | 06/10/05    | 9.5                 | <5.6                     | <26.9               | <53.7              | <0.027                       | <0.22                  | <0.22                    | <0.22                     | <0.45                     | <0.22                    | <2.21              |
| SB-11-11              | 06/10/05    | 11                  | <b>55</b>                | 90.9                | 172                | <b>0.32</b>                  | 1.3                    | 0.52                     | 4.4                       | <0.58                     | 0.66                     | 77.1               |
| SB-11-12.5            | 06/10/05    | 12.5                | <b>420<sup>i</sup></b>   | 45.3 <sup>c</sup>   | <55                | <b>2.3</b>                   | <1.1                   | <b>22</b>                | <b>18</b>                 | <2.2                      | <b>41</b>                | 31.6               |
| SB-11-13              | 06/10/05    | 13                  | <b>2,500<sup>h</sup></b> | 245 <sup>c</sup>    | <56.6              | <b>34<sup>h</sup></b>        | <5.6 <sup>h</sup>      | <b>730<sup>h</sup></b>   | <b>390<sup>h</sup></b>    | <11 <sup>h</sup>          | <b>380<sup>h</sup></b>   | 2.33               |
| SB-11-14              | 06/10/05    | 14                  | 6.7                      | <27.3               | <54.6              | <0.022                       | <0.18                  | <0.18                    | <0.18                     | <0.36                     | <0.18                    | <2.21              |
| SB-11-15.5            | 06/10/05    | 15.5                | <6.1                     | <29.7               | <59.4              | <b>0.038</b>                 | <0.26                  | <0.26                    | <0.26                     | <0.53                     | <0.26                    | <2.18              |
| SB-11-20              | 06/10/05    | 20                  | <b>69<sup>i</sup></b>    | 54.1 <sup>f,i</sup> | <80.3 <sup>i</sup> | <b>0.3</b>                   | <0.54                  | 0.47 <sup>g</sup>        | 0.56                      | 1.1                       | 0.34 <sup>g</sup>        | 12.7               |
| SB-12-5               | 06/10/05    | 5                   | 7.5                      | <26.8               | <53.7              | <0.025                       | <0.21                  | <0.21                    | <0.21                     | <0.42                     | <0.21                    | <2.14              |
| SB-12-9.5             | 06/10/05    | 9.5                 | <6                       | <28.5               | <57.1              | <0.026                       | <0.22                  | <0.22                    | 0.088 <sup>g</sup>        | <0.44                     | <0.22                    | 70.1               |
| SB-12-11              | 06/10/05    | 11                  | <b>1,500<sup>h</sup></b> | 98.2                | <58.8              | <0.49 <sup>h</sup>           | <b>100<sup>h</sup></b> | <b>100<sup>h</sup></b>   | <b>2,200<sup>h</sup></b>  | <8.1 <sup>h</sup>         | <b>230<sup>h</sup></b>   | 8.68               |
| SB-12-12.5            | 06/10/05    | 12.5                | <b>3,400<sup>h</sup></b> | 579 <sup>c</sup>    | <58.5              | <b>110<sup>h</sup></b>       | <b>240<sup>h</sup></b> | <b>1,600<sup>h</sup></b> | <b>18,000<sup>h</sup></b> | <24 <sup>h</sup>          | <b>1,400<sup>h</sup></b> | 9.02               |
| SB-12-14 <sup>j</sup> | 06/10/05    | 14                  | <b>170</b>               | --                  | --                 | <b>1.6</b>                   | 1.4                    | <b>19</b>                | <b>56</b>                 | <1.8                      | <b>10</b>                | --                 |
| SB-12-15.5            | 06/10/05    | 15.5                | <b>180</b>               | 38.9 <sup>c</sup>   | <61.1              | <b>1.7</b>                   | <1.1                   | <b>22</b>                | <b>51</b>                 | <2.2                      | <b>11</b>                | 10.8               |
| SB-12-20              | 06/10/05    | 20                  | <b>33</b>                | 39.3 <sup>c</sup>   | 113                | <0.037                       | 0.19 <sup>g</sup>      | 0.47                     | 1.7                       | <0.61                     | 0.4                      | 10.7               |
| SB-13-5               | 06/10/05    | 5                   | 8.8                      | <32.1               | <64.3              | <0.044                       | <0.36                  | <0.36                    | <0.36                     | <0.73                     | <0.36                    | <b>3,700</b>       |
| SB-13-9.5             | 06/10/05    | 9.5                 | <5.9                     | <28.1               | <56.1              | <b>0.12</b>                  | <0.25                  | <0.25                    | <0.25                     | <0.49                     | <0.25                    | 6.75               |
| SB-13-11              | 06/10/05    | 11                  | <5.9                     | <28.5               | <56.9              | <b>0.15</b>                  | <0.23                  | <0.23                    | <0.23                     | <0.46                     | <0.23                    | <2.05              |
| SB-13-12.5            | 06/10/05    | 12.5                | <5.7                     | <28.6               | <57.1              | <b>0.042</b>                 | <0.21                  | <0.21                    | 0.12 <sup>g</sup>         | <0.42                     | <0.21                    | <2.11              |
| SB-13-15.5            | 06/10/05    | 15.5                | <18                      | 263 <sup>e,i</sup>  | 1,000 <sup>i</sup> | <0.15                        | <1.2                   | <1.2                     | <1.2                      | <2.5                      | <1.2                     | 41                 |
| SB-13-20              | 06/10/05    | 20                  | <6                       | <27.2               | <54.4              | <0.029                       | <0.24                  | <0.24                    | <0.24                     | <0.49                     | <0.24                    | <2.14              |
| SB-14-5               | 06/13/05    | 5                   | <6.8                     | <32                 | <64.1              | <0.04                        | <0.34                  | <0.34                    | 0.098 <sup>g</sup>        | <0.67                     | <0.34                    | <2.52              |
| SB-14-10              | 06/13/05    | 10                  | <b>7,900<sup>h</sup></b> | 1,270 <sup>c</sup>  | 58.1               | <1.4 <sup>h</sup>            | <12 <sup>h</sup>       | <b>110<sup>h</sup></b>   | <b>330<sup>h</sup></b>    | <23 <sup>h</sup>          | <b>52<sup>h</sup></b>    | 8.44               |
| SB-14-15              | 06/13/05    | 15                  | <b>31</b>                | <30.9               | <61.7              | <0.034                       | <0.29                  | 0.37                     | 1.1                       | <0.57                     | 0.19 <sup>g</sup>        | 4.11               |
| SB-14-20              | 06/13/05    | 20                  | <b>54</b>                | <89.9 <sup>i</sup>  | <180 <sup>i</sup>  | <0.15                        | <1.3                   | 0.45 <sup>g</sup>        | 1.5                       | <2.5                      | 1.2 <sup>g</sup>         | <7.32              |

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ON-SITE ASSESSMENT - SOIL ANALYTICAL RESULTS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D. | Sample Date           | Sample Depth (feet) | TPH-Gasoline (mg/kg)     | TPH-Diesel (mg/kg) | TPH-Oil (mg/kg)    | Benzene <sup>a</sup> (mg/kg) | Toluene (mg/kg)        | Ethyl-benzene (mg/kg) | Xylenes (mg/kg)        | MTBE <sup>a</sup> (mg/kg) | Naphthalene (mg/kg)   | Total Lead (mg/kg) |
|-------------|-----------------------|---------------------|--------------------------|--------------------|--------------------|------------------------------|------------------------|-----------------------|------------------------|---------------------------|-----------------------|--------------------|
| SB-15-9     | 06/13/05              | 9                   | <5.5                     | <26.1              | <52.3              | <0.031                       | <0.26                  | <0.26                 | 0.082 <sup>g</sup>     | <0.52                     | 0.074 <sup>g</sup>    | 4.7                |
| SB-15-10    | 06/13/05              | 10                  | <6.5                     | <31                | <61.9              | <0.037                       | <0.31                  | <0.31                 | <0.31                  | <0.62                     | <0.31                 | 9.68               |
| SB-15-12    | 06/13/05              | 12                  | <b>680<sup>h</sup></b>   | <28.6              | <57.2              | <b>0.5</b>                   | 0.4 <sup>g</sup>       | 4.4                   | 3.7                    | <2.4                      | <b>18</b>             | <1.99              |
| SB-15-15    | 06/13/05              | 15                  | <6.1                     | <28.2              | <56.3              | <b>0.2</b>                   | <0.23                  | <0.23                 | <0.23                  | <0.45                     | 0.56                  | <2.38              |
| SB-15-20    | 06/13/05              | 20                  | <11                      | <54.6 <sup>i</sup> | <109 <sup>i</sup>  | <0.11                        | <0.95                  | <0.95                 | <0.95                  | <1.9                      | <0.95                 | 5.82               |
| SB-16-5     | 06/13/05              | 5                   | 7.6                      | <28.8              | <57.6              | <0.046                       | <0.38                  | <0.38                 | <0.38                  | <0.76                     | <0.38                 | 3.63               |
| SB-16-10    | 06/13/05              | 10                  | <5.6                     | <27.7              | <55.5              | <0.032                       | <0.27                  | <0.27                 | <0.27                  | <0.54                     | <0.27                 | <2.12              |
| SB-16-12    | 06/13/05              | 12                  | <b>8,700<sup>h</sup></b> | 82.4 <sup>c</sup>  | <59.4              | <6.3 <sup>h</sup>            | <b>110<sup>h</sup></b> | <b>87<sup>h</sup></b> | <b>500<sup>h</sup></b> | <100 <sup>h</sup>         | <b>54<sup>h</sup></b> | 23.7               |
| SB-16-15    | 06/13/05              | 15                  | <b>3,500<sup>h</sup></b> | 64.9 <sup>c</sup>  | <60.7              | <b>18<sup>h</sup></b>        | <b>100<sup>h</sup></b> | <b>61<sup>h</sup></b> | <b>300<sup>h</sup></b> | <29 <sup>h</sup>          | <b>23<sup>h</sup></b> | 18.8               |
| SB-16-20    | 06/13/05              | 20                  | <15                      | <73.4 <sup>i</sup> | <147 <sup>i</sup>  | <0.16                        | <1.3                   | <1.3                  | <1.3                   | <2.7                      | <1.3                  | 13.8               |
| SB-17-5     | 06/14/05              | 5                   | <5.7                     | <26.7              | <53.3              | <0.031                       | <0.25                  | <0.25                 | <0.25                  | <0.51                     | <0.25                 | 17.3               |
| SB-17-9.5   | 06/14/05              | 9.5                 | <5.7                     | <28.5              | <57                | <0.031                       | <0.26                  | <0.26                 | <0.26                  | <0.52                     | <0.26                 | 9.13               |
| SB-17-11    | 06/14/05              | 11                  | <6.5                     | <31.6              | <63.3              | <0.033                       | <0.27                  | <0.27                 | <0.27                  | <0.55                     | <0.27                 | 3.42               |
| SB-17-18.5  | 06/14/05              | 18.5                | <b>36</b>                | 437 <sup>f,i</sup> | 925 <sup>f,i</sup> | <0.043                       | <0.36                  | <0.36                 | <0.36                  | <0.72                     | <0.36                 | 9.2                |
| SB-17-20    | 06/14/05              | 20                  | <b>52<sup>i</sup></b>    | 156 <sup>f</sup>   | 287 <sup>f</sup>   | <0.039                       | <0.32                  | <0.32                 | <0.32                  | <0.65                     | 0.15 <sup>g</sup>     | 9.18               |
| SB-18-5     | 06/14/05              | 5                   | <5.8                     | <26.9              | <53.8              | <0.03                        | <0.25                  | <0.25                 | <0.25                  | <0.5                      | <0.25                 | 3.01               |
| SB-18-9.5   | 06/14/05              | 9.5                 | <5.7                     | <24.4              | <48.8              | <0.028                       | <0.23                  | <0.23                 | <0.23                  | <0.46                     | <0.23                 | <2.06              |
| SB-18-11    | 06/14/05              | 11                  | <6.1                     | <28.7              | <57.3              | <0.034                       | <0.28                  | <0.28                 | <0.28                  | <0.56                     | <0.28                 | <2.17              |
| SB-18-12.5  | 06/14/05              | 12.5                | <6.3                     | <28.4              | <56.9              | <0.032                       | <0.27                  | <0.27                 | <0.27                  | <0.54                     | <0.27                 | 13.2               |
| SB-18-20    | 06/14/05              | 20                  | <6.3                     | <29.3              | <58.6              | <0.033                       | <0.27                  | <0.27                 | <0.27                  | <0.55                     | <0.27                 | <2.2               |
| MW-54-5     | 06/07/05 <sup>b</sup> | 5                   | <b>37</b>                | <29.6              | <59.1              | <b>1.9</b>                   | 3.8                    | 1.2                   | 4.2                    | <0.6                      | 0.14 <sup>g</sup>     | 91.5               |
| MW-54-10    | 06/07/05 <sup>b</sup> | 10                  | <12                      | <29                | <58                | <0.052                       | <0.44                  | <0.44                 | <0.44                  | <0.87                     | <0.44                 | 26.3               |
| MW-54-15    | 06/07/05 <sup>b</sup> | 15                  | 12                       | <50.7              | <101               | <b>0.95</b>                  | 0.21 <sup>g</sup>      | 0.19 <sup>g</sup>     | 0.76                   | <1.3                      | <0.67                 | 94.1               |
| MW-54-20    | 06/07/05 <sup>b</sup> | 20                  | <6.2                     | <28.1              | <56.2              | <0.037                       | <0.27                  | <0.27                 | <0.27                  | <0.54                     | <0.27                 | 2.01               |

**TABLE 1  
ON-SITE ASSESSMENT - SOIL ANALYTICAL RESULTS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D. | Sample Date | Sample Depth (feet) | TPH-Gasoline (mg/kg)   | TPH-Diesel (mg/kg) | TPH-Oil (mg/kg)    | Benzene <sup>a</sup> (mg/kg) | Toluene (mg/kg)        | Ethyl-benzene (mg/kg) | Xylenes (mg/kg)        | MTBE <sup>a</sup> (mg/kg) | Naphthalene (mg/kg)   | Total Lead (mg/kg) |
|-------------|-------------|---------------------|------------------------|--------------------|--------------------|------------------------------|------------------------|-----------------------|------------------------|---------------------------|-----------------------|--------------------|
| MW-55-5     | 06/08/05    | 5                   | <6.7                   | <33.1              | <66.2              | <0.04                        | <0.3                   | <0.3                  | <0.3                   | <0.6                      | 0.72                  | 19.7               |
| MW-55-9     | 06/08/05    | 9                   | <5.5                   | <25.6              | <51.2              | <0.033                       | <0.2                   | <0.2                  | <0.2                   | <0.41                     | <0.2                  | 3.64               |
| MW-55-15    | 06/08/05    | 15                  | <b>31</b>              | 233 <sup>f</sup>   | <184               | <0.44                        | <3.7                   | <3.7                  | <3.7                   | <7.3                      | <b>45</b>             | 23.2               |
| MW-55-20    | 06/08/05    | 20                  | 22                     | 104 <sup>f</sup>   | <102               | <0.31                        | <2.6                   | <2.6                  | <2.6                   | <5.2                      | <b>31</b>             | <3.89              |
| MW-56-5     | 06/09/05    | 5                   | <6.3                   | <30.3              | <60.6              | <0.032                       | <0.27                  | <0.27                 | 0.21 <sup>g</sup>      | <0.54                     | <0.27                 | 5.23               |
| MW-56-9     | 06/09/05    | 9                   | 8.6                    | <30.6              | <61.2              | <b>0.34</b>                  | <0.28                  | 0.17 <sup>g</sup>     | 0.24 <sup>g</sup>      | <0.56                     | <0.28                 | 4.41               |
| MW-56-10    | 06/09/05    | 10                  | <b>200<sup>i</sup></b> | <27.6              | <55.3              | <b>0.13</b>                  | <0.25                  | 2.8                   | <0.25                  | <0.49                     | 0.92                  | 4.5                |
| MW-56-12    | 06/09/05    | 12                  | <5.7                   | <27.4              | <54.7              | <b>0.13</b>                  | <0.21                  | <0.21                 | <0.21                  | <0.42                     | <0.21                 | 2.25               |
| MW-56-15    | 06/09/05    | 15                  | <6                     | 100 <sup>e</sup>   | 278                | <0.027                       | <0.23                  | <0.23                 | <0.23                  | <0.46                     | <0.23                 | 2.91               |
| MW-56-18    | 06/09/05    | 18                  | <11                    | <53.1              | <106               | <0.064                       | <0.54                  | <0.54                 | <0.54                  | <1.1                      | <0.54                 | 9.83               |
| MW-56-20    | 06/09/05    | 20                  | <16                    | <75.3              | <151               | <0.13                        | <1.1                   | <1.1                  | <1.1                   | <2.2                      | <1.1                  | 14                 |
| MW-57-5     | 06/10/05    | 5                   | 9.6                    | <27.1              | <54.2              | <0.029                       | <0.24                  | <0.24                 | <0.24                  | <0.49                     | <0.24                 | <1.89              |
| MW-57-11    | 06/10/05    | 11                  | <b>45</b>              | 202 <sup>e</sup>   | 720                | <b>1.9<sup>i</sup></b>       | <0.44 <sup>i</sup>     | 2.2 <sup>i</sup>      | 7.1 <sup>i</sup>       | <0.89 <sup>j</sup>        | 0.16 <sup>g,i</sup>   | 7.38               |
| MW-57-12.5  | 06/10/05    | 12.5                | <b>410</b>             | 54.5 <sup>e</sup>  | <57.9              | <b>23<sup>h</sup></b>        | <b>250<sup>h</sup></b> | <b>95<sup>h</sup></b> | <b>540<sup>h</sup></b> | <5 <sup>h</sup>           | <b>53<sup>h</sup></b> | 13.6               |
| MW-57-20    | 06/10/05    | 20                  | <6.3                   | 408 <sup>f</sup>   | 1,540 <sup>f</sup> | <0.033                       | 0.11 <sup>g</sup>      | <0.27                 | <0.27                  | <0.54                     | 0.19 <sup>g</sup>     | 172                |
| MW-59-5     | 06/14/05    | 5                   | <6                     | <29                | <58                | <0.034                       | <0.29                  | <0.29                 | <0.29                  | <0.57                     | <0.29                 | 5.1                |
| MW-59-9.5   | 06/14/05    | 9.5                 | <9.5                   | <44.2 <sup>i</sup> | <88.4 <sup>i</sup> | <b>0.055</b>                 | <0.39                  | <0.39                 | <0.39                  | <0.78                     | <0.39                 | 43.1               |
| MW-59-11    | 06/14/05    | 11                  | 7.6                    | <27.8              | <55.7              | <b>0.057</b>                 | 0.22 <sup>g</sup>      | 0.093 <sup>g</sup>    | 0.54                   | <0.56                     | 0.22 <sup>g</sup>     | 4.73               |
| MW-59-12.5  | 06/14/05    | 12.5                | 10                     | 53.6 <sup>e</sup>  | 129                | <0.03                        | <0.25                  | <0.25                 | 0.13 <sup>g</sup>      | <0.51                     | <0.25                 | 5.65               |
| MW-59-14    | 06/14/05    | 14                  | <b>34</b>              | 55.6 <sup>c</sup>  | <59.7              | <b>1.2</b>                   | <0.28                  | 2.9                   | 0.56                   | <0.56                     | 1.1                   | 26.1               |
| MW-59-15.5  | 06/14/05    | 15.5                | <b>230<sup>i</sup></b> | <30.7              | <61.4              | <b>0.92</b>                  | <0.28                  | 3.6                   | 0.13 <sup>g</sup>      | <0.57                     | 3.9                   | <2.19              |
| MW-59-17    | 06/14/05    | 17                  | <b>310</b>             | 208 <sup>c</sup>   | <58.4              | <b>1.7</b>                   | <1.3                   | <b>7</b>              | <b>16</b>              | <2.6                      | 3.8                   | 65.1               |
| MW-59-20    | 06/14/05    | 20                  | <6.6                   | <35                | <70                | <b>0.053</b>                 | <0.34                  | <0.34                 | <0.34                  | <0.67                     | <0.34                 | 9.28               |

**TABLE 1  
ON-SITE ASSESSMENT - SOIL ANALYTICAL RESULTS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.  | Sample Date | Sample Depth (feet) | TPH-Gasoline (mg/kg)      | TPH-Diesel (mg/kg)       | TPH-Oil (mg/kg)  | Benzene <sup>a</sup> (mg/kg) | Toluene (mg/kg)        | Ethyl-benzene (mg/kg)  | Xylenes (mg/kg)        | MTBE <sup>a</sup> (mg/kg) | Naphthalene (mg/kg)     | Total Lead (mg/kg) |
|--|-------------|---------------------|---------------------------|--------------------------|------------------|------------------------------|------------------------|------------------------|------------------------|---------------------------|-------------------------|--------------------|
| <b>MW-60-5</b>   | 06/14/05    | 5                   | <5.8                      | <26.2                    | <52.4            | <0.033                       | <0.27                  | <0.27                  | <0.27                  | <0.54                     | <0.27                   | <1.96              |
| <b>MW-60-9.5</b>   | 06/14/05    | 9.5                 | 13                        | <28.5                    | <57              | <b>0.17</b>                  | <0.26                  | 0.26                   | 0.66                   | <0.52                     | <0.26                   | <2.22              |
| <b>MW-60-11</b>  | 06/14/05    | 11                  | <b>140<sup>i</sup></b>    | <27.3                    | <54.6            | <b>1</b>                     | 0.11 <sup>g</sup>      | 2.8                    | 2.1                    | <0.71                     | 0.13 <sup>g</sup>       | <1.99              |
| <b>MW-60-12.5</b>  | 06/14/05    | 12.5                | <b>7,100<sup>h</sup></b>  | 570 <sup>c</sup>         | 85.5             | <b>5.6<sup>h</sup></b>       | <b>77<sup>h</sup></b>  | <b>63<sup>h</sup></b>  | <b>370<sup>h</sup></b> | <24 <sup>h</sup>          | <b>29<sup>h</sup></b>   | 20.2               |
| <b>MW-60-14</b>  | 06/14/05    | 14                  | <b>10,000<sup>h</sup></b> | <b>2,080<sup>c</sup></b> | 362              | <b>65<sup>h</sup></b>        | <b>380<sup>h</sup></b> | <b>190<sup>h</sup></b> | <b>980<sup>h</sup></b> | <210 <sup>h</sup>         | <b>67<sup>g,h</sup></b> | 6.73               |
| <b>MW-60-15.5</b>  | 06/14/05    | 15.5                | 14                        | 192 <sup>e</sup>         | 999              | <b>0.37</b>                  | 0.3                    | 0.3                    | 1.2                    | <0.48                     | 0.11 <sup>g</sup>       | 3.1                |
| <b>MW-60-20</b>  | 06/14/05    | 20                  | <b>37</b>                 | 439 <sup>e,i</sup>       | 862 <sup>i</sup> | <b>0.52</b>                  | 2.2                    | 0.56 <sup>g</sup>      | 2.4                    | <4.2                      | <2.1                    | 67.9               |
| <b>MTCA Method A Soil Cleanup Level for Unrestricted Land Uses</b> |             |                     | <b>30<sup>k</sup></b>     | <b>2,000</b>             | <b>2,000</b>     | <b>0.03</b>                  | <b>7</b>               | <b>6</b>               | <b>9</b>               | <b>0.1</b>                | <b>5</b>                | <b>250</b>         |

**Notes:**

mg/kg = milligrams per kilogram

<n = Below the detection limit

TPH as Gasoline - Analysis by Northwest Method NWTPH-Gx; results reported by laboratory in micrograms per kilogram (ug/kg)

TPH as Diesel and Oil - Analysis by Northwest Method NWTPH-Dx with silica gel cleanup

BTEX Compounds, MTBE (Methyl tert-Butyl Ether), and Naphthalene - Analysis by EPA Method 8260B; results reported by laboratory in ug/kg

Total Lead - Analysis by EPA Method 6010.

Values in **BOLD** are detectable concentrations exceeding the MTCA Method A soil cleanup level.

<sup>a</sup> Due to laboratory limitations, method reporting limits for benzene and MTBE exceed MTCA Method A soil cleanup levels for most samples.

<sup>b</sup> Due to laboratory error, samples collected on June 7, 2005 were transferred from STL Seattle to STL Sacramento without ice or other cooling media and were received at STL Sacramento at 22°C. The TPH-G, BTEX, MTBE, and Naphthalene results for these samples may be biased low due to the higher temperature.

<sup>c</sup> Chromatogram suggests this might be overlap from gasoline range.

<sup>d</sup> Chromatogram suggests this might be aged or degraded diesel.

<sup>e</sup> Chromatogram suggests this might be overlap from motor oil range.

<sup>f</sup> Contaminant does not appear to be "typical" product.

<sup>g</sup> Analyte was positively identified during analysis, but the associated numerical value is an estimated quantity and is less than the reporting limit.

<sup>h</sup> Surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

<sup>i</sup> Surrogate recovery outside advisory QC limits due to matrix interference.

<sup>j</sup> Due to low soil recovery during drilling at the 14-foot depth in SB-12, there was insufficient sample to analyze for NWTPH-Dx, lead, and dry weight. Therefore a limited sample was submitted for analyses of NWTPH-Gx, BTEX, MTBE, and Naphthalene. Analytical results are based on wet weight for the sample.

<sup>k</sup> MTCA Method A Cleanup Level for TPH-Gasoline is 100 mg/kg if benzene is not detectable in soil.

**TABLE 2  
NEW WELLS - GROUNDWATER MONITORING RESULTS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.   | Sample Date | TPH- Gasoline (µg/l)   | TPH- Diesel (µg/l)         | TPH- Oil (µg/l)     | Benzene (µg/l) | Toluene (µg/l) | Ethyl- benzene (µg/l) | Xylenes (µg/l) | MTBE (µg/l) | DO (mg/l) | DTW (feet) | SPH (feet) |
|---|-------------|------------------------|----------------------------|---------------------|----------------|----------------|-----------------------|----------------|-------------|-----------|------------|------------|
| <b>MW-54</b>  | 06/16/05    | 206                    | 130 <sup>a</sup>           | 410                 | 4.82           | <1             | 2.09                  | 10.27          | <1          | 1.4       | 9.09       | 0.00       |
| <b>MW-55</b>  | 06/16/05    | <b>2,240</b>           | <b>3,100<sup>a,b</sup></b> | <2,500 <sup>b</sup> | <2             | <2             | <2                    | <4             | <2          | 0.7       | 10.53      | 0.00       |
| <b>MW-56</b>  | 06/16/05    | 135                    | 210 <sup>a</sup>           | 380 <sup>a</sup>    | <1             | <1             | <1                    | <2             | 1.29        | 1.1       | 10.91      | 0.00       |
| <b>MW-57</b>  | 06/16/05    | <b>16,900</b>          | <b>1,800<sup>a</sup></b>   | <1,200              | <b>525</b>     | <b>2,310</b>   | 327                   | <b>2,188</b>   | <20         | 1.1       | 10.54      | 0.00       |
| <b>MW-58</b>  | 06/16/05    | <b>3,970</b>           | 420 <sup>a</sup>           | <250                | <b>628</b>     | 499            | 143                   | 541            | <5          | 1.3       | 11.71      | 0.00       |
| <b>MW-59</b>  | 06/16/05    | <b>10,100</b>          | <b>1,700<sup>a</sup></b>   | <1,200              | <b>519</b>     | <10            | 176                   | 725.2          | <10         | 1.0       | 12.00      | 0.00       |
| <b>MW-60</b>  | 06/16/05    | <b>64,300</b>          | <b>4,300<sup>a,b</sup></b> | <5,000 <sup>b</sup> | <b>4,100</b>   | <b>6,820</b>   | <b>2,260</b>          | <b>10,610</b>  | <40         | 0.8       | 11.54      | Sheen      |
| <b>MTCA Method A Cleanup Level for Groundwater</b>  |             | <b>800<sup>c</sup></b> | <b>500</b>                 | <b>500</b>          | <b>5</b>       | <b>1,000</b>   | <b>700</b>            | <b>1,000</b>   | <b>20</b>   | -         | -          | -          |
| <b>Notes:</b>   |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| µg/l = micrograms per liter   |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| TOC = Relative top of casing elevation  |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| DO = Dissolved oxygen concentration, measured in the field with a dissolved oxygen meter  |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| DTW = Depth to water  |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| SPH = Separate-phase hydrocarbon thickness  |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| <n = Below the detection limit  |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| TPH as Gasoline - Analysis by Northwest Method NWTPH-Gx   |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| TPH as Diesel and Oil - Analysis by Northwest Method NWTPH-Dx   |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| BTEX Compounds - Analysis by EPA Method 8260B   |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| MTBE (methyl tert-butyl ether) - Analysis by EPA Method 8260B   |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| Values in <b>BOLD</b> are detectable concentrations exceeding the MTCA Method A groundwater cleanup level.                      |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| <sup>a</sup> Contaminant does not appear to be "typical" product.   |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| <sup>b</sup> Surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery. |             |                        |                            |                     |                |                |                       |                |             |           |            |            |
| <sup>c</sup> MTCA Method A Cleanup Level for TPH-Gasoline is 1,000 µg/l if benzene is not detectable in groundwater.            |             |                        |                            |                     |                |                |                       |                |             |           |            |            |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC       | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>SMW-3<sup>a</sup></b> | 03/08/95              | <50                        | 400                      | 2,500                 | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 10.25         | 0.00          | --            |
|                          | 06/06/95              | <50                        | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 10.23         | 0.00          | --            |
|                          | 09/07/95              | <50                        | 300                      | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 10.89         | 0.00          | --            |
|                          | 12/08/95              | <50                        | 300                      | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 10.36         | 0.00          | --            |
|                          | 04/01/96              | 34,000                     | 4,000                    | 2,300                 | 6,400             | 42                | 2,100                       | 3,000             | --             | --           | 10.07         | 0.00          | --            |
|                          | 06/25/96              | <50.0                      | 320                      | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 10.19         | 0.00          | --            |
|                          | 09/27/96              | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 11.12         | 0.00          | --            |
|                          | 03/28/97              | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 10.19         | 0.00          | --            |
|                          | 06/30/97 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 10.14         | 0.00          | --            |
|                          | 09/08/97 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 10.85         | 0.00          | --            |
|                          | 12/19/97 <sup>2</sup> | <50.0                      | 521                      | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.67          | 0.00          | --            |
|                          | 03/16/98 <sup>2</sup> | 50                         | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.28          | 0.00          | --            |
|                          | 06/26/98 <sup>2</sup> | <50.0                      | 500                      | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.87          | 0.00          | --            |
|                          | 09/23/98 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.88          | 0.00          | --            |
|                          | 12/17/98 <sup>2</sup> | <50.0                      | 293                      | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.22          | 0.00          | --            |
|                          | 03/31/99 <sup>2</sup> | <50.0                      | 360                      | <750                  | <0.500            | <0.500            | 0.53                        | 4.97              | --             | --           | 9.01          | 0.00          | --            |
|                          | 06/30/99 <sup>2</sup> | <50.0                      | 639                      | <750                  | <0.500            | 0.61              | <0.500                      | 1.32              | --             | --           | 9.55          | 0.00          | --            |
|                          | 12/08/99 <sup>2</sup> | <50.0                      | <484                     | <1,450                | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.75          | 0.00          | --            |
|                          | 06/20/00 <sup>b</sup> | <50.0                      | <250                     | <750                  | <0.500            | 0.59              | <0.500                      | 1.86              | --             | --           | 8.89          | 0.00          | --            |
|                          | 12/19/00              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 06/15/01 <sup>b</sup> | <50.0                      | 368                      | <866                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 7.23          | 0.00          | --            |
|                          | 06/26/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/07/01 <sup>b</sup> | <50.0                      | 385                      | <571                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.19          | 0.00          | --            |
|                          | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 12/28/01              | <50.0                      | <b>1,160</b>             | <500                  | <0.500            | 0.902             | <0.500                      | 2.78              | --             | --           | 8.89          | 0.00          | --            |
|                          | 03/08/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 06/24/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/26/02              | <100                       | <250                     | <500                  | 1.83              | <2.00             | <1.00                       | <1.50             | --             | --           | 10.32         | 0.00          | --            |
|                          | 12/12/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 03/13/03              | <50.0                      | <250                     | <500                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 10.99         | 0.00          | --            |
|                          | 06/12/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/19/03              | <50.0                      | <287                     | <575                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 11.00         | 0.00          | --            |
|                          | 01/14/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 03/30/04              | <100                       | <119                     | <238                  | <1                | <1                | <1                          | <2                | --             | 2.10         | 10.42         | 0.00          | --            |
|                          | 06/22/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/29/04              | 56                         | <242                     | <483                  | <0.50             | <0.50             | <0.50                       | <1.0              | --             | 0.1          | 11.67         | 0.00          | --            |
|                          | 12/29/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 03/17/05              | <100                       | <248                     | <495                  | <1                | <1                | <1                          | <2                | --             | 1.2          | 11.68         | 0.00          | --            |
|                          | 06/01/05              | <100                       | <249                     | <498                  | <1                | <1                | <1                          | <2                | <1             | 1.3          | 10.62         | 0.00          | --            |
| <b>SMW-4<sup>a</sup></b> | 03/08/95              | 39,000                     | 4,100                    | 5,100                 | 13,000            | <250              | 2,400                       | 8,200             | --             | --           | 8.14          | 0.00          | --            |
|                          | 06/06/95              | 41,000                     | 5,500                    | <750                  | 9,400             | 44                | 2,700                       | 4,900             | --             | --           | 8.90          | 0.00          | --            |
|                          | 09/07/95              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 8.99          | 0.00          | --            |
|                          | 12/08/95              | 40,000                     | 1,500                    | 920                   | 8,100             | 57.00             | 2,600                       | 3,600             | --             | --           | 7.56          | 0.00          | --            |
|                          | 04/01/96              | <50                        | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 8.13          | 0.00          | --            |
|                          | 06/25/96              | 28,100                     | 2,680                    | 630                   | 3,900             | 81.4              | 1,710                       | 1,710             | --             | --           | 8.20          | 0.00          | --            |
|                          | 09/27/96              | 28,600                     | 2,460                    | <750                  | 6,090             | <0.500            | 2,060                       | 1,730             | --             | --           | 8.62          | 0.00          | --            |
|                          | 03/28/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 8.20          | 0.00          | --            |
|                          | 06/30/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 8.06          | 0.00          | --            |
|                          | 09/08/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.00          | 0.00          | --            |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC       | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>SMW-4</b>             | 12/19/97              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 9.41          | 0.04          | --            |
| <b>(cont'd)</b>          | 03/16/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.09          | 0.00          | --            |
|                          | 06/26/98              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 8.76          | Trace         | --            |
|                          | 09/23/98              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 9.96          | 0.05          | --            |
|                          | 12/17/98              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 10.22         | Trace         | --            |
|                          | 03/31/99              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 8.70          | Trace         | --            |
|                          | 06/30/99              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 8.20          | Trace         | --            |
|                          | 12/08/99              | Inaccessible               |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                          | 06/20/00              | Inaccessible               |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                          | 12/19/00              | Inaccessible               |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                          | 06/15/01              | Inaccessible               |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                          | 06/26/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/07/01              | Inaccessible               |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                          | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 12/28/01              | Inaccessible               |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                          | 03/08/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 06/24/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/26/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 12/12/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 03/13/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.55          | 0.00          | --            |
|                          | 06/12/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/19/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.58         | 0.00          | --            |
|                          | 01/14/04              | Monitoring Discontinued    |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
| <b>MW-3</b>              | 02/14/88              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.77          | Trace         | 9.61          |
| 19.38                    | 05/15/88              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.36          | 0.00          | 10.02         |
|                          | 07/20/88              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 04/14/89              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.04          | Trace         | 10.34         |
|                          | 10/27/89              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.30          | 0.00          | 10.08         |
|                          | 02/01/90              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 05/01/90              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.13          | 0.00          | 10.25         |
|                          | 06/15/90              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 12/07/90              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 8.99          | 0.00          | 10.39         |
|                          | 10/10/01              | <b>14,100</b>              | <b>4,060</b>             | <b>1,990</b>          | <b>1,070</b>      | <25.0             | <b>1,040</b>                | 292               | --             | --           | 10.11         | 0.00          | 9.27          |
|                          | 12/28/01              | <b>3,340</b>               | <b>1,810</b>             | <500                  | <b>92.6</b>       | 4.62              | 146                         | 51.2              | --             | --           | 9.61          | 0.00          | 9.77          |
|                          | 03/08/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 06/24/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/26/02 <sup>c</sup> | <b>10,500</b>              | <b>1,820</b>             | <500                  | <b>326</b>        | 14.0              | 685                         | 447               | --             | --           | 10.96         | 0.00          | 8.42          |
|                          | 12/12/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 03/13/03              | <b>17,200</b>              | <b>1,440</b>             | <595                  | <b>86.6</b>       | 38.1              | 434                         | 798               | --             | --           | 7.87          | 0.00          | 11.51         |
|                          | 06/12/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/19/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 01/14/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 03/30/04              | <b>3,040</b>               | <b>1,950</b>             | <285                  | <b>57.1</b>       | <5                | 24.3                        | 23.57             | --             | 0.79         | 9.90          | 0.00          | 9.48          |
|                          | 06/22/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/29/04              | Paved over with concrete   |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
| <b>MW-3A<sup>a</sup></b> | 03/17/05              | <b>1,610</b>               | <251                     | <502                  | 2.54              | 1.23              | 30.9                        | 156.8             | --             | 0.7          | 11.00         | 0.00          | --            |
|                          | 06/01/05              | <b>1,030<sup>j</sup></b>   | <241 <sup>i</sup>        | <483                  | <b>5.21</b>       | <1                | 27.8                        | 66.0              | <1             | 1.1          | 10.29         | 0.00          | --            |



**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date | TPH-<br>Gasoline<br>(µg/l)                        | TPH-<br>Diesel<br>(µg/l)   | TPH-<br>Oil<br>(µg/l)     | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|----------------|---|----------------------------|---------------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-13</b>       | 02/14/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 11.87         | 0.00          | 9.86          |
| 21.73              | 05/15/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 11.43         | 0.00          | 10.30         |
|                    | 07/20/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 04/14/89       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 11.10         | 0.00          | 10.63         |
|                    | 10/27/89       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 11.36         | 0.03          | 10.39         |
|                    | 02/01/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.97         | 0.00          | 10.76         |
|                    | 05/01/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 11.13         | 0.00          | 10.60         |
|                    | 06/15/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/07/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 11.11         | 0.00          | 10.62         |
|                    | 06/16/05       | <b>1,820</b>                                      | <b>880<sup>f</sup></b>     | <b>1,100<sup>f</sup></b>  | 2.91              | <1                | <1                          | <2                | <1             | 1.3          | 11.86         | 0.00          | 9.87          |
| <b>MW-14</b>       | 02/14/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 9.65          | 0.00          | 9.63          |
| 19.28              | 05/15/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 8.95          | 0.00          | 10.33         |
|                    | 07/20/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 04/14/89       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 8.95          | 0.00          | 10.33         |
|                    | 10/27/89       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 9.16          | 0.00          | 10.12         |
|                    | 02/01/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 9.15          | 0.00          | 10.13         |
|                    | 05/01/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 8.99          | 0.00          | 10.29         |
|                    | 06/15/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/07/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 9.04          | 0.00          | 10.24         |
|                    | 06/02/05       | Unable to collect sample                          |                            |                           |                   |                   |                             |                   |                | 1.4          | 8.35          | 0.00          | 10.93         |
|                    | 06/16/05       | Not enough water in well to sample                |                            |                           |                   |                   |                             |                   |                | --           | 8.60          | 0.00          | 10.68         |
| <b>MW-15</b>       | 02/14/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.62         | 0.00          | 9.86          |
| 20.48              | 05/15/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.18         | 0.00          | 10.30         |
|                    | 07/20/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 04/14/89       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 9.96          | 0.00          | 10.52         |
|                    | 10/27/89       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.28         | 0.00          | 10.20         |
|                    | 02/01/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.17         | 0.00          | 10.31         |
|                    | 05/01/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.18         | 0.00          | 10.30         |
|                    | 06/15/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/07/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.13         | 0.00          | 10.35         |
|                    | 06/02/05       | Well casing is broken - unable to gauge or sample |                            |                           |                   |                   |                             |                   |                | --           | --            | --            | --            |
| <b>MW-16</b>       | 02/14/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 11.15         | 0.00          | 10.04         |
| 21.19              | 05/15/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.76         | 0.00          | 10.43         |
|                    | 07/20/88       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 04/14/89       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.54         | 0.00          | 10.65         |
|                    | 10/27/89       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.80         | 0.00          | 10.39         |
|                    | 02/01/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.60         | 0.00          | 10.59         |
|                    | 05/01/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.59         | 0.00          | 10.60         |
|                    | 06/15/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/07/90       | --  | --                         | --                        | --                | --                | --                          | --                | --             | --           | 10.58         | 0.00          | 10.61         |
|                    | 06/02/05       | Unable to collect sample                          |                            |                           |                   |                   |                             |                   |                | 1.0          | 10.95         | 0.00          | 10.24         |
|                    | 06/16/05       | <500  | <b>4,000<sup>h,i</sup></b> | <b>16,000<sup>j</sup></b> | <b>135</b>        | <5                | <5                          | <10               | <5             | 0.6          | 10.86         | 0.00          | 10.33         |

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AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC       | Sample<br>Date | TPH-<br>Gasoline<br>(µg/l)                                | TPH-<br>Diesel<br>(µg/l)    | TPH-<br>Oil<br>(µg/l)         | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------------|----------------|---|-----------------------------|-------------------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-17</b>             | 02/14/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 11.56         | 0.07          | 9.77          |
| 21.28                    | 05/15/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 11.22         | 0.04          | 10.09         |
|                          | 07/20/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 04/14/89       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.75         | 0.00          | 10.53         |
|                          | 10/27/89       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 11.22         | 0.00          | 10.06         |
|                          | 02/01/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.71         | 0.00          | 10.57         |
|                          | 05/01/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.90         | 0.00          | 10.38         |
|                          | 06/15/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 12/07/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.78         | 0.00          | 10.50         |
|                          | 06/02/05       | Well obstructed with soil at 2.2 feet below top of casing |                             |                               |                   |                   |                             |                   |                | --           | --            | --            | --            |
| <b>MW-18</b>             | 02/14/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 11.11         | 0.00          | 9.98          |
| 21.09                    | 05/15/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.78         | 0.06          | 10.36         |
|                          | 07/20/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 04/14/89       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.20         | 0.00          | 10.89         |
|                          | 10/27/89       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.83         | 0.00          | 10.26         |
|                          | 02/01/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.42         | Trace         | 10.67         |
|                          | 05/01/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.61         | 0.00          | 10.48         |
|                          | 06/15/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 12/07/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.36         | 0.00          | 10.73         |
|                          | 06/02/05       | <b>6,600</b>  | <b>18,000<sup>f,i</sup></b> | <b>28,800<sup>j</sup></b>     | <b>403</b>        | 434               | 91.9                        | 779               | <1             | 1.1          | 10.83         | 0.00          | 10.26         |
| <b>MW-19</b>             | 02/14/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 11.24         | 0.23          | 9.91          |
| 20.97                    | 05/15/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 11.07         | 0.44          | 10.25         |
|                          | 07/20/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 04/14/89       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.78         | 0.57          | 10.65         |
|                          | 10/27/89       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.96         | Trace         | 10.01         |
|                          | 02/01/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 11.04         | Trace         | 9.93          |
|                          | 05/01/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.76         | 0.43          | 10.55         |
|                          | 06/15/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.70         | 0.47          | 10.65         |
|                          | 12/07/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.19         | 0.00          | 10.78         |
|                          | 06/02/05       | Unable to collect sample                                  |                             |                               |                   |                   |                             |                   |                | 1.3          | 10.95         | 0.00          | 10.02         |
|                          | 06/16/05       | <b>117,000</b>  | <b>31,000<sup>f,i</sup></b> | <b>&lt;12,000<sup>j</sup></b> | <b>391</b>        | 380               | 121                         | <b>21,960</b>     | <b>&lt;50</b>  | 1.2          | 10.92         | 0.00          | 10.05         |
| <b>MW-24</b>             | 02/14/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | Dry           | --            | --            |
| 21.49                    | 05/15/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | Dry           | --            | --            |
|                          | 07/20/88       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | Dry           | --            | --            |
|                          | 04/14/89       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 10.71         | 0.00          | 10.78         |
|                          | 10/27/89       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | Dry           | --            | --            |
|                          | 02/01/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | Dry           | --            | --            |
|                          | 05/01/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | 11.36         | 0.66          | 10.66         |
|                          | 06/15/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 12/07/90       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | Dry           | --            | --            |
|                          | 06/02/05       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | Dry           | --            | --            |
|                          | 06/16/05       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | Dry           | --            | --            |
| <b>MW-27<sup>a</sup></b> | 06/16/05       | --  | --                          | --                            | --                | --                | --                          | --                | --             | --           | Dry           | --            | --            |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-32A</b>      | 11/04/91              | <b>52,000</b>              | <1,000                   | --                    | <b>10,000</b>     | <b>10,000</b>     | <b>2,000</b>                | <b>10,000</b>     | --             | --           | --            | --            | --            |
| 20.70              | 12/29/93              | <b>19,000</b>              | <b>2,900</b>             | <b>1,300</b>          | <b>6,300</b>      | 990               | <b>940</b>                  | <b>1,700</b>      | --             | --           | 10.73         | 0.00          | 9.97          |
|                    | 04/07/94              | <b>11,000</b>              | <b>2,100</b>             | <b>1,300</b>          | <b>3,900</b>      | 150               | 490                         | 590               | --             | --           | 10.65         | 0.00          | 10.05         |
|                    | 07/14/94              | <b>9,900</b>               | <b>1,700</b>             | <b>1,500</b>          | <b>5,600</b>      | 54                | 530                         | 500               | --             | --           | 10.72         | 0.00          | 9.98          |
|                    | 10/25/94              | <b>19,000</b>              | <b>1,100</b>             | <b>1,000</b>          | <b>4,600</b>      | <b>2,300</b>      | 560                         | <b>2,300</b>      | --             | --           | 11.46         | 0.00          | 9.24          |
|                    | 03/08/95              | <b>21,000</b>              | <b>2,300</b>             | <b>2,300</b>          | <b>5,800</b>      | <b>1,700</b>      | 990                         | <b>2,900</b>      | --             | --           | 11.29         | 0.00          | 9.41          |
|                    | 06/06/95              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/95              | <b>20,000</b>              | <b>2,500</b>             | <b>1,600</b>          | <b>4,200</b>      | 470               | <b>730</b>                  | <b>2,000</b>      | --             | --           | 11.27         | --            | 9.43          |
|                    | 12/08/95              | <b>11,000</b>              | <b>1,200</b>             | <750                  | <b>1,600</b>      | 86                | 420                         | 910               | --             | --           | 10.61         | --            | 10.09         |
|                    | 04/01/96              | <b>7,900</b>               | <b>1,400</b>             | <b>1,000</b>          | <b>2,200</b>      | 58                | 300                         | 490               | --             | --           | 10.90         | --            | 9.80          |
|                    | 06/25/96              | <b>7,500</b>               | <b>1,250</b>             | <750                  | <b>1,200</b>      | 60.4              | 217                         | 435               | --             | --           | 10.98         | --            | 9.72          |
|                    | 09/27/96              | <b>7,050</b>               | <b>1,040</b>             | <750                  | <b>1,570</b>      | 37.4              | 264                         | 416               | --             | --           | 11.37         | --            | 9.33          |
|                    | 03/28/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.26         | --            | 9.44          |
|                    | 06/30/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.89         | --            | 9.81          |
|                    | 09/08/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.67         | 0.00          | 9.03          |
|                    | 12/19/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.42         | 0.00          | 9.28          |
|                    | 03/16/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.30         | 0.00          | 9.40          |
|                    | 06/26/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.29         | 0.00          | 9.41          |
|                    | 09/23/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.97         | 0.00          | 8.73          |
|                    | 12/17/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.09         | 0.00          | 9.61          |
|                    | 03/31/99              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.47         | 0.00          | 10.23         |
|                    | 06/30/99              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.60          | 0.00          | 11.10         |
|                    | 12/08/99              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.07         | 0.00          | 9.63          |
|                    | 06/20/00              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.40         | 0.00          | 9.30          |
|                    | 12/19/00 <sup>b</sup> | <b>7,010</b>               | <b>1,740</b>             | <750                  | <b>4,430</b>      | 136               | 438                         | 182               | --             | --           | 10.90         | 0.00          | 9.80          |
|                    | 06/15/01 <sup>b</sup> | <b>13,700</b>              | <b>2,810</b>             | <846                  | <b>2,370</b>      | 11.2              | 272                         | 31.1              | --             | --           | 11.31         | 0.00          | 9.39          |
|                    | 06/26/01 <sup>b</sup> | <b>15,500</b>              | <b>1,620</b>             | <750                  | <b>8,780</b>      | <b>1,110</b>      | <b>1,230</b>                | <b>1,020</b>      | --             | --           | 11.85         | 0.00          | 8.85          |
|                    | 09/07/01 <sup>b</sup> | <b>17,100</b>              | <b>4,220</b>             | <b>822</b>            | <b>5,870</b>      | 19.9              | 684                         | 110               | --             | --           | 10.81         | 0.00          | 9.89          |
|                    | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01              | <b>12,200</b>              | <b>4,260</b>             | <b>711</b>            | <b>3,570</b>      | 180               | 537                         | 393               | --             | --           | 11.29         | 0.00          | 9.41          |
|                    | 03/08/02              | <b>16,400</b>              | <b>4,140</b>             | <b>769</b>            | <b>4,900</b>      | 142               | 619                         | 247               | --             | --           | 11.49         | 0.00          | 9.21          |
|                    | 06/24/02              | <b>6,850</b>               | <b>2,040</b>             | <b>577</b>            | <b>2,820</b>      | 7.43              | 221                         | 59.1              | --             | --           | 11.56         | 0.00          | 9.14          |
|                    | 09/26/02 <sup>c</sup> | <b>6,580</b>               | <b>3,740</b>             | <b>670</b>            | <b>1,930</b>      | 31.4              | 204                         | 89.7              | --             | --           | 12.88         | 0.00          | 7.82          |
|                    | 12/12/02              | <b>6,750</b>               | <b>3,530</b>             | <b>528</b>            | <b>1,450</b>      | 55.6              | 229                         | 283               | --             | --           | 12.72         | 0.00          | 7.98          |
|                    | 03/13/03              | <b>13,000</b>              | <b>2,550</b>             | <581                  | <b>1,990</b>      | 222               | 419                         | 806               | --             | --           | 10.95         | 0.00          | 9.75          |
|                    | 06/12/03              | <b>17,400</b>              | <b>2,730</b>             | <500                  | <b>4,830</b>      | 200               | <b>745</b>                  | 262               | --             | --           | 11.92         | 0.00          | 8.78          |
|                    | 09/19/03              | <b>1,420</b>               | <294                     | <588                  | <b>64.2</b>       | 42.7              | 7.49                        | 135               | --             | --           | 12.67         | 0.00          | 8.03          |
|                    | 01/14/04              | <b>1,580</b>               | 316                      | <253                  | <b>28.9</b>       | 4.13              | 13.1                        | 32.5              | --             | 3.1          | 11.33         | 0.00          | 9.37          |
|                    | 03/30/04              | <b>7,310</b>               | <b>838</b>               | <276                  | <b>18.3</b>       | <10               | 209                         | 122               | --             | 2.43         | 12.39         | 0.00          | 8.31          |
|                    | 06/22/04              | <b>3,330</b>               | <b>1,470</b>             | 381                   | <b>149</b>        | <10               | 72.5                        | 43.8              | --             | 0.5          | 12.62         | 0.00          | 8.08          |
|                    | 09/29/04              | 330                        | <242                     | <484                  | <b>13</b>         | 1.6               | 3.7                         | 39                | --             | 6.1          | 9.20          | 0.00          | 11.50         |
|                    | 12/29/04              | <b>1,500</b>               | <b>592</b>               | <478                  | <b>71</b>         | <5                | 30.9                        | 31.2              | --             | 1.0          | 12.24         | 0.00          | 8.46          |
|                    | 03/17/05              | <100                       | <239                     | <478                  | <1                | <1                | <1                          | <2                | --             | 0.9          | 12.31         | 0.00          | 8.39          |
|                    | 06/01/05              | 205                        | <237                     | <473                  | <b>13.2</b>       | <1                | 5.55                        | 6.16              | <1             | 2.6          | 11.76         | 0.00          | 8.94          |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|----------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-33</b>       | 11/04/91       | <b>11,000</b>              | <1,000                   | --                    | <b>550</b>        | 490               | 240                         | <b>1,300</b>      | --             | --           | --            | --            | --            |
| 20.75              | 12/29/93       | <b>7,200</b>               | <b>1,100</b>             | <750                  | <b>560</b>        | 100               | 250                         | <b>1,100</b>      | --             | --           | 10.82         | 0.00          | 9.93          |
|                    | 04/07/94       | <b>3,500</b>               | <b>1,000</b>             | <b>1,100</b>          | <b>220</b>        | 1.5               | 80                          | 190               | --             | --           | 10.60         | 0.00          | 10.15         |
|                    | 03/08/95       | <b>4,900</b>               | <b>1,400</b>             | <b>2,000</b>          | <b>650</b>        | <25               | 320                         | 420               | --             | --           | 11.16         | 0.00          | 9.59          |
|                    | 06/06/95       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/95       | <b>9,700</b>               | <b>1,400</b>             | <b>820</b>            | <b>550</b>        | 140               | 230                         | 620               | --             | --           | 11.20         | 0.00          | 9.55          |
|                    | 12/08/95       | <b>13,000</b>              | <b>1,900</b>             | <b>1,800</b>          | <b>800</b>        | 240               | 280                         | 760               | --             | --           | NM            | NM            | --            |
|                    | 04/01/96       | <b>5,200</b>               | <b>960</b>               | <750                  | <b>630</b>        | 33                | 130                         | 270               | --             | --           | 11.00         | 0.00          | 9.75          |
|                    | 06/25/96       | <b>2,700</b>               | <b>1,030</b>             | <750                  | <b>230</b>        | 24.6              | 46.5                        | 61.1              | --             | --           | 11.05         | 0.00          | 9.70          |
|                    | 09/27/96       | <b>5,150</b>               | <b>1,190</b>             | <750                  | <b>1,190</b>      | 237               | 86.3                        | 272               | --             | --           | 11.13         | 0.00          | 9.62          |
|                    | 03/28/97       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.19         | 0.00          | 9.56          |
|                    | 06/30/97       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.66         | 0.00          | 10.09         |
|                    | 09/08/97       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.48         | 0.00          | 10.27         |
|                    | 12/19/97       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/16/98       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/26/98       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.18         | 0.00          | 9.57          |
|                    | 09/23/98       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.90         | 0.00          | 8.85          |
|                    | 12/17/98       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.03         | 0.00          | 9.72          |
|                    | 03/31/99       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.38         | 0.00          | 10.37         |
|                    | 06/30/99       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.52          | 0.00          | 11.23         |
|                    | 12/08/99       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.97         | 0.00          | 9.78          |
|                    | 06/20/00       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.33         | 0.00          | 9.42          |
|                    | 12/19/00       | Inaccessible               |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 06/15/01       | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 12.72         | 2.50          | 10.03         |
|                    | 06/26/01       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/01       | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | NM            | 0.30          | --            |
|                    | 10/10/01       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01       | <b>141,000</b>             | <b>25,200</b>            | <b>2,680</b>          | <b>5,360</b>      | <b>32,500</b>     | <b>3,410</b>                | <b>22,700</b>     | --             | --           | 11.21         | 0.00          | 9.54          |
|                    | 03/08/02       | <b>126,000</b>             | <b>31,400</b>            | <b>3,420</b>          | <b>2,660</b>      | <b>21,600</b>     | <b>3,420</b>                | <b>24,800</b>     | --             | --           | 11.37         | 0.00          | 9.38          |
|                    | 06/24/02       | <b>205,000</b>             | <b>51,700</b>            | <b>14,000</b>         | <b>1,510</b>      | <b>14,200</b>     | <b>3,770</b>                | <b>28,900</b>     | --             | --           | 11.36         | 0.00          | 9.39          |
|                    | 09/26/02       | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 12.45         | 0.10          | 8.38          |
|                    | 12/12/02       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 12.34         | 0.00          | 8.41          |
|                    | 03/13/03       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.59         | 0.00          | 10.16         |
|                    | 06/12/03       | <b>30,900</b>              | <b>4,170</b>             | <562                  | <b>396</b>        | 526               | 474                         | <b>3,890</b>      | --             | --           | 11.65         | Sheen         | 9.10          |
|                    | 09/19/03       | 125                        | <291                     | <581                  | 0.704             | <0.500            | <0.500                      | 4.30              | --             | --           | 6.70          | 0.00          | 14.05         |
|                    | 01/14/04       | 524                        | <135                     | <271                  | <b>17</b>         | 3.7               | 7.65                        | 31                | --             | 0.6          | 12.03         | 0.00          | 8.72          |
|                    | 03/30/04       | <b>2,680</b>               | <b>725</b>               | <256                  | <b>218</b>        | 14.7              | 53.2                        | 150.4             | --             | 1.72         | 12.49         | 0.00          | 8.26          |
|                    | 06/22/04       | <b>3,500</b>               | <b>1,330</b>             | 443                   | <b>197</b>        | 12.1              | 99.2                        | 217.3             | --             | 1.2          | 12.66         | 0.00          | 8.09          |
|                    | 09/29/04       | 290                        | 290                      | <511                  | <b>12</b>         | 1.9               | 5.6                         | 22                | --             | 7.2          | 9.60          | 0.00          | 11.15         |
|                    | 12/29/04       | <b>2,860</b>               | <b>795</b>               | <491                  | <b>91</b>         | 30.9              | 49.4                        | 169.3             | --             | 0.1          | 12.14         | 0.00          | 8.61          |
|                    | 03/17/05       | 106                        | <239                     | <478                  | 8.23              | 1.23              | 4.6                         | 9.55              | --             | 4.6          | 12.07         | 0.00          | 8.68          |
|                    | 06/01/05       | <100                       | <262                     | <524                  | 2.03              | <1                | <1                          | <2                | <1             | 9.3          | 11.21         | 0.00          | 9.54          |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-34</b>       | 11/04/91              | <b>40,000</b>              | <1,000                   | --                    | <b>23,000</b>     | <b>18,000</b>     | <b>2600</b>                 | <b>14000</b>      | --             | --           | --            | --            | --            |
| 21.42              | 10/07/93              | <b>4,200</b>               | <b>1,600</b>             | <b>970</b>            | <b>1,400</b>      | 480               | 120                         | 440               | --             | --           | --            | --            | --            |
|                    | 12/29/93              | <b>52,000</b>              | <b>2,200</b>             | <750                  | <b>15,000</b>     | <b>11,000</b>     | <b>1,500</b>                | <b>7,000</b>      | --             | --           | 11.01         | 0.00          | 10.41         |
|                    | 04/07/94              | <b>9,800</b>               | <b>1,400</b>             | <750                  | <b>4,500</b>      | 930               | 260                         | 840               | --             | --           | 10.88         | 0.00          | 10.54         |
|                    | 07/14/94              | <b>5,700</b>               | <b>1,200</b>             | <750                  | <b>980</b>        | 420               | 210                         | 820               | --             | --           | 10.78         | 0.00          | 10.64         |
|                    | 10/25/94              | <b>13,000</b>              | <b>4,100</b>             | <b>1,900</b>          | <b>6,500</b>      | 170               | 680                         | 1,000             | --             | --           | 11.78         | 0.00          | 9.64          |
|                    | 03/08/95              | <b>8,200</b>               | <b>1,100</b>             | 480                   | <b>2,400</b>      | <b>1,500</b>      | 250                         | <b>1,300</b>      | --             | --           | 11.62         | 0.00          | 9.80          |
|                    | 06/06/95              | <b>9,100</b>               | <b>2,300</b>             | <750                  | <b>4,200</b>      | 1,000             | 330                         | <b>1,200</b>      | --             | --           | 11.73         | 0.00          | 9.69          |
|                    | 09/07/95              | <b>18,000</b>              | <b>1,800</b>             | <b>930</b>            | <b>4,800</b>      | <b>2,300</b>      | 560                         | <b>2,000</b>      | --             | --           | 11.57         | 0.00          | 9.85          |
|                    | 12/08/95              | <b>68,000</b>              | <b>2,900</b>             | <b>1,600</b>          | <b>12,000</b>     | <b>9,200</b>      | <b>1,200</b>                | <b>5,500</b>      | --             | --           | 10.92         | 0.00          | 10.50         |
|                    | 04/01/96              | <b>10,000</b>              | <b>1,900</b>             | <750                  | <b>5,500</b>      | 580               | 520                         | <b>1,200</b>      | --             | --           | 11.21         | 0.00          | 10.21         |
|                    | 06/25/96              | <b>13,700</b>              | <b>1,160</b>             | <750                  | <b>4,190</b>      | <b>1,110</b>      | 393                         | <b>1,740</b>      | --             | --           | 11.19         | 0.00          | 10.23         |
|                    | 09/27/96              | <b>16,300</b>              | <b>1,030</b>             | <750                  | <b>5,010</b>      | <b>2,520</b>      | 541.0                       | <b>1,310</b>      | --             | --           | 11.58         | 0.00          | 9.84          |
|                    | 03/28/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.47         | 0.00          | 9.95          |
|                    | 06/30/97 <sup>2</sup> | <b>2,970</b>               | 311                      | <750                  | <b>1,930</b>      | 15.7              | 271                         | 531               | --             | --           | 11.19         | 0.00          | 10.23         |
|                    | 09/08/97 <sup>2</sup> | <b>8,390</b>               | 455                      | <750                  | <b>3,920</b>      | 645               | 567                         | 1,270             | --             | --           | 11.74         | 0.00          | 9.68          |
|                    | 12/19/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/16/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/26/98 <sup>2</sup> | <b>76,900</b>              | <b>3,090</b>             | <750                  | <b>13,400</b>     | <b>11,100</b>     | <b>2,310</b>                | <b>9,080</b>      | --             | --           | 11.42         | 0.00          | 10.00         |
|                    | 09/23/98 <sup>2</sup> | <b>9,040</b>               | <b>3,000</b>             | 799                   | <b>3,540</b>      | 243               | 636                         | <b>1,650</b>      | --             | --           | 12.23         | 0.00          | 9.19          |
|                    | 12/17/98 <sup>2</sup> | <b>80,900</b>              | <b>5,470</b>             | <b>1,380</b>          | <b>14,200</b>     | <b>10,800</b>     | <b>3,110</b>                | <b>11,800</b>     | --             | --           | 11.35         | 0.00          | 10.07         |
|                    | 03/31/99 <sup>2</sup> | <b>33,400</b>              | <b>1,910</b>             | <750                  | <b>5,970</b>      | <b>1,740</b>      | <b>1,400</b>                | <b>3,820</b>      | --             | --           | 10.85         | 0.00          | 10.57         |
|                    | 06/30/99 <sup>2</sup> | <b>28,500</b>              | <b>4,840</b>             | <b>984</b>            | <b>4,340</b>      | <b>1,320</b>      | <b>1,490</b>                | <b>3,610</b>      | --             | --           | 10.18         | 0.00          | 11.24         |
|                    | 12/08/99 <sup>2</sup> | <b>62,400</b>              | <b>2,500</b>             | <1,360                | <b>12,900</b>     | <b>7,440</b>      | <b>3,240</b>                | <b>9,210</b>      | --             | --           | 11.33         | 0.00          | 10.09         |
|                    | 06/20/00 <sup>b</sup> | <b>25,000</b>              | <250                     | <750                  | <b>6,360</b>      | 480               | <b>2,190</b>                | <b>3,930</b>      | --             | --           | 11.68         | 0.00          | 9.74          |
|                    | 12/19/00              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/15/01 <sup>b</sup> | <b>25,800</b>              | <b>4,780</b>             | <883                  | <b>5,300</b>      | 90                | <b>1,930</b>                | <b>2,190</b>      | --             | --           | 11.85         | 0.00          | 9.57          |
|                    | 06/26/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/01 <sup>b</sup> | <b>17,800</b>              | <b>4,510</b>             | <b>722</b>            | <b>3,540</b>      | 44.9              | <b>1,510</b>                | <b>2,180</b>      | --             | --           | 11.86         | 0.00          | 9.56          |
|                    | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01              | <b>19,000</b>              | <b>8,400</b>             | <b>752</b>            | <b>5,320</b>      | <b>1,200</b>      | 406                         | <b>1,010</b>      | --             | --           | 11.46         | 0.00          | 9.96          |
|                    | 03/08/02              | <b>59,200</b>              | <b>8,550</b>             | <b>661</b>            | <b>7,200</b>      | <b>8,610</b>      | <b>2,190</b>                | <b>8,200</b>      | --             | --           | 11.70         | 0.00          | 9.72          |
|                    | 06/24/02              | <b>12,500</b>              | <b>4,200</b>             | <b>614</b>            | <b>2,140</b>      | 651               | 659                         | 1,160             | --             | --           | 11.91         | 0.00          | 9.51          |
|                    | 09/26/02 <sup>c</sup> | <b>13,800</b>              | <b>6,270</b>             | <1,160                | <b>5,840</b>      | 21.8              | 280                         | 87                | --             | --           | 12.80         | 0.00          | 8.62          |
|                    | 12/12/02              | <b>14,500</b>              | <b>11,000</b>            | <b>681</b>            | <b>5,130</b>      | 44.7              | 333                         | 224               | --             | --           | 12.98         | 0.00          | 8.44          |
|                    | 03/13/03              | <b>25,600</b>              | <b>6,480</b>             | <500                  | <b>6,030</b>      | 668               | <b>775</b>                  | <b>1,130</b>      | --             | --           | 11.67         | 0.00          | 9.75          |
|                    | 06/12/03              | <b>13,000</b>              | <b>2,880</b>             | <500                  | <b>1,590</b>      | 735               | 450                         | <b>1,360</b>      | --             | --           | 12.04         | 0.00          | 9.38          |
|                    | 09/19/03              | 351                        | <301                     | <602                  | <b>9.91</b>       | 11.7              | 6.48                        | 34.6              | --             | --           | 12.83         | 0.00          | 8.59          |
|                    | 01/14/04              | 160                        | <122                     | <245                  | <b>23.7</b>       | <0.5              | 2.11                        | <1                | --             | 0.2          | 12.00         | 0.00          | 9.42          |
|                    | 03/30/04              | <b>15,100</b>              | <b>1,120</b>             | <300                  | <b>3,060</b>      | 238               | 564                         | 846.6             | --             | 1.68         | 12.62         | 0.00          | 8.80          |
|                    | 06/22/04              | <b>6,760</b>               | <b>1,900</b>             | <238                  | <b>2,320</b>      | 14.3              | 395                         | 279.8             | --             | 0.5          | 12.88         | 0.00          | 8.54          |
|                    | 09/29/04              | 310                        | 306                      | <505                  | <b>10</b>         | <0.50             | 3.5                         | 8.2               | --             | 0.4          | 11.38         | 0.00          | 10.04         |
|                    | 12/29/04              | <b>2,590</b>               | 481                      | <504                  | <b>320</b>        | <10               | 83.8                        | 101.4             | --             | 2.0          | 12.67         | 0.00          | 8.75          |
|                    | 03/17/05              | <100                       | <239                     | <478                  | <1                | <1                | <1                          | <2                | --             | 0.4          | 12.66         | 0.00          | 8.76          |
|                    | 06/01/05              | 143                        | <237                     | <474                  | <1                | <1                | 5.34                        | 4.87              | <1             | 2.9          | 11.81         | 0.00          | 9.61          |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-35</b>       | 11/04/91              | <b>24,000</b>              | <1,000                   | --                    | <b>440</b>        | <b>2,600</b>      | 610                         | <b>4,300</b>      | --             | --           | --            | --            | --            |
| 20.10              | 12/29/93              | <b>4,200</b>               | <b>1,000</b>             | <750                  | <b>580</b>        | 40                | 200                         | 720               | --             | --           | 10.23         | 0.00          | 9.87          |
|                    | 04/07/94              | <b>5,300</b>               | <b>870</b>               | <750                  | <b>480</b>        | 51                | 140                         | 550               | --             | --           | 9.91          | 0.00          | 10.19         |
|                    | 07/14/94              | <b>8,100</b>               | <b>890</b>               | <750                  | <b>980</b>        | 79                | 150                         | 600               | --             | --           | 10.13         | 0.00          | 9.97          |
|                    | 10/25/94              | <b>2,800</b>               | <b>1,300</b>             | <b>1,200</b>          | <b>360</b>        | 3.6               | 100                         | 82                | --             | --           | 10.87         | 0.00          | 9.23          |
|                    | 03/08/95              | <b>2,600</b>               | <b>1,200</b>             | <b>1,300</b>          | <b>400</b>        | <25               | 120                         | 83                | --             | --           | 10.67         | 0.00          | 9.43          |
|                    | 06/06/95              | <b>810</b>                 | <b>1,000</b>             | <b>930</b>            | <b>62</b>         | 1.4               | 27                          | 36                | --             | --           | 10.67         | 0.00          | 9.43          |
|                    | 09/07/95              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.87         | 0.00          | 9.23          |
|                    | 12/08/95              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 04/01/96              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/25/96              | <b>1,620</b>               | <b>850</b>               | <750                  | <b>68.2</b>       | 1.11              | 26.7                        | 17.6              | --             | --           | 11.11         | 0.00          | 8.99          |
|                    | 09/27/96              | <b>959</b>                 | <b>524</b>               | <750                  | <b>38.8</b>       | 0.990             | 10.4                        | 6.18              | --             | --           | 10.64         | 0.00          | 9.46          |
|                    | 03/28/97 <sup>2</sup> | <b>1,370</b>               | 333                      | <750                  | <b>161</b>        | 2.36              | 31.9                        | 10.7              | --             | --           | 11.28         | 0.00          | 8.82          |
|                    | 03/28/97              | <b>1,800</b>               | <250                     | <750                  | <b>250</b>        | 2.62              | 49.1                        | 8.04              | --             | --           | 11.28         | 0.00          | 8.82          |
|                    | 06/30/97 <sup>2</sup> | <b>1,900</b>               | <250                     | <750                  | <b>348</b>        | <2.50             | 85                          | 7.31              | --             | --           | 10.19         | 0.00          | 9.91          |
|                    | 09/08/97 <sup>2</sup> | <b>4,200</b>               | <250                     | <750                  | <b>1,460</b>      | 16.2              | 231                         | 68.2              | --             | --           | 10.86         | 0.00          | 9.24          |
|                    | 12/19/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/16/98 <sup>2</sup> | <b>905</b>                 | 361                      | <750                  | <b>410</b>        | 4.24              | <2.50                       | <5.00             | --             | --           | 10.64         | 0.00          | 9.46          |
|                    | 06/26/98 <sup>2</sup> | <b>1,300</b>               | <b>682</b>               | <750                  | <b>600</b>        | <10.0             | 45.1                        | <20.0             | --             | --           | 10.65         | 0.00          | 9.45          |
|                    | 09/23/98 <sup>2</sup> | 665                        | <b>659</b>               | <750                  | <b>243</b>        | <2.50             | <2.50                       | <5.00             | --             | --           | 11.38         | 0.00          | 8.72          |
|                    | 12/17/98 <sup>2</sup> | 699                        | <b>572</b>               | <750                  | <b>402</b>        | <2.50             | 10.8                        | 9.99              | --             | --           | 10.49         | 0.00          | 9.61          |
|                    | 03/31/99              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 06/30/99              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 12/08/99              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 06/20/00              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 12/19/00              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 06/15/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/26/01 <sup>b</sup> | 504                        | 464                      | <750                  | <b>11.3</b>       | 27.5              | 5.52                        | 28.4              | --             | --           | 10.60         | 0.00          | 9.50          |
|                    | 09/04/01 <sup>b</sup> | 263                        | <b>903</b>               | <564                  | 2.36              | <0.500            | <0.500                      | <1.00             | --             | --           | 10.54         | 0.00          | 9.56          |
|                    | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01              | 691                        | <b>1,160</b>             | <500                  | <b>28.7</b>       | 0.898             | 14.1                        | 13.2              | --             | --           | 10.54         | 0.00          | 9.56          |
|                    | 03/08/02              | 638                        | <b>1,100</b>             | <500                  | <b>16.2</b>       | 0.939             | 7.05                        | 6.91              | --             | --           | 10.72         | 0.00          | 9.38          |
|                    | 06/24/02              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 09/26/02 <sup>b</sup> | 555                        | <b>1,420</b>             | <500                  | <b>9.49</b>       | <2.00             | 1.78                        | <1.50             | --             | --           | 11.90         | 0.00          | 8.20          |
|                    | 12/12/02              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 03/13/03              | <b>13,500</b>              | <b>1,430</b>             | <500                  | <b>749</b>        | 153               | 791                         | 2,160             | --             | --           | 9.87          | 0.00          | 10.23         |
|                    | 06/12/03              | <b>3,930</b>               | <b>973</b>               | <562                  | <b>338</b>        | 21.2              | 49.9                        | 222               | --             | --           | 11.91         | 0.00          | 8.19          |
|                    | 09/19/03              | 517                        | <373                     | <746                  | <b>7.29</b>       | 4.32              | 1.86                        | 14.6              | --             | --           | 12.18         | 0.00          | 7.92          |
|                    | 01/14/04              | 614                        | 142                      | <256                  | 1.45              | <0.5              | 0.657                       | 0.568             | --             | 0.3          | 11.33         | 0.00          | 8.77          |
|                    | 03/30/04              | 541                        | 196                      | <257                  | <1                | <1                | <1                          | <2                | --             | 1.46         | 11.69         | 0.00          | 8.41          |
|                    | 06/22/04              | 526                        | 210                      | <238                  | 1.27              | <1                | <1                          | <2                | --             | 1.5          | 11.91         | 0.00          | 8.19          |
|                    | 09/29/04              | 250                        | 248                      | <487                  | 0.50              | <0.50             | 1.1                         | 2.1               | --             | 0.1          | 11.77         | 0.00          | 8.33          |
| 19.45 <sup>d</sup> | 12/29/04              | 280                        | <255                     | <510                  | <1                | <1                | <1                          | <2                | --             | 0.1          | 10.64         | 0.00          | 8.81          |
|                    | 03/17/05              | 168                        | <239                     | <478                  | <1                | <1                | <1                          | <2                | --             | 0.7          | 10.88         | 0.00          | 8.57          |
|                    | 06/01/05              | 334                        | <238 <sup>f</sup>        | <475 <sup>f</sup>     | 7.06              | <1                | 2.11                        | <2                | 1.21           | 1.6          | 10.11         | 0.00          | 9.34          |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-36</b>       | 11/05/91              | <b>1,000</b>               | <1,000                   | --                    | <b>24</b>         | 0.9               | <0.5                        | 1.0               | --             | --           | --            | --            | --            |
| 17.80              | 12/30/93              | <100                       | 370                      | <b>940</b>            | 0.7               | <0.5              | <0.5                        | <0.5              | --             | --           | 9.42          | 0.00          | 8.38          |
|                    | 07/15/94              | <100                       | 410                      | <b>960</b>            | 0.7               | <0.5              | <0.5                        | <0.5              | --             | --           | 7.98          | 0.00          | 9.82          |
|                    | 10/25/94              | <50                        | <b>670</b>               | <b>1,300</b>          | 1.2               | <0.5              | <0.5                        | <1.0              | --             | --           | 9.32          | 0.00          | 8.48          |
|                    | 03/08/95              | <50                        | <b>560</b>               | <b>1,200</b>          | 2.6               | <0.5              | <0.5                        | <1.0              | --             | --           | 9.07          | 0.00          | 8.73          |
|                    | 06/06/95              | <50                        | <250                     | <750                  | 1                 | <0.5              | <0.5                        | <1.0              | --             | --           | 7.92          | 0.00          | 9.88          |
|                    | 09/07/95              | <50                        | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 8.11          | 0.00          | 9.69          |
|                    | 12/08/95              | <50                        | <b>510</b>               | <b>1,200</b>          | 1.1               | <0.5              | <0.5                        | <1.0              | --             | --           | 9.00          | 0.00          | 8.80          |
|                    | 04/01/96              | <50                        | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 9.00          | 0.00          | 8.80          |
|                    | 06/25/96              | <50.0                      | <250                     | <750                  | 0.58              | 0.500             | <0.500                      | <1.00             | --             | --           | 8.97          | 0.00          | 8.83          |
|                    | 09/27/96              | <50.0                      | <250                     | <750                  | 1.18              | <0.500            | <0.500                      | <1.00             | --             | --           | 7.53          | 0.00          | 10.27         |
|                    | 03/28/97              | <50.0                      | <250                     | <750                  | 0.810             | <0.500            | <0.500                      | <1.00             | --             | --           | 9.21          | 0.00          | 8.59          |
|                    | 06/30/97 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 6.88          | 0.00          | 10.92         |
|                    | 09/08/97 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.21          | 0.00          | 8.59          |
|                    | 12/19/97 <sup>2</sup> | <50.0                      | <250                     | <750                  | 0.606             | <0.500            | <0.500                      | <1.00             | --             | --           | 10.09         | 0.00          | 7.71          |
|                    | 03/16/98 <sup>2</sup> | 56.6                       | 287                      | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.29          | 0.00          | 8.51          |
|                    | 06/26/98 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.47          | 0.00          | 9.33          |
|                    | 09/23/98 <sup>2</sup> | <50.0                      | <250                     | <750                  | 0.737             | <0.500            | <0.500                      | 1.13              | --             | --           | 9.89          | 0.00          | 7.91          |
|                    | 12/17/98 <sup>2</sup> | <50.0                      | 288                      | <750                  | 0.533             | <0.500            | <0.500                      | <1.00             | --             | --           | 10.00         | 0.00          | 7.80          |
|                    | 03/31/99 <sup>2</sup> | <50.0                      | 321                      | <750                  | 0.759             | <0.500            | <0.500                      | <1.00             | --             | --           | 8.96          | 0.00          | 8.84          |
|                    | 06/30/99 <sup>2</sup> | <50.0                      | <250                     | <750                  | 1.29              | <0.500            | <0.500                      | <1.00             | --             | --           | 8.44          | 0.00          | 9.36          |
|                    | 12/08/99 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 10.05         | 0.00          | 7.75          |
|                    | 06/20/00 <sup>b</sup> | 172                        | <250                     | <750                  | <0.500            | 0.583             | 1.78                        | 11.1              | --             | --           | 8.47          | 0.00          | 9.33          |
|                    | 12/19/00 <sup>b</sup> | 106                        | <250                     | <750                  | 0.529             | 1.51              | 1.08                        | 7.14              | --             | --           | 9.50          | 0.00          | 8.30          |
|                    | 06/15/01 <sup>b</sup> | <50.0                      | 298                      | <750                  | 0.691             | 0.648             | 0.530                       | 1.53              | --             | --           | 8.00          | 0.00          | 9.80          |
|                    | 06/26/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/01 <sup>b</sup> | <50.0                      | <250                     | <500                  | 0.897             | <0.500            | <0.500                      | <1.00             | --             | --           | 8.70          | 0.00          | 9.10          |
|                    | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01              | <50.0                      | 387                      | <500                  | 0.773             | 0.748             | <0.500                      | 1.78              | --             | --           | 9.57          | 0.00          | 8.23          |
|                    | 03/08/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/24/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/26/02              | <100                       | <250                     | <500                  | 0.735             | <2.00             | <1.00                       | <1.50             | --             | --           | 10.16         | 0.00          | 7.64          |
|                    | 12/12/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/13/03              | <50.0                      | <250                     | <500                  | 0.830             | <0.500            | <0.500                      | <1.00             | --             | --           | 9.34          | 0.00          | 8.46          |
|                    | 06/12/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/19/03              | <50.0                      | <287                     | <575                  | 1.44              | 0.561             | <0.500                      | <1.00             | --             | --           | 10.23         | 0.00          | 7.57          |
|                    | 01/14/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/30/04              | <100                       | <133                     | <267                  | <1                | <1                | <1                          | <2                | --             | 1.10         | 9.46          | 0.00          | 8.34          |
|                    | 06/22/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/29/04              | <50                        | <250                     | <500                  | 0.90              | <0.50             | <0.50                       | <1.0              | --             | 0.8          | 9.78          | 0.00          | 8.02          |
|                    | 12/29/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/17/05              | <100                       | <246                     | <492                  | <1                | <1                | <1                          | <2                | --             | 0.1          | 8.66          | 0.00          | 9.14          |
|                    | 06/02/05              | <100                       | -- <sup>e</sup>          | -- <sup>e</sup>       | <1                | <1                | <1                          | <2                | <1             | 0.9          | 7.70          | 0.00          | 10.10         |
|                    | 06/16/05              | --                         | 82 <sup>f</sup>          | <250                  | --                | --                | --                          | --                | --             | 0.8          | 7.71          | 0.00          | 10.09         |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-37</b>       | 11/05/91              | <b>21,000</b>              | <1,000                   | --                    | <b>810</b>        | <b>2,400</b>      | 470                         | <b>3,300</b>      | --             | --           | --            | --            | --            |
| 21.01              | 12/30/93              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 10.59         | 0.40          | -10.27        |
|                    | 04/07/94              | <b>92,000</b>              | <b>18,000</b>            | <750                  | <b>660</b>        | <b>3,600</b>      | <b>1,500</b>                | <b>9,500</b>      | --             | --           | 10.49         | 0.08          | 10.58         |
|                    | 07/15/94              | <b>330,000</b>             | <b>1,700,000</b>         | <b>260,000</b>        | <b>18,000</b>     | <b>44,000</b>     | <b>7,700</b>                | <b>44,000</b>     | --             | --           | --            | 0.25          | --            |
|                    | 10/26/94              | <b>170,000</b>             | <b>35,000</b>            | <b>7,500</b>          | <b>14,000</b>     | <b>30,000</b>     | <b>4,400</b>                | <b>26,000</b>     | --             | --           | --            | 0.17          | --            |
|                    | 03/08/95              | <b>34,000</b>              | <b>3,200</b>             | <b>1,400</b>          | <b>3,100</b>      | <b>2,400</b>      | <b>1,200</b>                | <b>6,700</b>      | --             | --           | 11.94         | 0.00          | 9.07          |
|                    | 06/06/95              | <b>45,000</b>              | <b>4,600</b>             | <b>2,500</b>          | <b>3,700</b>      | <b>2,400</b>      | <b>1,300</b>                | <b>7,900</b>      | --             | --           | 11.76         | 0.01          | 9.25          |
|                    | 06/06/95              | <b>90,000</b>              | --                       | --                    | <b>5,100</b>      | <b>6,000</b>      | <b>2,400</b>                | <b>14,000</b>     | --             | --           | 11.76         | 0.01          | 9.25          |
|                    | 09/07/95              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.17         | 0.00          | 9.84          |
|                    | 12/08/95              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.22         | 0.00          | 10.79         |
|                    | 04/01/96              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 10.79         | 0.02          | 10.22         |
|                    | 06/25/96              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 10.82         | 0.20          | 10.19         |
|                    | 09/27/96              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 11.47         | 0.05          | 9.54          |
|                    | 03/28/97 <sup>2</sup> | <b>60,100</b>              | <b>7,570</b>             | <b>789</b>            | <b>1,530</b>      | <b>2,180</b>      | <b>1,650</b>                | <b>7,440</b>      | --             | --           | 11.14         | 0.25          | 9.87          |
|                    | 03/28/97              | <b>297,000</b>             | <b>45,100</b>            | <8,250                | <b>6,570</b>      | <b>13,200</b>     | <b>4,930</b>                | <b>22,900</b>     | --             | --           | 11.14         | 0.25          | 9.87          |
|                    | 06/30/97              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 10.80         | 0.02          | 10.21         |
|                    | 09/08/97              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 11.41         | 0.23          | 9.60          |
|                    | 12/19/97              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 11.28         | 0.02          | 9.75          |
|                    | 03/16/98              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 11.11         | 0.01          | 9.91          |
|                    | 06/26/98              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 11.32         | 0.01          | 9.70          |
|                    | 09/23/98              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 12.01         | 0.03          | 9.02          |
|                    | 12/17/98              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 11.00         | Trace         | 10.01         |
|                    | 03/31/99              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | NM            | Trace         | --            |
|                    | 06/30/99              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | DRY           | 0.30          | --            |
|                    | 12/08/99              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.11         | --            | 9.90          |
|                    | 06/20/00              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.50         | --            | 9.51          |
|                    | 12/19/00              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 11.50         | 0.50          | 9.91          |
|                    | 06/15/01 <sup>b</sup> | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 11.35         | 0.03          | 9.68          |
|                    | 06/26/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/01 <sup>b</sup> | <b>159,000</b>             | <b>22,100</b>            | <b>14,600</b>         | <b>3,420</b>      | <b>12,600</b>     | <b>4,440</b>                | <b>27,000</b>     | --             | --           | 11.43         | 0.00          | 9.58          |
|                    | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01 <sup>b</sup> | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 11.00         | 0.20          | 10.17         |
|                    | 03/08/02              | LPH Present                |                          |                       |                   |                   |                             |                   |                | --           | 11.61         | 0.40          | 9.72          |
|                    | 06/24/02              | Inaccessible               |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 09/26/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 12.38         | 0.00          | 8.63          |
|                    | 12/12/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 12.35         | 0.00          | 8.66          |
|                    | 03/13/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 11.10         | 0.00          | 9.91          |
|                    | 06/12/03              | <b>1,450</b>               | 474                      | <568                  | <b>22.9</b>       | 43.2              | 15.8                        | 85.5              | --             | --           | 11.61         | 0.00          | 9.40          |
|                    | 09/19/03              | 141                        | <298                     | <595                  | <0.500            | <0.500            | <0.500                      | 1.01              | --             | --           | 11.95         | 0.00          | 9.06          |
|                    | 01/14/04              | 471                        | <127                     | <255                  | 4.56              | <0.5              | 9.01                        | 27.75             | --             | 0.5          | 12.12         | 0.00          | 8.89          |
|                    | 03/30/04              | 572                        | 180                      | <281                  | <b>5.77</b>       | <1                | <1                          | 1.53              | --             | 1.50         | 12.73         | 0.00          | 8.28          |
|                    | 06/22/04              | 737                        | 487                      | 294                   | 3.26              | 3.66              | 1.46                        | 14.25             | --             | 1.0          | 12.29         | 0.00          | 8.72          |
|                    | 09/29/04              | 190                        | 419                      | <496                  | <0.50             | <0.50             | 0.67                        | 1.3               | --             | 2.0          | 10.89         | 0.00          | 10.12         |
|                    | 12/29/04              | 430                        | <262                     | <524                  | <b>18.2</b>       | 2.27              | 1.08                        | 11.22             | --             | 1.5          | 11.90         | 0.00          | 9.11          |
|                    | 03/17/05              | 250                        | 259                      | <476                  | <1                | 1.27              | <1                          | 4.22              | --             | 2.5          | 12.18         | 0.00          | 8.83          |
|                    | 06/02/05              | 137                        | <238                     | <b>604</b>            | <1                | <1                | <1                          | <2                | <1             | 1.5          | 10.87         | 0.00          | 10.14         |



**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l)                           | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |    |
|--------------------|-----------------------|--|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|----|
| <b>MW-38</b>       | 11/05/91              | <1,000   | <1,000                   | --                    | <0.5              | 0.6               | <0.5                        | 0.5               | --             | --           | --            | --            | --            |    |
| 16.52              | 03/08/95              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 06/06/95              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 09/07/95              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 12/08/95              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 04/01/96              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 06/25/96              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 09/27/96              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 03/28/97              | <50  | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.23          | 0.00          | 7.29          |    |
|                    | 06/30/97              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 09/08/97              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 12/19/97              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 03/16/98              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 06/26/98              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 09/23/98              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 12/17/98              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 03/31/99              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 06/30/99              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 12/08/99              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 06/20/00              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 12/19/00              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 06/15/01              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 06/26/01              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 09/07/01              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 10/10/01              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 12/28/01              | <50.0  | 403                      | <500                  | 0.636             | 1.33              | 0.554                       | 2.59              | --             | --           | 8.96          | 0.00          | 7.56          |    |
|                    | 03/08/02              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 06/24/02              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 09/26/02 <sup>c</sup> | <100   | 282                      | <500                  | 0.743             | <2.00             | <1.00                       | <1.50             | --             | --           | 8.87          | 0.00          | 7.65          |    |
|                    | 12/12/02              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 03/13/03              | <50.0  | <250                     | <500                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 7.84          | 0.00          | 8.68          |    |
|                    | 06/12/03              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 09/19/03              | <50.0  | <250                     | <500                  | 0.704             | 1.42              | 0.722                       | 3.72              | --             | --           | 8.90          | 0.00          | 7.62          |    |
|                    | 01/14/04              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 03/30/04              | <100   | <133                     | <266                  | <1                | <1                | <1                          | <2                | --             | 0.90         | 8.09          | 0.00          | 8.43          |    |
|                    | 06/22/04              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 09/29/04              | Unable to locate due to road construction activities |                          |                       |                   |                   |                             |                   |                |              | --            | NM            | NM            | -- |
|                    | 12/29/04              | --   | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |    |
|                    | 03/17/05              | <100   | <250                     | <499                  | <1                | <1                | <1                          | <2                | --             | 0.4          | 8.32          | 0.00          | 8.20          |    |
|                    | 06/02/05              | Obstructed by vehicle                                |                          |                       |                   |                   |                             |                   |                |              | --            | --            | --            | -- |
|                    | 06/16/05              | Obstructed by vehicle                                |                          |                       |                   |                   |                             |                   |                |              | --            | --            | --            | -- |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-40</b>       | 11/05/91              | <1,000                     | <1,000                   | --                    | <b>5.8</b>        | 0.7               | 0.5                         | 0.8               | --             | --           | --            | --            | --            |
| 20.89              | 10/07/93              | <b>930</b>                 | <b>1,800</b>             | <b>1,900</b>          | <b>36</b>         | 1.8               | 2.1                         | 5.3               | --             | --           | --            | --            | --            |
|                    | 12/30/93              | <b>1,500</b>               | <b>5,400</b>             | <b>4,200</b>          | <b>34</b>         | 1.1               | 11                          | 7.4               | --             | --           | 10.68         | 0.00          | 10.21         |
|                    | 04/07/94              | <b>1,200</b>               | <b>2,200</b>             | <b>2,000</b>          | <b>29</b>         | 1.1               | 6.9                         | 2.6               | --             | --           | 9.35          | 0.00          | 11.54         |
|                    | 07/15/94              | <b>1,000</b>               | <b>2,100</b>             | <b>2,500</b>          | <b>27</b>         | 0.8               | 1.2                         | 1.7               | --             | --           | 10.68         | 0.00          | 10.21         |
|                    | 10/26/94              | <b>1,200</b>               | <b>2,900</b>             | <b>2,600</b>          | <b>20</b>         | 0.53              | 0.77                        | 2.0               | --             | --           | 11.22         | 0.00          | 9.67          |
|                    | 03/08/95              | <b>960</b>                 | <b>2,600</b>             | <b>2,600</b>          | <b>11</b>         | <0.5              | 11                          | <1.0              | --             | --           | 10.98         | 0.00          | 9.91          |
|                    | 06/06/95              | <b>1,500</b>               | <b>2,300</b>             | <b>1,600</b>          | <b>6.8</b>        | 4.3               | 4.1                         | 21                | --             | --           | 11.18         | 0.00          | 9.71          |
|                    | 09/07/95              | 650                        | <b>13,000</b>            | <b>66,000</b>         | <b>11</b>         | 0.91              | 0.57                        | <1.0              | --             | --           | 11.08         | 0.00          | 9.81          |
|                    | 12/08/95              | 500                        | <b>1,400</b>             | <b>4,800</b>          | 2.7               | 3.00              | <0.5                        | <1.0              | --             | --           | 10.30         | 0.00          | 10.59         |
|                    | 04/01/96              | 520                        | <b>3,200</b>             | <b>13,000</b>         | 1.2               | <0.5              | 0.55                        | <1.0              | --             | --           | 10.56         | 0.00          | 10.33         |
|                    | 06/25/96              | 500                        | <b>2,700</b>             | <b>8,460</b>          | <0.500            | 9.82              | <0.500                      | <1.00             | --             | --           | 10.69         | 0.00          | 10.20         |
|                    | 09/27/96              | 602                        | <b>3,550</b>             | <b>9,860</b>          | 0.604             | 41.1              | 0.525                       | <1.0              | --             | --           | 10.95         | 0.00          | 9.94          |
|                    | 03/28/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.92         | 0.00          | 9.97          |
|                    | 06/30/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/08/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/19/97 <sup>2</sup> | 325                        | <b>3,260</b>             | <b>12,600</b>         | <0.500            | 0.504             | 0.663                       | 2.44              | --             | --           | 11.11         | 0.00          | 9.78          |
|                    | 03/16/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/26/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/23/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/17/98 <sup>2</sup> | 384                        | <b>2,840</b>             | <b>9,620</b>          | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 10.86         | 0.00          | 10.03         |
|                    | 03/31/99              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/30/99              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/08/99              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/20/00              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/09/00              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/19/00              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/15/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/26/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01              | 449                        | <b>4,000</b>             | <b>5,090</b>          | 2.12              | 2.19              | 1.38                        | 3.88              | --             | --           | 10.75         | 0.00          | 10.14         |
|                    | 03/08/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/24/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/26/02              | 331                        | <b>2,810</b>             | <b>3,470</b>          | 1.92              | <2.00             | <1.00                       | <1.50             | --             | --           | 12.69         | 0.00          | 8.20          |
|                    | 12/12/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/13/03              | 509                        | <b>2,010</b>             | <b>2,010</b>          | <0.500            | <0.500            | 0.630                       | 1.77              | --             | --           | 11.30         | 0.00          | 9.59          |
|                    | 06/12/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/19/03              | 259                        | 393                      | <b>1,120</b>          | 2.64              | 3.01              | 1.39                        | 6.77              | --             | --           | 12.46         | 0.00          | 8.43          |
|                    | 01/14/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/30/04              | 627                        | <b>863</b>               | <b>3,360</b>          | 3.69              | <1                | <1                          | <2                | --             | 1.71         | 11.55         | sheen         | 9.34          |
|                    | 06/22/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/29/04              | 390                        | <b>32,800</b>            | <b>219,000</b>        | <0.50             | <0.50             | <0.50                       | <1.0              | --             | 1.4          | 12.03         | sheen         | 8.86          |
|                    | 12/29/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/17/05              | 402                        | <b>758</b>               | <b>4,130</b>          | <1                | <1                | <1                          | <2                | --             | 0.2          | 11.89         | sheen         | 9.00          |
|                    | 06/02/05              | 433                        | <b>692<sup>j</sup></b>   | <b>3,760</b>          | <1                | <1                | <1                          | <2                | <1             | 1.0          | 11.30         | 0.00          | 9.59          |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|----------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-41</b>       | 11/05/91       | <1,000                     | <1,000                   | --                    | <b>67</b>         | <0.5              | <0.5                        | <0.5              | --             | --           | --            | --            | --            |
| 27.00              | 12/29/93       | <100                       | <250                     | <750                  | 4.6               | <0.5              | <0.5                        | <0.5              | --             | --           | 11.24         | 0.00          | 15.76         |
|                    | 07/14/94       | <100                       | <250                     | <750                  | <b>10</b>         | <0.5              | <0.5                        | <0.5              | --             | --           | 10.81         | 0.00          | 16.19         |
|                    | 10/25/94       | <50                        | 500                      | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 13.69         | 0.00          | 13.31         |
|                    | 03/08/95       | <50                        | <250                     | <750                  | 1.6               | <0.5              | <0.5                        | <1.0              | --             | --           | 14.72         | --            | 12.28         |
|                    | 06/06/95       | <50                        | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 15.02         | --            | 11.98         |
|                    | 09/07/95       | <50                        | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 15.00         | --            | 12.00         |
|                    | 12/08/95       | <50                        | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 16.30         | --            | 10.70         |
|                    | 04/01/96       | <50                        | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 15.02         | --            | 11.98         |
|                    | 06/25/96       | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 15.07         | --            | 11.93         |
|                    | 09/27/96       | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 15.42         | 0.00          | 11.58         |
|                    | 03/28/97       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 15.27         | 0.00          | 11.73         |
|                    | 06/30/97       | Monitoring Discontinued    |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 06/02/05       | <100                       | <237                     | <474                  | <1                | <1                | <1                          | <2                | <1             | 1.4          | 15.48         | 0.00          | 11.52         |
| <b>MW-42</b>       | 11/05/91       | <1,000                     | <1,000                   | --                    | <b>180</b>        | 2.9               | 0.8                         | 4.7               | --             | --           | --            | --            | --            |
| 20.34              | 12/30/93       | <100                       | <b>1,300</b>             | <b>2,400</b>          | <b>570</b>        | 0.5               | <0.5                        | 0.7               | --             | --           | 9.62          | 0.00          | 10.72         |
|                    | 04/07/94       | <200                       | <b>840</b>               | <b>1,100</b>          | <b>620</b>        | <1.0              | <1.0                        | <1.0              | --             | --           | 9.36          | 0.00          | 10.98         |
|                    | 07/15/94       | <100                       | <b>540</b>               | <b>850</b>            | <b>490</b>        | 0.6               | <0.5                        | 0.5               | --             | --           | 9.26          | 0.00          | 11.08         |
|                    | 10/26/94       | 92                         | <b>1,300</b>             | <b>2,500</b>          | <b>530</b>        | 0.55              | <0.5                        | <1.0              | --             | --           | 9.92          | 0.00          | 10.42         |
|                    | 03/08/95       | 130                        | <b>670</b>               | <b>1,200</b>          | <b>790</b>        | <25               | <25                         | <50               | --             | --           | 9.45          | 0.00          | 10.89         |
|                    | 06/06/95       | 120                        | <b>920</b>               | <b>1,500</b>          | <b>500</b>        | <0.56             | <0.5                        | <1.0              | --             | --           | 9.37          | 0.00          | 10.97         |
|                    | 09/07/95       | <b>3,000</b>               | <b>780</b>               | <b>1,200</b>          | <b>210</b>        | 4.1               | 42                          | 230               | --             | --           | 9.50          | 0.00          | 10.84         |
|                    | 12/08/95       | 200                        | <b>1,300</b>             | <b>1,900</b>          | <b>380</b>        | <2.0              | <2.0                        | <4.0              | --             | --           | 8.95          | 0.00          | 11.39         |
|                    | 04/01/96       | 180                        | <b>650</b>               | <750                  | <b>280</b>        | 0.52              | <0.5                        | <1.0              | --             | --           | 9.03          | 0.00          | 11.31         |
|                    | 06/25/96       | 150                        | <b>720</b>               | <750                  | <b>150</b>        | <0.500            | <0.500                      | <1.00             | --             | --           | 9.07          | 0.00          | 11.27         |
|                    | 09/27/96       | <250                       | <b>534</b>               | <750                  | <b>228</b>        | <2.50             | <2.50                       | <5.00             | --             | --           | 9.12          | 0.00          | 11.22         |
|                    | 03/28/97       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.09          | 0.00          | 11.25         |
|                    | 06/30/97       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 8.92          | 0.00          | 11.42         |
|                    | 09/08/97       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.57          | 0.00          | 10.77         |
|                    | 12/19/97       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | --            | --            |
|                    | 03/16/98       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.53          | 0.00          | 10.81         |
|                    | 06/26/98       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.51          | 0.00          | 10.83         |
|                    | 09/23/98       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.96          | 0.00          | 10.38         |
|                    | 12/17/98       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.10          | 0.00          | 11.24         |
|                    | 03/31/99       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.00          | 0.00          | 11.34         |
|                    | 06/30/99       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 8.60          | 0.00          | 11.74         |
|                    | 12/08/99       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 8.00          | 0.00          | 12.34         |
|                    | 06/20/00       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/19/00       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/15/01       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.41          | 0.00          | 10.93         |
|                    | 06/26/01       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/01       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.66          | 0.00          | 10.68         |
|                    | 10/10/01       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.28         | 0.00          | 10.06         |
|                    | 03/08/02       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.75          | 0.00          | 10.59         |
|                    | 06/24/02       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/26/02       | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.81         | 0.00          | 9.53          |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-42</b>       | 12/12/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 10.89         | 0.00          | 9.45          |
| <b>(cont'd)</b>    | 03/13/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 9.77          | 0.00          | 10.57         |
|                    | 06/12/03              | Monitoring Discontinued    |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 06/02/05              | 198                        | -- <sup>e</sup>          | -- <sup>e</sup>       | 4.67              | <1                | <1                          | <2                | <1             | 1.5          | 9.52          | 0.00          | 10.82         |
|                    | 06/16/05              | --                         | 97 <sup>f</sup>          | <250                  | --                | --                | --                          | --                | --             | 1.0          | 9.34          | 0.00          | 11.00         |
| <b>MW-43</b>       | 11/05/91              | <1,000                     | <1,000                   | --                    | <b>86</b>         | 3.4               | 0.6                         | 2.7               | --             | --           | --            | --            | --            |
| 21.04              | 12/30/93              | 340                        | 320                      | <750                  | <b>82</b>         | 0.5               | 11                          | 100               | --             | --           | --            | --            | --            |
|                    | 07/14/94              | 360                        | <250                     | <750                  | <b>31</b>         | <0.5              | 4.6                         | 74                | --             | --           | 10.70         | 0.00          | 10.34         |
|                    | 10/26/94              | 160                        | <b>580</b>               | <750                  | <b>9.1</b>        | <0.5              | <0.5                        | <1.0              | --             | --           | 11.34         | 0.00          | 9.70          |
|                    | 03/08/95              | <50                        | <b>650</b>               | <b>2,400</b>          | <b>25</b>         | <0.5              | <0.5                        | <1.0              | --             | --           | 11.35         | 0.00          | 9.69          |
|                    | 06/06/95              | <50                        | <b>690</b>               | <b>1,500</b>          | <b>8.2</b>        | <0.5              | <0.5                        | <1.0              | --             | --           | 11.45         | 0.00          | 9.59          |
|                    | 09/07/95              | <50                        | <250                     | <b>850</b>            | <b>10</b>         | <0.5              | <0.5                        | <1.0              | --             | --           | 11.14         | 0.00          | 9.90          |
|                    | 12/08/95              | <50                        | <b>960</b>               | <b>3,100</b>          | <b>37</b>         | <0.5              | <0.5                        | <1.0              | --             | --           | 10.85         | 0.00          | 10.19         |
|                    | 04/01/96              | <50                        | 300                      | <750                  | 4.5               | <0.5              | <0.5                        | <1.0              | --             | --           | 10.98         | 0.00          | 10.06         |
|                    | 06/25/96              | <50.0                      | 370                      | <750                  | 2.57              | <0.500            | <0.500                      | <1.00             | --             | --           | 11.06         | 0.00          | 9.98          |
|                    | 09/27/96              | <50.0                      | 339                      | <750                  | 4.4               | <0.5              | <0.500                      | <1.00             | --             | --           | 11.33         | 0.00          | 9.71          |
|                    | 03/28/97              | <50.0                      | <250                     | <750                  | <b>5.89</b>       | 0.884             | <0.500                      | 2.47              | --             | --           | 11.13         | 0.00          | 9.91          |
|                    | 06/30/97 <sup>2</sup> | <50.0                      | <250                     | <750                  | <b>59.2</b>       | <0.500            | <0.500                      | <1.00             | --             | --           | 7.08          | 0.00          | 13.96         |
|                    | 09/08/97 <sup>2</sup> | 83                         | <250                     | <750                  | <b>35.5</b>       | <0.500            | 2.10                        | 3.08              | --             | --           | 11.46         | 0.00          | 9.58          |
|                    | 12/19/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/16/98 <sup>2</sup> | 76.3                       | 408                      | <750                  | <b>26.5</b>       | <0.500            | <0.500                      | <1.00             | --             | --           | 11.09         | 0.00          | 9.95          |
|                    | 06/26/98 <sup>2</sup> | <50.0                      | 346                      | <750                  | <b>69.6</b>       | <0.500            | <0.500                      | <1.00             | --             | --           | 11.26         | 0.00          | 9.78          |
|                    | 09/23/98 <sup>2</sup> | <50.0                      | 267                      | <750                  | <b>9.05</b>       | <0.500            | <0.500                      | <1.00             | --             | --           | 11.75         | 0.00          | 9.29          |
|                    | 12/17/98 <sup>2</sup> | <50.0                      | <250                     | <750                  | <b>33.0</b>       | <0.500            | <0.500                      | <1.00             | --             | --           | 11.07         | 0.00          | 9.97          |
|                    | 03/31/99 <sup>2</sup> | <50.0                      | 267                      | <750                  | <b>9.84</b>       | <0.500            | 0.782                       | 2.47              | --             | --           | 10.97         | 0.00          | 10.07         |
|                    | 06/30/99 <sup>2</sup> | 146                        | 253                      | <750                  | <b>28.2</b>       | 7.47              | 2.95                        | 17.5              | --             | --           | 9.97          | 0.00          | 11.07         |
|                    | 12/08/99 <sup>2</sup> | <50.0                      | <250                     | <750                  | <b>20.5</b>       | <0.500            | <0.500                      | <1.00             | --             | --           | 11.06         | 0.00          | 9.98          |
|                    | 06/20/00 <sup>b</sup> | <50.0                      | <250                     | <750                  | 3.79              | <0.500            | <0.500                      | <1.00             | --             | --           | 11.40         | 0.00          | 9.64          |
|                    | 12/19/00 <sup>b</sup> | 55.9                       | 253                      | <749                  | 2.97              | 0.948             | 0.730                       | 4.78              | --             | --           | 11.40         | 0.00          | 9.64          |
|                    | 06/15/01 <sup>b</sup> | <50.0                      | 405                      | <750                  | 0.670             | <0.500            | <0.500                      | 1.22              | --             | --           | 11.32         | 0.00          | 9.72          |
|                    | 06/26/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/01 <sup>b</sup> | <50.0                      | <293                     | <587                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 11.46         | 0.00          | 9.58          |
|                    | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01              | 52                         | 487                      | <500                  | <b>5.61</b>       | 1.18              | 0.558                       | 3.34              | --             | --           | 11.17         | 0.00          | 9.87          |
|                    | 03/08/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/24/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/26/02 <sup>c</sup> | <100                       | 303                      | <500                  | 0.669             | <2.00             | <1.00                       | <1.50             | --             | --           | 12.28         | 0.00          | 8.76          |
|                    | 12/12/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/13/03              | <50.0                      | <321                     | <641                  | 0.883             | <0.500            | <0.500                      | <1.00             | --             | --           | 11.20         | 0.00          | 9.84          |
|                    | 06/12/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/19/03              | <50.0                      | <291                     | <581                  | 1.76              | <0.500            | <0.500                      | <1.00             | --             | --           | 12.37         | 0.00          | 8.67          |
|                    | 01/14/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/30/04              | <100                       | <129                     | <258                  | <1                | <1                | <1                          | <2                | --             | 1.76         | 11.95         | 0.00          | 9.09          |
|                    | 06/22/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/29/04              | 180                        | <249                     | <499                  | 3.6               | <0.50             | <0.50                       | <1.0              | --             | 0.1          | 12.00         | 0.00          | 9.04          |
|                    | 12/29/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/17/05              | <100                       | <250                     | <501                  | 2.2               | <1                | <1                          | <2                | --             | 0.8          | 11.69         | 0.00          | 9.35          |
|                    | 06/02/05              | <100                       | -- <sup>e</sup>          | -- <sup>e</sup>       | <b>15</b>         | <1                | <1                          | <2                | <1             | 1.3          | 11.18         | 0.00          | 9.86          |
|                    | 06/16/05              | --                         | <50                      | <250                  | --                | --                | --                          | --                | --             | 1.2          | 11.16         | 0.00          | 9.88          |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-44</b>       | 11/05/91              | <1,000                     | <1,000                   | --                    | <0.5              | <0.5              | <0.5                        | <0.5              | --             | --           | --            | --            | --            |
| 18.73              | 07/15/94              | <100                       | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <0.5              | --             | --           | 8.35          | 0.00          | 10.38         |
|                    | 10/26/94              | <50                        | 280                      | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 9.81          | 0.00          | 8.92          |
|                    | 03/08/95              | <50                        | 290                      | 940                   | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 9.44          | 0.00          | 9.29          |
|                    | 06/06/95              | <50                        | <250                     | 820                   | <0.5              | <0.5              | <0.5                        | 1.60              | --             | --           | 8.28          | 0.00          | 10.45         |
|                    | 09/07/95              | <50                        | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 7.94          | 0.00          | 10.79         |
|                    | 12/08/95              | <50                        | 520                      | 2,500                 | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 8.09          | 0.00          | 10.64         |
|                    | 04/01/96              | <50                        | <250                     | <750                  | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 7.98          | 0.00          | 10.75         |
|                    | 06/25/96              | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 7.90          | 0.00          | 10.83         |
|                    | 09/27/96              | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.28          | 0.00          | 10.45         |
|                    | 03/28/97              | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.07          | 0.00          | 10.66         |
|                    | 06/30/97 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 7.84          | 0.00          | 10.89         |
|                    | 09/08/97 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.65          | 0.00          | 10.08         |
|                    | 12/19/97 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.51          | 0.00          | 10.22         |
|                    | 03/16/98 <sup>2</sup> | 60.0                       | 310                      | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.43          | 0.00          | 10.30         |
|                    | 06/26/98 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.37          | 0.00          | 10.36         |
|                    | 09/23/98 <sup>2</sup> | <50.0                      | 343                      | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.30          | 0.00          | 9.43          |
|                    | 12/17/98 <sup>2</sup> | <50.0                      | 271                      | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.10          | 0.00          | 10.63         |
|                    | 03/31/99 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.18          | 0.00          | 10.55         |
|                    | 06/30/99 <sup>2</sup> | <50.0                      | 393                      | <750                  | <0.500            | 0.619             | <0.500                      | 1.21              | --             | --           | 8.03          | 0.00          | 10.70         |
|                    | 12/08/99 <sup>2</sup> | <50.0                      | 281                      | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.52          | 0.00          | 10.21         |
|                    | 06/20/00 <sup>b</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.53          | 0.00          | 9.20          |
|                    | 12/19/00 <sup>b</sup> | 301                        | 330                      | <750                  | <0.500            | 1.64              | 2.76                        | 22.1              | --             | --           | 9.20          | 0.00          | 9.53          |
|                    | 06/15/01 <sup>b</sup> | <50.0                      | 468                      | <841                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 8.44          | 0.00          | 10.29         |
|                    | 06/26/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/01 <sup>b</sup> | <b>10,300</b>              | <b>4,250</b>             | <b>849</b>            | <b>1,050</b>      | 6.97              | 945                         | 51.0              | --             | --           | 9.48          | 0.00          | 9.25          |
|                    | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01              | 90.6                       | <b>823</b>               | <500                  | <b>10.9</b>       | 1.40              | 0.644                       | 4.04              | --             | --           | 9.31          | 0.00          | 9.42          |
|                    | 03/08/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/24/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/26/02 <sup>c</sup> | <100                       | <b>1,600</b>             | <b>569</b>            | <b>14.2</b>       | <2.00             | <1.00                       | <1.50             | --             | --           | 10.79         | 0.00          | 7.94          |
|                    | 12/12/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/13/03              | 196                        | 347                      | <575                  | <b>26.8</b>       | <0.500            | <0.500                      | <1.00             | --             | --           | 11.58         | 0.00          | 7.15          |
|                    | 06/12/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/19/03              | 156                        | <301                     | <602                  | <b>20.2</b>       | 0.997             | <0.500                      | 2.61              | --             | --           | 10.97         | 0.00          | 7.76          |
|                    | 01/14/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/30/04              | <100                       | <134                     | <268                  | <1                | <1                | <1                          | <2                | --             | 1.9          | 10.01         | 0.00          | 8.72          |
|                    | 06/22/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/29/04              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/29/04              | <100                       | <260                     | <520                  | <1                | <1                | <1                          | <2                | --             | 0.3          | 9.24          | 0.00          | 9.49          |
|                    | 03/17/05              | <100                       | <240                     | <480                  | <1                | <1                | <1                          | <2                | --             | 0.4          | 9.48          | 0.00          | 9.25          |
|                    | 06/02/05              | <100                       | -- <sup>e</sup>          | -- <sup>e</sup>       | <1                | <1                | <1                          | <2                | <1             | 1.2          | 8.30          | 0.00          | 10.43         |
|                    | 06/16/05              | --                         | <50                      | <250                  | --                | --                | --                          | --                | --             | 1.3          | 8.32          | 0.00          | 10.41         |
| <b>MW-45</b>       | 11/04/91              | <b>17,000</b>              | <b>2,000</b>             | --                    | <b>500</b>        | 1,000             | 370                         | <b>2,300</b>      | --             | --           | --            | --            | --            |
| 18.11              | 12/29/93              | <b>11,000</b>              | <b>1,100</b>             | <b>860</b>            | <b>2,900</b>      | 760               | 680                         | <b>3,000</b>      | --             | --           | 8.79          | 0.00          | 9.32          |
|                    | 04/07/94              | <b>16,000</b>              | <b>830</b>               | <750                  | <b>2,500</b>      | 620               | 580                         | <b>2,500</b>      | --             | --           | 8.22          | 0.00          | 9.89          |
|                    | 07/14/94              | <b>25,000</b>              | <b>850</b>               | <b>1,100</b>          | <b>4,000</b>      | 750               | <b>870</b>                  | <b>3,600</b>      | --             | --           | 8.39          | 0.00          | 9.72          |
|                    | 10/25/94              | <b>19,000</b>              | <b>1,000</b>             | <750                  | <b>2,600</b>      | 230               | <b>920</b>                  | <b>3,000</b>      | --             | --           | 9.10          | 0.00          | 9.01          |
|                    | 09/07/01 <sup>b</sup> | <50.0                      | 375                      | <606                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.80          | 0.00          | 8.31          |

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AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-45</b>       | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
| <b>(cont'd)</b>    | 12/28/01              | <b>17,300</b>              | <b>2,210</b>             | <b>597</b>            | <b>2,130</b>      | 73.4              | <b>1,330</b>                | <b>2,970</b>      | --             | --           | 9.03          | 0.00          | 9.08          |
|                    | 03/08/02              | <b>15,500</b>              | <b>2,380</b>             | <b>686</b>            | <b>2,090</b>      | 38.4              | <b>1,190</b>                | <b>1,650</b>      | --             | --           | 9.12          | 0.00          | 8.99          |
|                    | 06/24/02              | <b>5,100</b>               | <b>1,920</b>             | <b>761</b>            | <b>1,330</b>      | 6.39              | 451                         | 235               | --             | --           | 9.00          | 0.00          | 9.11          |
|                    | 09/26/02 <sup>c</sup> | <b>2,420</b>               | <b>1,190</b>             | <b>547</b>            | <b>394</b>        | 3.41              | 204                         | 106               | --             | --           | 10.20         | 0.00          | 7.91          |
|                    | 12/12/02              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 03/13/03              | <b>3,590</b>               | <b>2,050</b>             | <500                  | <b>219</b>        | 133               | 99.4                        | 368               | --             | --           | 8.05          | 0.00          | 10.06         |
|                    | 06/12/03              | <b>10,700</b>              | <b>1,470</b>             | <575                  | <b>1,350</b>      | 10.8              | 954                         | 631               | --             | --           | 9.16          | 0.00          | 8.95          |
|                    | 09/19/03              | 583                        | <298                     | <595                  | 1.93              | 2.25              | 5.65                        | 38.6              | --             | --           | 10.68         | 0.00          | 7.43          |
|                    | 01/14/04              | 360                        | <118                     | <236                  | 4.97              | <0.5              | 2.48                        | 1.01              | --             | 0.4          | 10.12         | 0.00          | 7.99          |
|                    | 03/30/04              | 303                        | 234                      | <240                  | <1                | <1                | <1                          | <2                | --             | 0.84         | 10.19         | 0.00          | 7.92          |
|                    | 06/22/04              | 151                        | 365                      | 358                   | <1                | <1                | <1                          | <2                | --             | 0.7          | 10.34         | 0.00          | 7.77          |
|                    | 09/29/04              | 270                        | <251                     | <503                  | <0.50             | 1.5               | 0.62                        | 7.3               | --             | 0.9          | 10.40         | 0.00          | 7.71          |
|                    | 12/29/04              | 207                        | <249                     | <498                  | 2.90              | <1                | <1                          | 9.04              | --             | 0.3          | 9.40          | 0.00          | 8.71          |
|                    | 03/17/05              | 235                        | <239                     | <477                  | <b>5.61</b>       | 1.08              | 2.49                        | 19.1              | --             | 1.2          | 9.44          | 0.00          | 8.67          |
|                    | 06/01/05              | 793                        | 283 <sup>ij</sup>        | <491 <sup>l</sup>     | <b>17.1</b>       | 37.9              | 13.9                        | 83.8              | <1             | 1.3          | 8.62          | 0.00          | 9.49          |
| <b>MW-46</b>       | 11/05/91              | <1,000                     | <1,000                   | --                    | <0.5              | 0.6               | <0.5                        | 1.2               | --             | --           | --            | --            | --            |
| 16.91              | 07/15/94              | <100                       | 270                      | <b>1,200</b>          | <0.5              | <0.5              | <0.5                        | <0.5              | --             | --           | 7.15          | 0.00          | 9.76          |
|                    | 10/25/94              | <50                        | <b>1,500</b>             | <b>7,300</b>          | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 8.51          | 0.00          | 8.40          |
|                    | 03/08/95              | <50                        | <b>720</b>               | <b>3,600</b>          | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 8.00          | 0.00          | 8.91          |
|                    | 06/06/95              | <50                        | <250                     | <b>1,400</b>          | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 7.30          | 0.00          | 9.61          |
|                    | 09/07/95              | <50                        | <b>710</b>               | <b>5,600</b>          | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 7.80          | 0.00          | 9.11          |
|                    | 12/08/95              | <50                        | <b>1,400</b>             | <b>14,000</b>         | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 8.32          | 0.00          | 8.59          |
|                    | 04/01/96              | <50                        | <400                     | <b>2,800</b>          | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 7.04          | 0.00          | 9.87          |
|                    | 06/25/96              | <50.0                      | 440                      | <b>2,090</b>          | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 7.85          | 0.00          | 9.06          |
|                    | 09/27/96              | <50.0                      | 267                      | <750                  | 0.518             | <0.500            | <0.500                      | <1.00             | --             | --           | 7.57          | 0.00          | 9.34          |
|                    | 03/28/97              | <50.0                      | <250                     | <750                  | <0.500            | 1.25              | <0.500                      | 2.06              | --             | --           | 7.25          | 0.00          | 9.66          |
|                    | 06/30/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 7.12          | 0.00          | 9.79          |
|                    | 09/08/97              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | 8.82          | 0.00          | 8.09          |
|                    | 12/19/97 <sup>2</sup> | <50.0                      | <250                     | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.40          | 0.00          | 7.51          |
|                    | 03/16/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/26/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/23/98              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/17/98 <sup>2</sup> | <50.0                      | 354                      | <750                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 9.20          | 0.00          | 7.71          |
|                    | 03/31/99              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/30/99              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/08/99              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/20/00              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/19/00              | 226                        | 277                      | <750                  | <0.500            | 2.18              | 2.53                        | 18.0              | --             | --           | 12.70         | 0.00          | 4.21          |
|                    | 06/15/01 <sup>b</sup> | <50.0                      | 295                      | <750                  | <0.500            | <0.500            | <0.500                      | 1.39              | --             | --           | 7.19          | 0.00          | 9.72          |
|                    | 06/26/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 10/10/01              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01              | Covered by asphalt         |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 03/08/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/24/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/26/02              | Unable to locate           |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 12/12/02              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l)  | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------|-----------------------|----------------------------|--------------------------|------------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-46</b>       | 03/13/03              | Covered by asphalt         |                          |                        |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
| <b>(cont'd)</b>    | 06/12/03              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/19/03              | Covered by asphalt         |                          |                        |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                    | 01/14/04              | Monitoring Discontinued    |                          |                        |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
| <b>MW-47</b>       | 11/05/91              | <1,000                     | <1,000                   | --                     | <b>5.2</b>        | 0.5               | <0.5                        | <0.5              | --             | --           | --            | --            | --            |
| 19.83              | 12/30/93              | <100                       | 310                      | <750                   | 2.0               | <0.5              | <0.5                        | 1.0               | --             | --           | 9.50          | 0.00          | 10.33         |
|                    | 04/07/94              | <100                       | 300                      | <750                   | 2.5               | <0.5              | <0.5                        | <0.5              | --             | --           | 10.47         | 0.00          | 9.36          |
|                    | 07/14/94              | <100                       | 290                      | <750                   | 1.6               | <0.5              | <0.5                        | <0.5              | --             | --           | 10.51         | 0.00          | 9.32          |
|                    | 10/25/94              | 51                         | 270                      | <750                   | 1.8               | <0.5              | <0.5                        | <1.0              | --             | --           | 11.02         | 0.00          | 8.81          |
|                    | 03/08/95              | <50                        | 330                      | <b>1,600</b>           | <b>5.3</b>        | <0.5              | <0.5                        | <1.0              | --             | --           | 10.88         | 0.00          | 8.95          |
|                    | 06/06/95              | 70                         | 380                      | 780                    | <b>15</b>         | 0.59              | <0.5                        | 2.3               | --             | --           | 10.91         | 0.00          | 8.92          |
|                    | 09/07/95              | <50                        | 260                      | <750                   | 1.7               | <0.5              | <0.5                        | <1.0              | --             | --           | 10.76         | 0.00          | 9.07          |
|                    | 12/08/95              | 740                        | 580                      | <b>2,000</b>           | <0.5              | <0.5              | <0.5                        | <1.0              | --             | --           | 10.40         | 0.00          | 9.43          |
|                    | 04/01/96              | <50                        | <250                     | <750                   | 4.4               | <0.5              | <0.5                        | <1.0              | --             | --           | 10.67         | 0.00          | 9.16          |
|                    | 06/25/96              | 110                        | 400                      | <750                   | <b>14.4</b>       | <0.500            | <0.500                      | <1.00             | --             | --           | 10.71         | 0.00          | 9.12          |
|                    | 09/27/96              | <50.0                      | <250                     | <750                   | 4.34              | <0.500            | <0.500                      | <1.00             | --             | --           | 10.85         | 0.00          | 8.98          |
|                    | 03/28/97 <sup>2</sup> | 64.5                       | <250                     | <750                   | <b>7.61</b>       | <0.500            | <0.500                      | 1.57              | --             | --           | 10.92         | 0.00          | 8.91          |
|                    | 03/28/97              | 177                        | <250                     | <750                   | <b>52.6</b>       | <0.500            | <0.500                      | <1.00             | --             | --           | 10.92         | 0.00          | 8.91          |
|                    | 06/30/97              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/08/97              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/19/97              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/16/98              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/26/98 <sup>2</sup> | <50.0                      | 356                      | <750                   | <b>27.3</b>       | <0.500            | <0.500                      | <1.00             | --             | --           | 10.78         | 0.00          | 9.05          |
|                    | 09/23/98              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/17/98 <sup>2</sup> | <50.0                      | <250                     | <750                   | 3.34              | <0.500            | <0.500                      | 1.12              | --             | --           | 10.61         | 0.00          | 9.22          |
|                    | 03/31/99              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | 9.65          | 0.00          | 10.18         |
|                    | 06/30/99              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/08/99              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/20/00 <sup>b</sup> | <50.0                      | <250                     | <750                   | <1.30             | <0.500            | <0.500                      | <1.00             | --             | --           | 10.94         | 0.00          | 8.89          |
|                    | 12/19/00 <sup>b</sup> | <b>1,310</b>               | 357                      | <750                   | <0.500            | 6.10              | 10.6                        | 77.3              | --             | --           | 11.20         | 0.00          | 8.63          |
|                    | 06/15/01              | <50.0                      | <b>591</b>               | <952                   | 0.709             | 0.504             | <0.500                      | 1.18              | --             | --           | 10.98         | 0.00          | 8.85          |
|                    | 06/26/01              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/07/01 <sup>b</sup> | <50.0                      | 356                      | <500                   | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 11.14         | 0.00          | 8.69          |
|                    | 10/10/01              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 12/28/01              | 181                        | <b>542</b>               | <500                   | <b>7.64</b>       | 1.49              | 4.79                        | 37.8              | --             | --           | 10.90         | 0.00          | 8.93          |
|                    | 03/08/02              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 06/24/02              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/26/02 <sup>c</sup> | 106                        | <b>747</b>               | <500                   | 2.36              | <2.00             | <1.00                       | <1.50             | --             | --           | 11.85         | 0.00          | 7.98          |
|                    | 12/12/02              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/13/03              | 75.5                       | <284                     | <568                   | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 10.91         | 0.00          | 8.92          |
|                    | 06/12/03              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/19/03              | 76.8                       | <294                     | <588                   | 3.41              | <0.500            | <0.500                      | 1.14              | --             | --           | 12.05         | 0.00          | 7.78          |
|                    | 01/14/04              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/30/04              | 272                        | 262                      | 980                    | <1                | <1                | <1                          | <2                | --             | 1.21         | 11.81         | 0.00          | 8.02          |
|                    | 06/22/04              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 09/29/04              | 200                        | 329                      | 735                    | <0.50             | <0.50             | <0.50                       | <1.0              | --             | 0.2          | 11.87         | 0.00          | 7.96          |
|                    | 12/29/04              | --                         | --                       | --                     | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                    | 03/17/05              | 166                        | <248                     | <495                   | <1                | <1                | <1                          | <2                | --             | 0.8          | 11.62         | 0.00          | 8.21          |
|                    | 06/01/05              | 217                        | <252                     | <b>616<sup>f</sup></b> | <1                | <1                | <1                          | <2                | 1.3            | 1.7          | 11.25         | 0.00          | 8.58          |

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC       | Sample<br>Date        | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l) | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--------------------------|-----------------------|----------------------------|--------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-48<sup>a</sup></b> | 06/01/05              | 357                        | 294 <sup>g</sup>         | <494                  | <1                | <1                | <1                          | <2                | <1             | 1.3          | 9.40          | 0.00          | --            |
| <b>MW-50</b>             | 10/10/01              | <b>8,970</b>               | <b>2,200</b>             | <606                  | <b>674</b>        | 221               | 382                         | 779               | --             | --           | 11.11         | 0.00          | 8.69          |
| 19.80                    | 12/28/01              | <b>23,200</b>              | <b>3,460</b>             | <500                  | <b>1,630</b>      | <b>3,690</b>      | <b>991</b>                  | <b>4,480</b>      | --             | --           | 10.45         | 0.00          | 9.35          |
|                          | 03/08/02              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                          | 06/24/02              | <b>8,290</b>               | <b>1,970</b>             | <b>556</b>            | <b>414</b>        | 23                | 314                         | <b>2,010</b>      | --             | --           | 10.84         | 0.00          | 8.96          |
|                          | 09/26/02              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                          | 12/12/02              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                          | 03/13/03              | <b>12,200</b>              | <b>1,810</b>             | <588                  | <b>733</b>        | 127               | 523                         | <b>1,100</b>      | --             | --           | 9.93          | 0.00          | 9.87          |
|                          | 06/12/03              | <b>6,450</b>               | <b>1,740</b>             | <500                  | <b>448</b>        | 13.7              | 299                         | 286               | --             | --           | 11.27         | 0.00          | 8.53          |
|                          | 09/19/03              | <b>4,440</b>               | <250                     | <500                  | <b>51.7</b>       | 315               | 26.1                        | 462               | --             | --           | 12.05         | 0.00          | 7.75          |
|                          | 01/14/04              | <b>29,700</b>              | <b>1,970</b>             | <258                  | <b>308</b>        | 502               | 312                         | <b>6,180</b>      | --             | 4.1          | 11.81         | 0.00          | 7.99          |
|                          | 03/30/04              | <b>3,330</b>               | <b>867</b>               | <241                  | <b>21.8</b>       | <5                | 21.9                        | 226.4             | --             | 1.69         | 11.65         | 0.00          | 8.15          |
|                          | 06/22/04              | <b>2,130</b>               | <b>874</b>               | <237                  | <b>14.2</b>       | 2.4               | 27.9                        | 85.11             | --             | 1.1          | 11.79         | 0.00          | 8.01          |
|                          | 09/29/04              | <b>3,600</b>               | <b>1,330</b>             | <502                  | <b>92</b>         | 62                | 100                         | 520               | --             | 0.2          | 11.71         | 0.00          | 8.09          |
|                          | 12/29/04              | <b>1,570</b>               | <b>745</b>               | <611                  | <b>9.69</b>       | 3.88              | 9.98                        | 27.62             | --             | 1.5          | 11.01         | 0.00          | 8.79          |
|                          | 03/17/05              | <b>1,420</b>               | <b>1,060</b>             | <b>506</b>            | <b>5.82</b>       | 2.41              | 10.6                        | 30.59             | --             | 0.6          | 11.26         | 0.00          | 8.54          |
|                          | 06/01/05              | <b>1,710</b>               | <b>528<sup>g</sup></b>   | <503                  | <b>20.3</b>       | 10.7              | 42.3                        | 84.7              | 8.01           | 1.3          | 10.58         | 0.00          | 9.22          |
| <b>MW-51</b>             | 10/10/01              | 671                        | <b>11,700</b>            | <b>2,150</b>          | <b>10.1</b>       | 10.4              | 7.75                        | 16.6              | --             | --           | 11.68         | 0.00          | 8.90          |
| 20.58                    | 12/28/01              | 631                        | <b>2,170</b>             | <b>3,100</b>          | <b>37.0</b>       | 75.6              | 30.4                        | 81.2              | --             | --           | 11.20         | 0.00          | 9.38          |
|                          | 03/08/02              | 102                        | <b>2,350</b>             | <b>1,610</b>          | <b>6.22</b>       | 5.89              | 3.84                        | 10.4              | --             | --           | 11.38         | 0.00          | 9.20          |
|                          | 06/24/02              | 57.7                       | <b>2,650</b>             | <b>1,730</b>          | 1.28              | 1.42              | 0.699                       | 2.51              | --             | --           | 11.60         | 0.00          | 8.98          |
|                          | 09/26/02 <sup>c</sup> | <100                       | <b>1,660</b>             | <b>875</b>            | 0.848             | <2.00             | <1.00                       | <1.50             | --             | --           | 12.18         | 0.00          | 8.40          |
|                          | 12/12/02              | <50.0                      | <b>2,050</b>             | <b>781</b>            | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 12.28         | 0.00          | 8.30          |
|                          | 03/13/03              | <50.0                      | <b>693</b>               | <625                  | <0.500            | <0.500            | <0.500                      | <1.00             | --             | --           | 11.05         | 0.00          | 9.53          |
|                          | 06/12/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/19/03              | 52.4                       | <250                     | <500                  | 1.47              | 1.81              | 0.544                       | 3.59              | --             | --           | 12.42         | 0.00          | 8.16          |
|                          | 01/14/04              | 73.5                       | <139                     | <278                  | <0.25             | 0.804             | <0.5                        | <1                | --             | 0.4          | 11.79         | 0.00          | 8.79          |
|                          | 03/30/04              | <100                       | 404                      | 401                   | <1                | <1                | <1                          | <2                | --             | 1.56         | 12.22         | 0.00          | 8.36          |
|                          | 06/22/04              | 104                        | 129                      | <237                  | <1                | <1                | <1                          | <2                | --             | 1.2          | 12.10         | 0.00          | 8.48          |
|                          | 09/29/04              | 150                        | <242                     | <484                  | <0.50             | <0.50             | <0.50                       | <1.0              | --             | 1.4          | 12.20         | 0.00          | 8.38          |
|                          | 12/29/04              | <100                       | <257                     | <514                  | <1                | <1                | <1                          | <2                | --             | 0.1          | 11.80         | 0.00          | 8.78          |
|                          | 03/17/05              | <100                       | <240                     | <481                  | <1                | <1                | <1                          | <2                | --             | 1.8          | 11.58         | 0.00          | 9.00          |
|                          | 06/01/05              | <100                       | 408 <sup>f</sup>         | <520                  | <1                | <1                | <1                          | <2                | <1             | 2.1          | 11.62         | 0.00          | 8.96          |
| <b>MW-52<sup>a</sup></b> | 10/10/01              | <b>13,400</b>              | <b>1,460</b>             | <582                  | <b>1,150</b>      | <10.0             | <b>827</b>                  | 793               | --             | --           | 10.79         | 0.00          | --            |
|                          | 12/28/01              | <b>7,900</b>               | <b>1,690</b>             | <b>595</b>            | <b>634</b>        | 5.87              | 509                         | 479               | --             | --           | 10.22         | 0.00          | --            |
|                          | 03/08/02              | <b>10,100</b>              | <b>2,790</b>             | <602                  | <b>814</b>        | 6.30              | 602                         | 387               | --             | --           | 10.42         | 0.00          | --            |
|                          | 06/24/02              | <b>9,820</b>               | <b>2,810</b>             | <b>640</b>            | <b>1,250</b>      | <25.0             | <b>757</b>                  | 448               | --             | --           | 10.58         | 0.00          | --            |
|                          | 09/26/02 <sup>c</sup> | <b>6,600</b>               | <b>3,530</b>             | <500                  | <b>943</b>        | 21.7              | 600                         | 284               | --             | --           | 11.51         | 0.00          | --            |
|                          | 12/12/02              | <b>1,170</b>               | <b>7,350</b>             | <b>638</b>            | <b>120</b>        | 0.822             | 73.9                        | 7.30              | --             | --           | 11.61         | 0.00          | --            |
|                          | 03/13/03              | <b>4,540</b>               | <b>1,530</b>             | <568                  | <b>272</b>        | 52.7              | 236                         | 210               | --             | --           | 9.59          | 0.00          | --            |
|                          | 06/12/03              | --                         | --                       | --                    | --                | --                | --                          | --                | --             | --           | NM            | NM            | --            |
|                          | 09/19/03              | Obstructed by vehicle      |                          |                       |                   |                   |                             |                   |                | --           | NM            | NM            | --            |
|                          | 01/14/04              | <b>905</b>                 | <126                     | <252                  | <b>16.6</b>       | 0.532             | 39.6                        | 2.45              | --             | 0.3          | 11.00         | 0.00          | --            |
|                          | 03/30/04              | 738                        | 462                      | <253                  | <b>16.8</b>       | <1                | 18.4                        | 24.66             | --             | 1.31         | 11.47         | 0.00          | --            |
|                          | 06/22/04              | <b>1,600</b>               | <b>593</b>               | <248                  | <b>161</b>        | <10               | 70.1                        | <20               | --             | 1.5          | 11.50         | 0.00          | --            |
|                          | 09/29/04              | 290                        | <253                     | <507                  | 4.9               | <0.50             | 4.8                         | 2.3               | --             | 0.3          | 11.45         | 0.00          | --            |
|                          | 12/29/04              | <b>844</b>                 | 272                      | <507                  | <b>28.7</b>       | <1                | 17                          | 9.22              | --             | 0.4          | 10.75         | 0.00          | --            |
|                          | 03/17/05              | 752                        | <238                     | <477                  | <b>18.9</b>       | <1                | 17.6                        | 3.75              | --             | 0.7          | 11.00         | 0.00          | --            |
|                          | 06/01/05              | 503                        | <249 <sup>g</sup>        | <498 <sup>g</sup>     | <b>28.3</b>       | <1                | 19                          | 7.06              | <1             | 1.4          | 10.30         | 0.00          | --            |



**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
AND WATER TABLE ELEVATIONS**

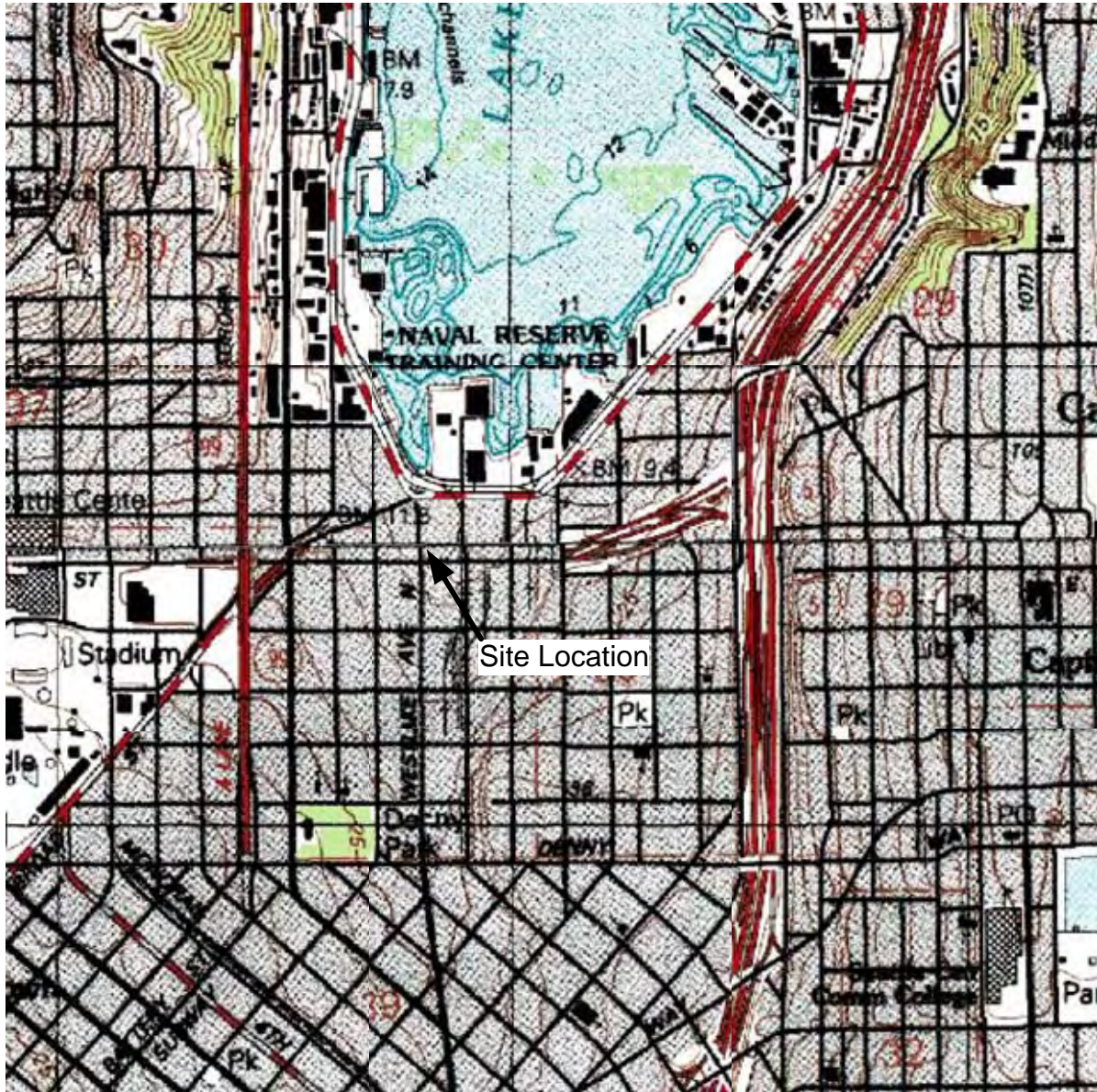
ConocoPhillips Site No. 255353  
600 Westlake Avenue N.  
Seattle, Washington

| Sample I.D.<br>TOC                                     | Sample<br>Date | TPH-<br>Gasoline<br>(µg/l) | TPH-<br>Diesel<br>(µg/l)   | TPH-<br>Oil<br>(µg/l) | Benzene<br>(µg/l) | Toluene<br>(µg/l) | Ethyl-<br>benzene<br>(µg/l) | Xylenes<br>(µg/l) | MTBE<br>(µg/l) | DO<br>(mg/l) | DTW<br>(feet) | SPH<br>(feet) | GWE<br>(feet) |
|--|----------------|----------------------------|----------------------------|-----------------------|-------------------|-------------------|-----------------------------|-------------------|----------------|--------------|---------------|---------------|---------------|
| <b>MW-53</b>   | 03/13/03       | <b>14,000</b>              | <b>1,030</b>               | <625                  | <b>398</b>        | 143               | 501                         | <b>1,170</b>      | --             | --           | 11.17         | 0.00          | 9.58          |
| 20.75  | 06/12/03       | <b>9,700</b>               | <b>1,370</b>               | <500                  | <b>553</b>        | 197               | 431                         | <b>1,270</b>      | --             | --           | 12.05         | 0.00          | 8.70          |
|  | 09/19/03       | <b>1,470</b>               | <250                       | <500                  | <b>29.3</b>       | 6.61              | 28.5                        | 111               | --             | --           | 12.85         | 0.00          | 7.90          |
|  | 01/14/04       | <b>2,770</b>               | 181                        | <264                  | <b>173</b>        | 3.79              | 91.7                        | 127.1             | --             | 0.4          | 11.70         | 0.00          | 9.05          |
|  | 03/30/04       | <b>3,580</b>               | <b>686</b>                 | <237                  | <b>257</b>        | 49.7              | 125                         | 204.8             | --             | 1.28         | 12.26         | 0.00          | 8.49          |
|  | 06/22/04       | <b>4,820</b>               | <b>750</b>                 | <240                  | <b>363</b>        | 85.2              | 188                         | 425               | --             | 1.1          | 12.23         | 0.00          | 8.52          |
|  | 09/29/04       | 240                        | 311                        | <509                  | 1.9               | <0.50             | 1.4                         | 6.7               | --             | 1.9          | 12.60         | 0.00          | 8.15          |
|  | 12/29/04       | <b>2,650</b>               | <b>655</b>                 | <491                  | <b>225</b>        | 11.9              | 92.8                        | 123.4             | --             | 0.3          | 11.70         | 0.00          | 9.05          |
|  | 03/17/05       | <b>1,560</b>               | 293                        | <515                  | <b>106</b>        | 3.25              | 40.9                        | 61.3              | --             | 1.4          | 12.97         | 0.00          | 7.78          |
|  | 06/01/05       | <b>3,120</b>               | 381 <sup>g</sup>           | 493 <sup>f</sup>      | <b>205</b>        | 5.98              | 120                         | 236.9             | 1.88           | 1.5          | 11.22         | 0.00          | 9.53          |
| <b>MW-54<sup>a</sup></b>                               | 06/16/05       | 206                        | 130 <sup>f</sup>           | 410                   | 4.82              | <1                | 2.09                        | 10.27             | <1             | 1.4          | 9.09          | 0.00          | --            |
| <b>MW-55<sup>a</sup></b>                               | 06/16/05       | <b>2,240</b>               | <b>3100<sup>f,i</sup></b>  | <2,500 <sup>j</sup>   | <2                | <2                | <2                          | <4                | <2             | 0.7          | 10.53         | 0.00          | --            |
| <b>MW-56<sup>a</sup></b>                               | 06/16/05       | 135                        | 210 <sup>f</sup>           | 380 <sup>f</sup>      | <1                | <1                | <1                          | <2                | 1.29           | 1.1          | 10.91         | 0.00          | --            |
| <b>MW-57<sup>a</sup></b>                               | 06/16/05       | <b>16,900</b>              | <b>1,800<sup>f</sup></b>   | <1,200                | <b>525</b>        | <b>2,310</b>      | 327                         | <b>2,188</b>      | <20            | 1.1          | 10.54         | 0.00          | --            |
| <b>MW-58<sup>a</sup></b>                               | 06/16/05       | <b>3,970</b>               | 420 <sup>f</sup>           | <250                  | <b>628</b>        | 499               | 143                         | 541               | <5             | 1.3          | 11.71         | 0.00          | --            |
| <b>MW-59<sup>a</sup></b>                               | 06/16/05       | <b>10,100</b>              | <b>1,700<sup>f</sup></b>   | <1,200                | <b>519</b>        | <10               | 176                         | 725.2             | <10            | 1.0          | 12.00         | 0.00          | --            |
| <b>MW-60<sup>a</sup></b>                               | 06/16/05       | <b>64,300</b>              | <b>4,300<sup>f,i</sup></b> | <5,000 <sup>j</sup>   | <b>4,100</b>      | <b>6,820</b>      | <b>2,260</b>                | <b>10,610</b>     | <40            | 0.8          | 11.54         | sheen         | --            |
| <b>MTCA Method A Cleanup<br/>Level for Groundwater</b> |                | <b>800<sup>k</sup></b>     | <b>500</b>                 | <b>500</b>            | <b>5</b>          | <b>1,000</b>      | <b>700</b>                  | <b>1,000</b>      | <b>20</b>      | -            | -             | -             | -             |

**NOTES:**

µg/l = micrograms per liter  
 TOC = Relative top of casing elevation  
 DO = Dissolved oxygen concentration, measured in the field with a dissolved oxygen meter  
 DTW = Depth to water  
 SPH = Separate-phase hydrocarbon thickness  
 GWE = Groundwater table elevation relative to DTW data; corrected for SPH where applicable using a specific gravity of 0.80  
 <n = Below the detection limit  
 "--" = Not analyzed, sampled, or reported  
 NM = Not Measured  
 TPH as Gasoline - Analysis by Northwest Method NWTPH-Gx  
 TPH as Diesel and Oil - Analysis by Northwest Method NWTPH-Dx  
 BTEX Compounds - Analysis by EPA Method 8020A, 8021B or 8260B  
 Values in **BOLD** are detectable concentrations exceeding the MTCA Method A groundwater cleanup level

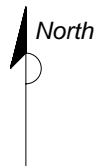
- <sup>a</sup> Top of casing elevation has not been established.
- <sup>b</sup> Well was not purged prior to sample collection.
- <sup>c</sup> TPH-Diesel and TPH-Oil did not resemble chromatogram used for quantitation.
- <sup>d</sup> Well casing was trimmed down during monument replacement in December 2004. New TOC elevation surveyed on January 27, 2005.
- <sup>e</sup> Quality control failed due to laboratory error. Quantitative analytical results not reported.
- <sup>f</sup> Contaminant does not appear to be "typical" product.
- <sup>g</sup> Chromatogram suggests that this may be overlap from the gasoline range.
- <sup>h</sup> Chromatogram suggests that this may be overlap from the motor oil range.
- <sup>i</sup> Surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.
- <sup>j</sup> Surrogate recovery outside advisory QC limits due to matrix interference.
- <sup>k</sup> MTCA Method A Cleanup Level for TPH-Gasoline is 1,000 µg/l if benzene is not detectable in groundwater.



**REFERENCES**

USGS 7.5 Minute Topographic Map  
 Name: Seattle South  
 Year Created: 1983

SCALE: 1: 12,000



NOT TO SCALE

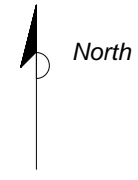
**FIGURE 1**

**SITE LOCATION MAP**

**CONOCOPHILLIPS SITE NO. 255353  
 600 WESTLAKE AVENUE NORTH  
 SEATTLE, WASHINGTON**

|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |





BROAD ST

VALLEY ST

WESTLAKE AVENUE N

TERRY AVENUE N

MERCER ST

Parking Lot

West Marine

**LEGEND**

- MW-3 ● GROUNDWATER MONITORING WELL
- GSB4 ● SOIL BORING INSTALLED BY GARY STRUTHERS & ASSOCIATES
- TP-8 ■ TEST PIT INSTALLED BY HART CROWSER
- B6 ● SOIL BORING INSTALLED BY HART CROWSER
- B15 ● SOIL BORING INSTALLED BY URBAN REDEVELOPMENT
- ▲ SOIL VAPOR EXTRACTION WELL LOCATION
- DAS-4 ◆ AIR SPARGING WELL LOCATION
- ◆ SOIL BORING LOCATION - JUNE 2005
- ◆/◆/◆ AS / SVE / GROUNDWATER MONITORING WELL LOCATION - JUNE 2005



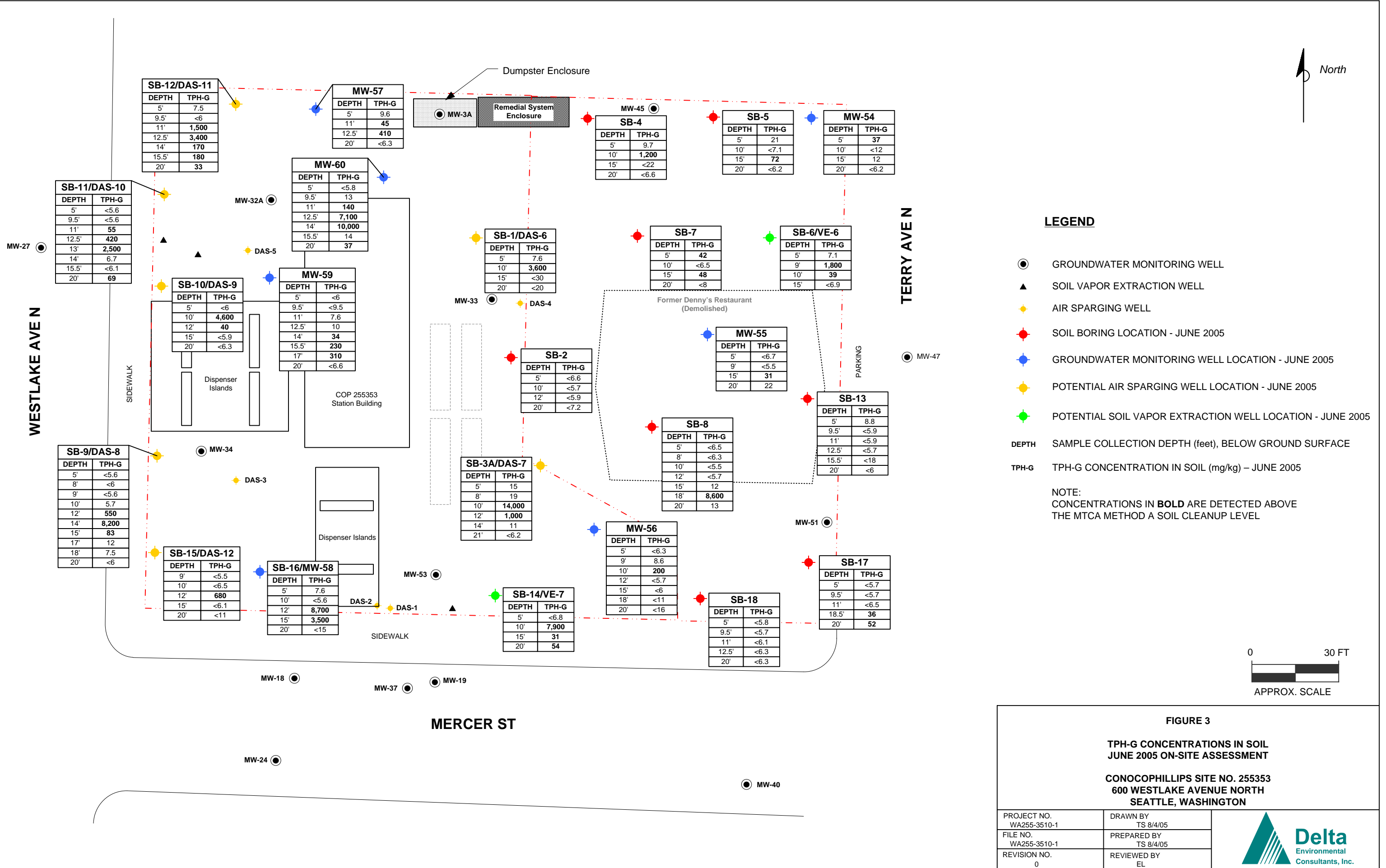
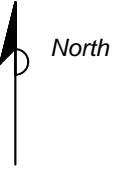
BASED ON MAPS PROVIDED BY GEOENGINEERS, INC. AND ENVIRONMENTAL RESOLUTIONS, INC.

**FIGURE 2**

**SITE MAP WITH DRILLING LOCATIONS  
JUNE 2005 ON-SITE ASSESSMENT**  
  
**CONOCOPHILLIPS SITE NO. 255353  
600 WESTLAKE AVENUE NORTH  
SEATTLE, WASHINGTON**

|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |





**LEGEND**

- GROUNDWATER MONITORING WELL
- ▲ SOIL VAPOR EXTRACTION WELL
- ◆ AIR SPARGING WELL
- ◆ SOIL BORING LOCATION - JUNE 2005
- ◆ GROUNDWATER MONITORING WELL LOCATION - JUNE 2005
- ◆ POTENTIAL AIR SPARGING WELL LOCATION - JUNE 2005
- ◆ POTENTIAL SOIL VAPOR EXTRACTION WELL LOCATION - JUNE 2005
- DEPTH SAMPLE COLLECTION DEPTH (feet), BELOW GROUND SURFACE
- TPH-G TPH-G CONCENTRATION IN SOIL (mg/kg) – JUNE 2005

NOTE:  
CONCENTRATIONS IN **BOLD** ARE DETECTED ABOVE THE MTCA METHOD A SOIL CLEANUP LEVEL

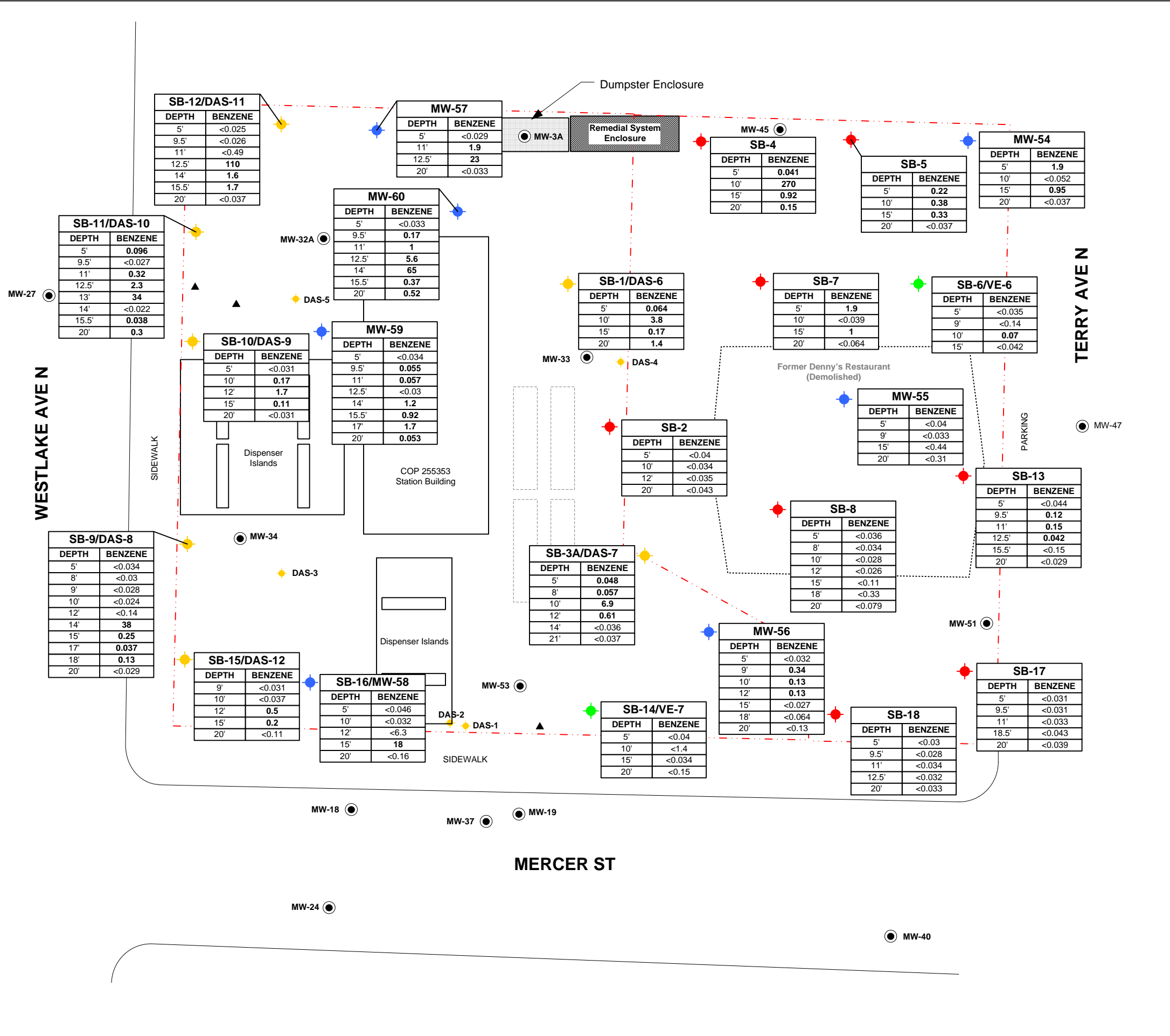
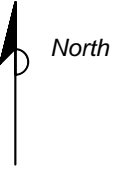


**FIGURE 3**  
**TPH-G CONCENTRATIONS IN SOIL**  
**JUNE 2005 ON-SITE ASSESSMENT**

**CONOCOPHILLIPS SITE NO. 255353**  
**600 WESTLAKE AVENUE NORTH**  
**SEATTLE, WASHINGTON**

|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |

**Delta**  
Environmental  
Consultants, Inc.



**LEGEND**

- GROUNDWATER MONITORING WELL
- ▲ SOIL VAPOR EXTRACTION WELL
- ◆ AIR SPARGING WELL
- ◆ SOIL BORING LOCATION - JUNE 2005
- ◆ GROUNDWATER MONITORING WELL LOCATION - JUNE 2005
- ◆ POTENTIAL AIR SPARGING WELL LOCATION - JUNE 2005
- ◆ POTENTIAL SOIL VAPOR EXTRACTION WELL LOCATION - JUNE 2005
- DEPTH SAMPLE COLLECTION DEPTH (feet), BELOW GROUND SURFACE
- BENZENE BENZENE CONCENTRATION IN SOIL (mg/kg) – JUNE 2005

NOTES:  
CONCENTRATIONS IN **BOLD** ARE DETECTED ABOVE THE MTCA METHOD A SOIL CLEANUP LEVEL.

DUE TO LABORATORY EQUIPMENT LIMITATIONS AND QUALITY CONTROL ISSUES, BENZENE DETECTION LIMITS FOR SOME SAMPLES EXCEED THE MTCA METHOD A SOIL CLEANUP LEVEL.

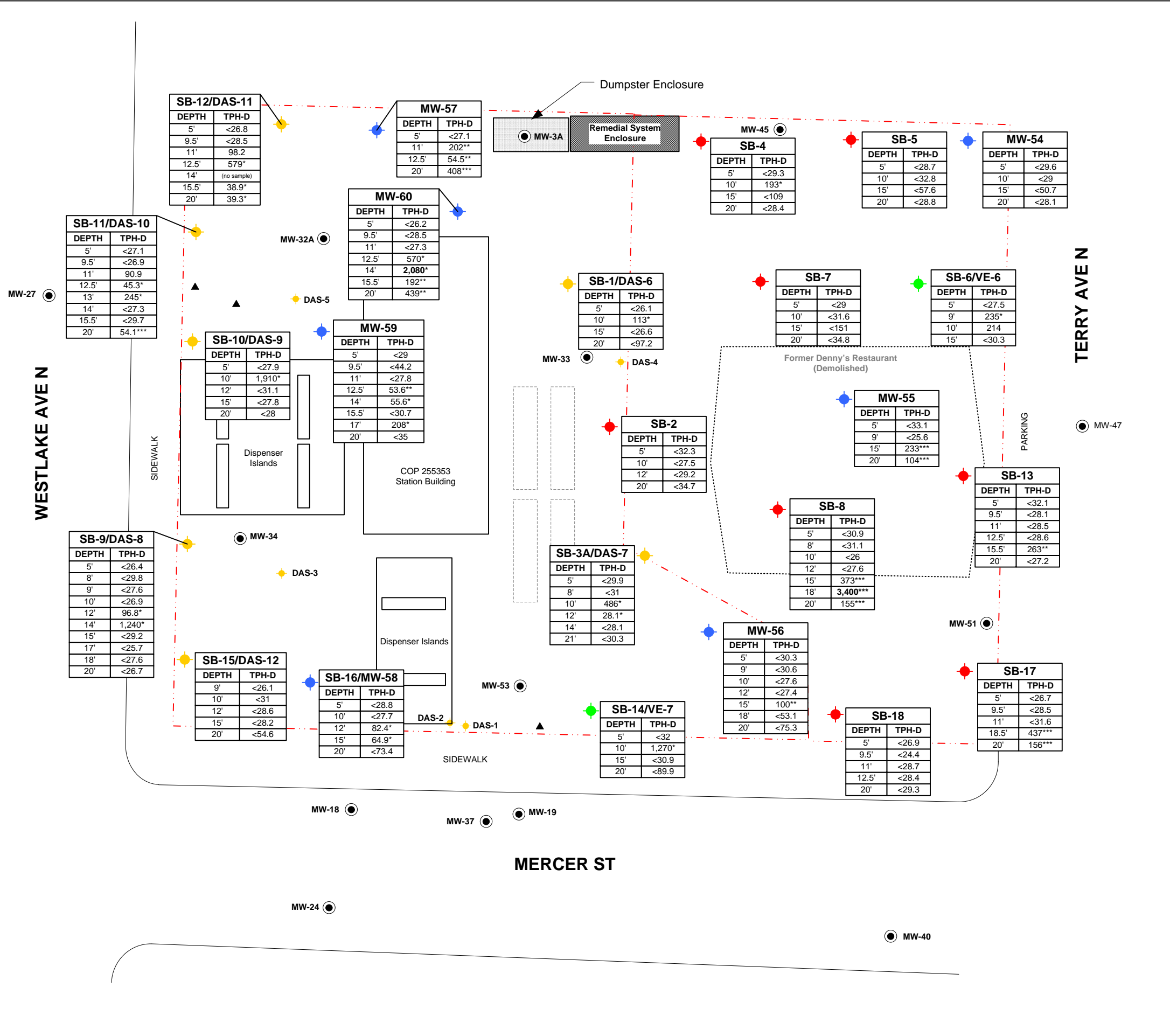
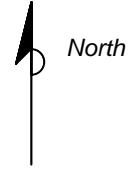


**FIGURE 4**  
**BENZENE CONCENTRATIONS IN SOIL**  
**JUNE 2005 ON-SITE ASSESSMENT**

**CONOCOPHILLIPS SITE NO. 255353**  
**600 WESTLAKE AVENUE NORTH**  
**SEATTLE, WASHINGTON**

|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |

**Delta**  
Environmental  
Consultants, Inc.



**LEGEND**

- GROUNDWATER MONITORING WELL
- ▲ SOIL VAPOR EXTRACTION WELL
- ◆ AIR SPARGING WELL
- ◆ SOIL BORING LOCATION - JUNE 2005
- ◆ GROUNDWATER MONITORING WELL LOCATION - JUNE 2005
- ◆ POTENTIAL AIR SPARGING WELL LOCATION - JUNE 2005
- ◆ POTENTIAL SOIL VAPOR EXTRACTION WELL LOCATION - JUNE 2005
- DEPTH SAMPLE COLLECTION DEPTH (feet), BELOW GROUND SURFACE
- TPH-D TPH-D CONCENTRATION IN SOIL (mg/kg) – JUNE 2005
- \* APPEARS TO BE OVERLAP FROM GASOLINE RANGE
- \*\* APPEARS TO BE OVERLAP FROM MOTOR OIL RANGE
- \*\*\* REPORTED AS NOT "TYPICAL" PRODUCT

NOTE:  
CONCENTRATIONS IN **BOLD** ARE DETECTED ABOVE THE MTCA METHOD A SOIL CLEANUP LEVEL

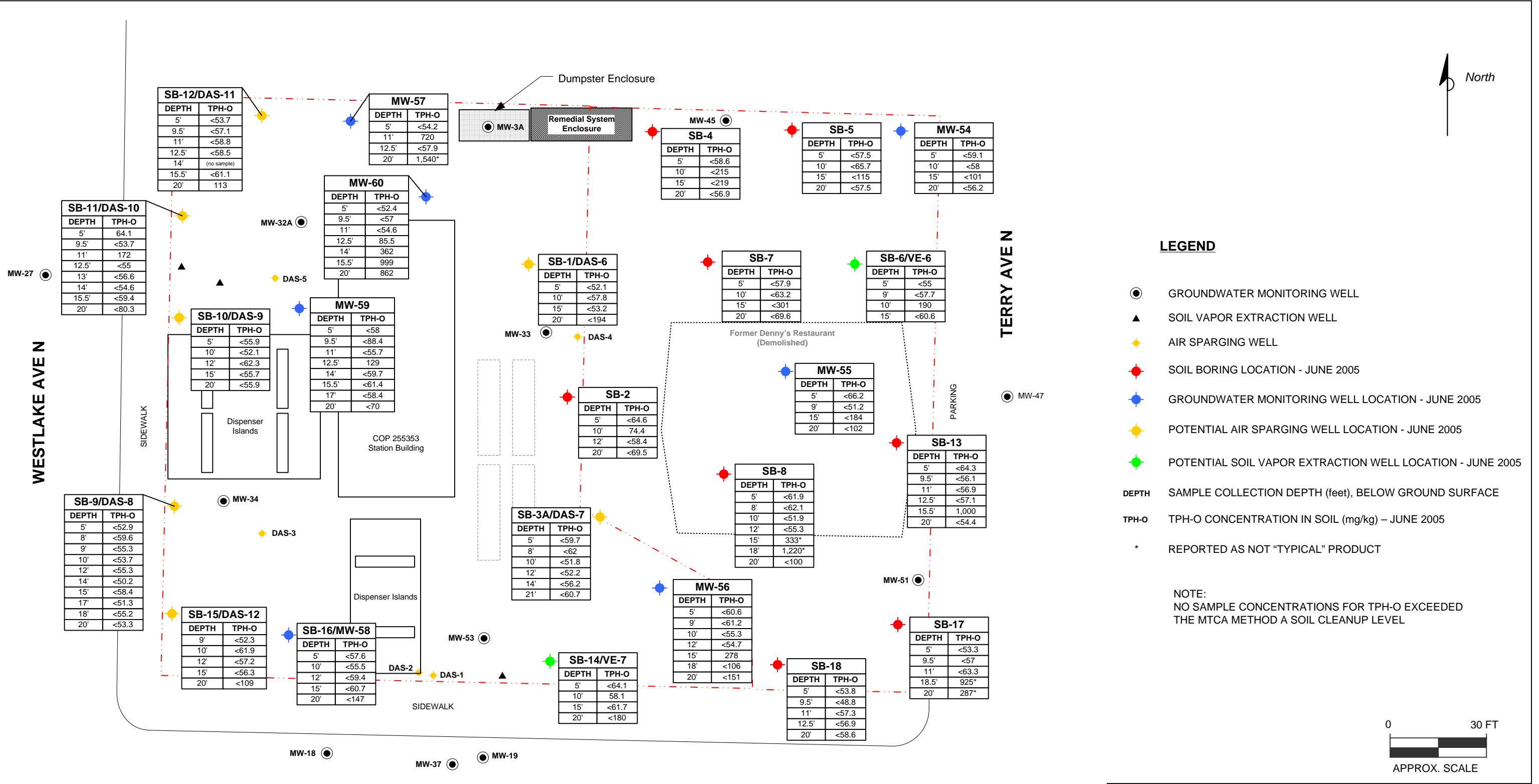
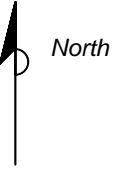


**FIGURE 5**  
**TPH-D CONCENTRATIONS IN SOIL**  
**JUNE 2005 ON-SITE ASSESSMENT**

**CONOCOPHILLIPS SITE NO. 255353**  
**600 WESTLAKE AVENUE NORTH**  
**SEATTLE, WASHINGTON**

|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |

**Delta**  
Environmental  
Consultants, Inc.



**LEGEND**

- GROUNDWATER MONITORING WELL
- ▲ SOIL VAPOR EXTRACTION WELL
- ◆ AIR SPARGING WELL
- ◆ SOIL BORING LOCATION - JUNE 2005
- ◆ GROUNDWATER MONITORING WELL LOCATION - JUNE 2005
- ◆ POTENTIAL AIR SPARGING WELL LOCATION - JUNE 2005
- ◆ POTENTIAL SOIL VAPOR EXTRACTION WELL LOCATION - JUNE 2005

DEPTH SAMPLE COLLECTION DEPTH (feet), BELOW GROUND SURFACE

TPH-O TPH-O CONCENTRATION IN SOIL (mg/kg) – JUNE 2005

\* REPORTED AS NOT "TYPICAL" PRODUCT

NOTE:  
NO SAMPLE CONCENTRATIONS FOR TPH-O EXCEEDED THE MTCA METHOD A SOIL CLEANUP LEVEL




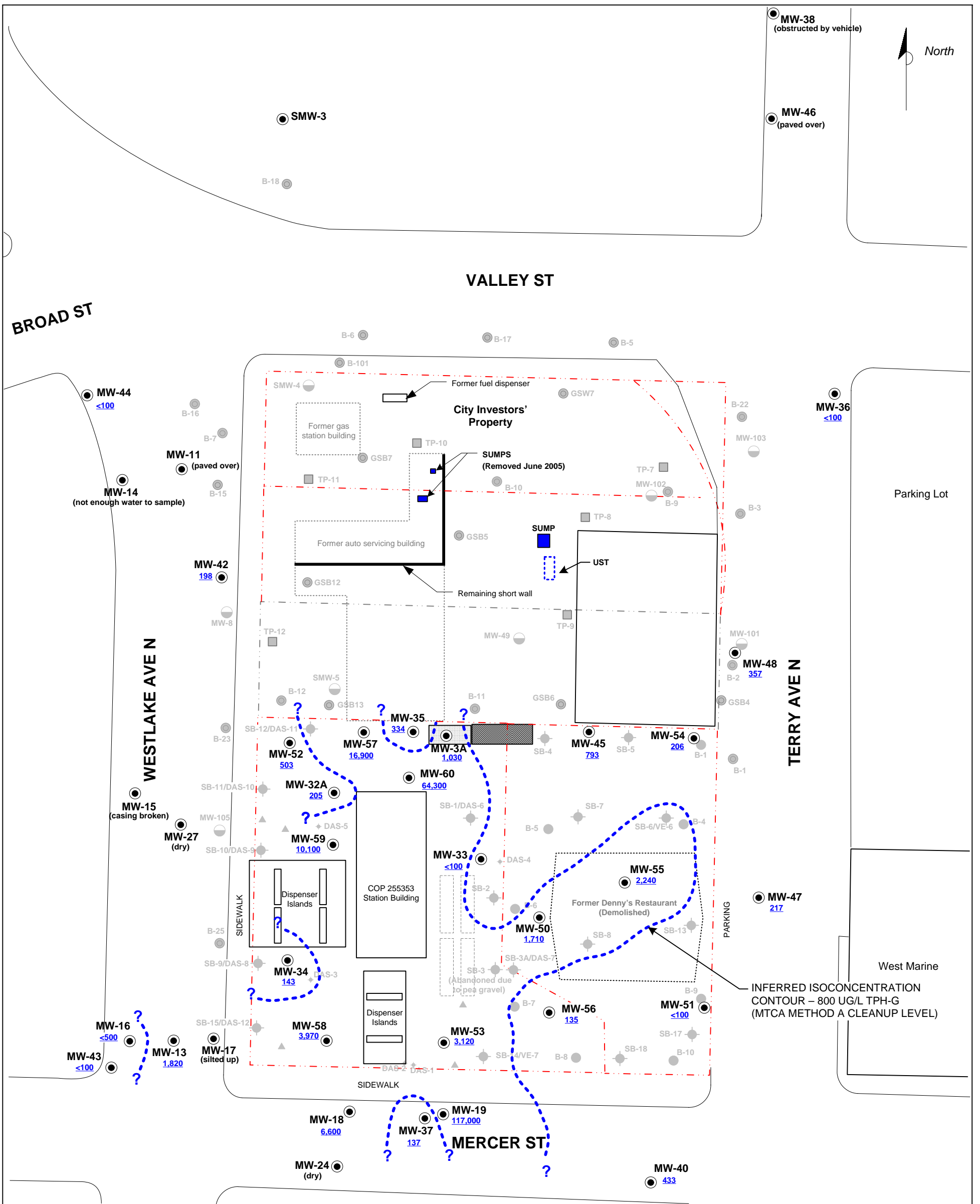
**FIGURE 6**

**TPH-O CONCENTRATIONS IN SOIL  
JUNE 2005 ON-SITE ASSESSMENT**

**CONOCOPHILLIPS SITE NO. 255353  
600 WESTLAKE AVENUE NORTH  
SEATTLE, WASHINGTON**

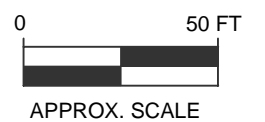
|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |





**LEGEND**

- MW-3 ● COP GROUNDWATER MONITORING WELL
- 137 ● TPH-G CONCENTRATION IN GROUNDWATER (ug/l) – JUNE 2005
- MW-105 ● CITY INVESTORS' GROUNDWATER MONITORING WELL
- GSB4 ● SOIL BORING INSTALLED BY GARY STRUTHERS & ASSOCIATES
- TP-8 ■ TEST PIT INSTALLED BY HART CROWSER
- B6 ● SOIL BORING INSTALLED BY HART CROWSER
- B15 ● SOIL BORING INSTALLED BY URBAN REDEVELOPMENT
- ▲ SOIL VAPOR EXTRACTION WELL LOCATION
- DAS-4 ◆ AIR SPARGING WELL LOCATION
- SB-4 ● SOIL BORING LOCATION - JUNE 2005
- SB-1/DAS-6 ● POTENTIAL AS WELL LOCATION - JUNE 2005
- SB-6/VE-6 ● POTENTIAL SVE WELL LOCATION - JUNE 2005



BASED ON MAPS PROVIDED BY GEOENGINEERS, INC. AND ENVIRONMENTAL RESOLUTIONS, INC.

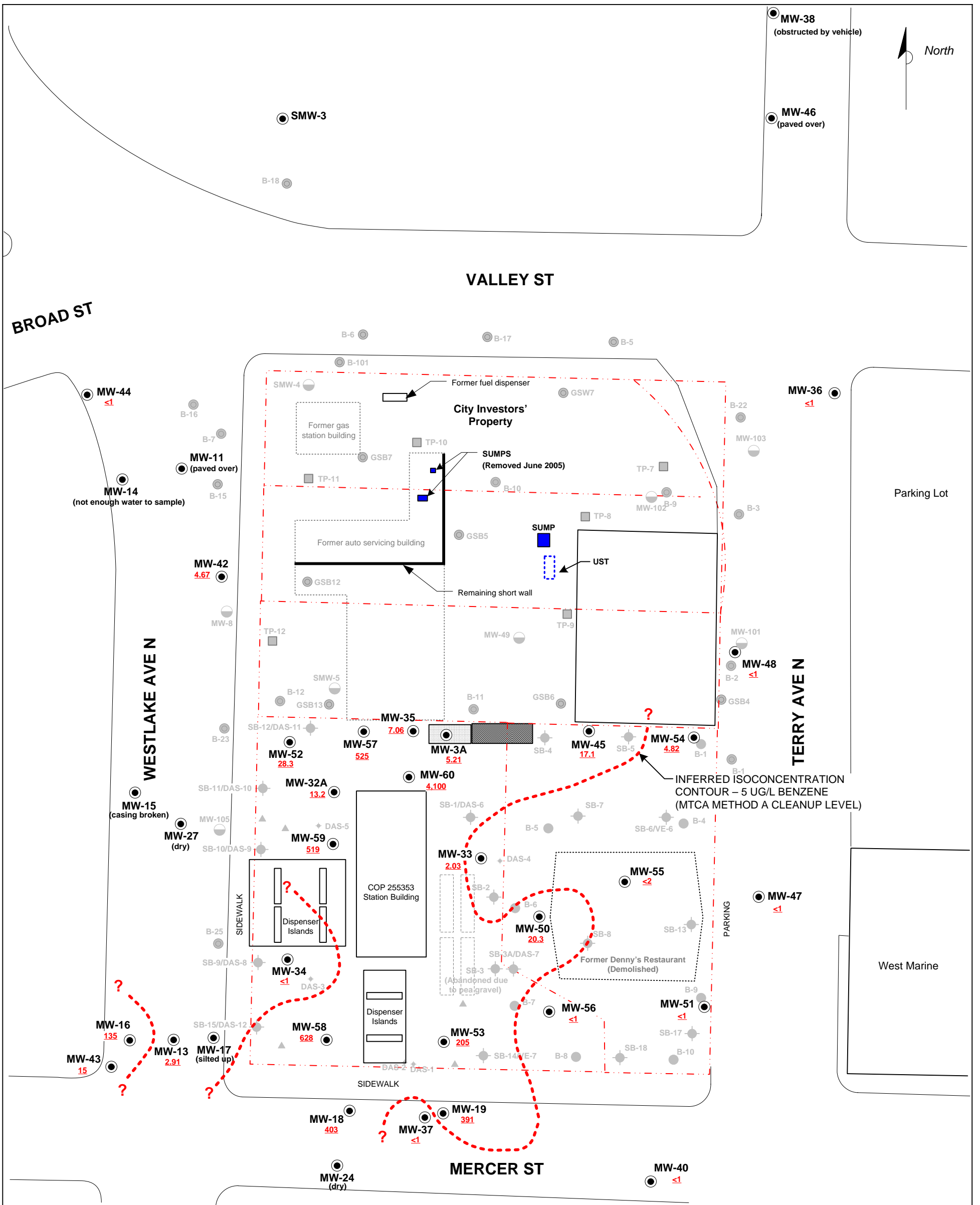
**FIGURE 7**  
**TPH-G CONCENTRATION IN GROUNDWATER, JUNE 2005**

**CONOCOPHILLIPS SITE NO. 255353**  
**600 WESTLAKE AVENUE NORTH**  
**SEATTLE, WASHINGTON**

|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |

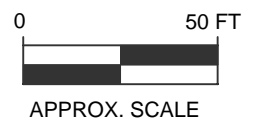
**Delta**  
Environmental  
Consultants, Inc.





**LEGEND**

- MW-3 ● COP GROUNDWATER MONITORING WELL
- 403 BENZENE CONCENTRATION IN GROUNDWATER (ug/l) – JUNE 2005
- MW-105 ● CITY INVESTORS' GROUNDWATER MONITORING WELL
- GSB4 ● SOIL BORING INSTALLED BY GARY STRUTHERS & ASSOCIATES
- TP-8 ■ TEST PIT INSTALLED BY HART CROWSER
- B6 ● SOIL BORING INSTALLED BY HART CROWSER
- B15 ● SOIL BORING INSTALLED BY URBAN REDEVELOPMENT
- ▲ SOIL VAPOR EXTRACTION WELL LOCATION
- DAS-4 ◆ AIR SPARGING WELL LOCATION
- SB-4 ● SOIL BORING LOCATION - JUNE 2005
- SB-1/DAS-6 ● POTENTIAL AS WELL LOCATION - JUNE 2005
- SB-6/VE-6 ● POTENTIAL SVE WELL LOCATION - JUNE 2005



BASED ON MAPS PROVIDED BY GEOENGINEERS, INC. AND ENVIRONMENTAL RESOLUTIONS, INC.

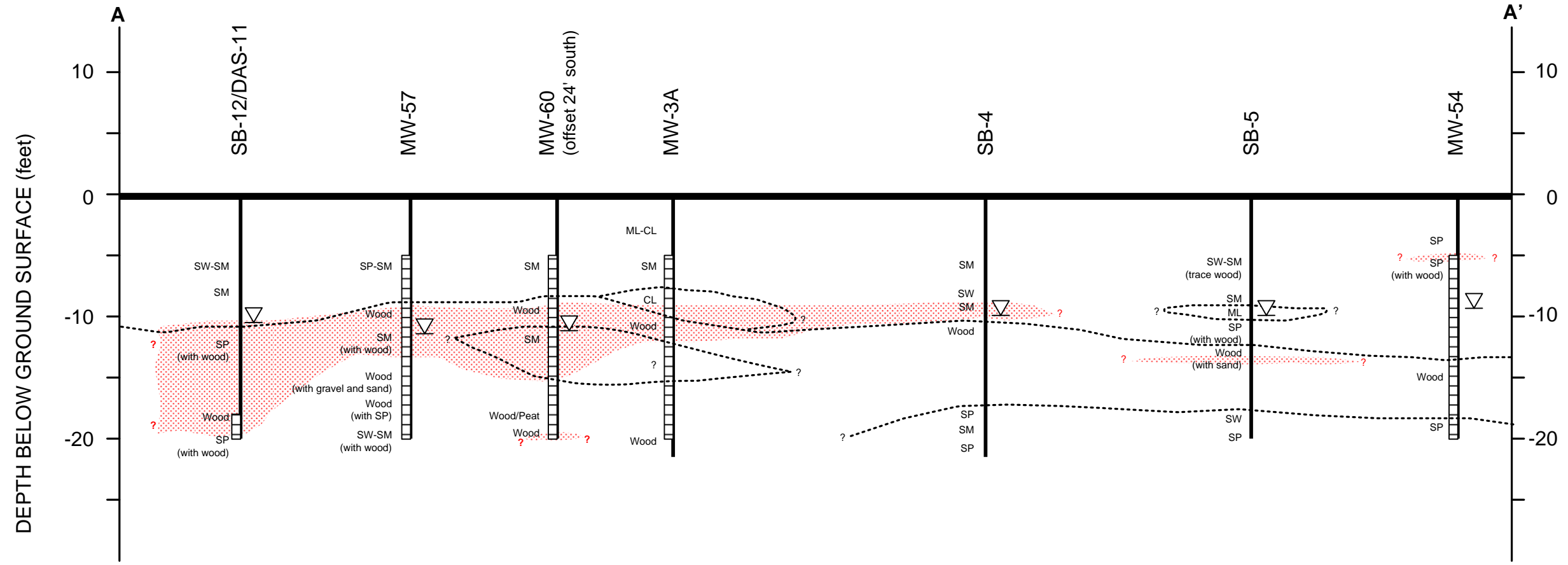
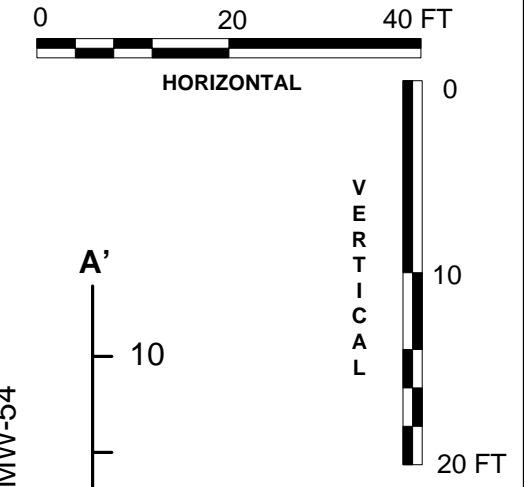
**FIGURE 8**  
**BENZENE CONCENTRATION IN GROUNDWATER, JUNE 2005**

**CONOCOPHILLIPS SITE NO. 255353**  
**600 WESTLAKE AVENUE NORTH**  
**SEATTLE, WASHINGTON**

|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |

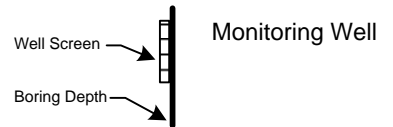
**Delta**  
Environmental  
Consultants, Inc.

**APPROXIMATE SCALE**



**LEGEND**

- CL Clay
- ML Silty Sand or Sandy Silt, with or without Gravel
- SW Well Graded Sand, with or without Gravel
- SP Poorly Graded Sand, with or without Gravel
- ▽ Approximate First Encountered Groundwater Level



Interpolated extent of soil with TPH-G concentrations that exceed MTCA Method A cleanup levels

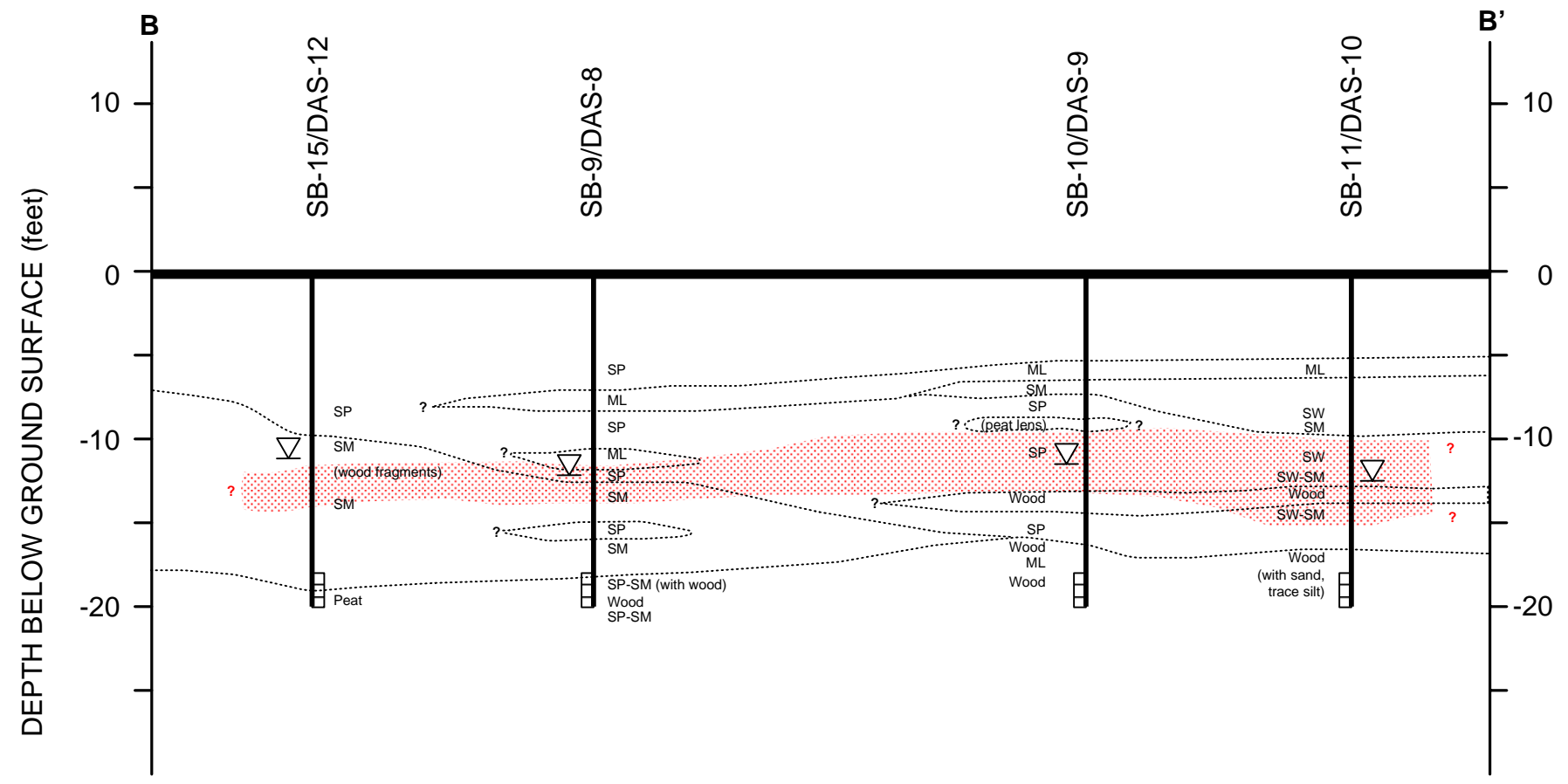
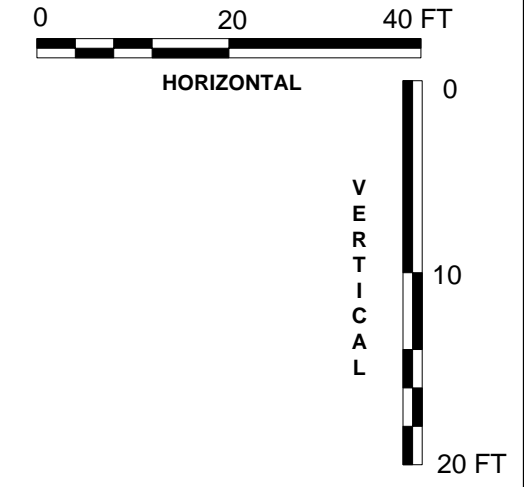
**FIGURE 9**  
**GENERALIZED GEOLOGIC CROSS-SECTION A-A'**

**CONOCOPHILLIPS SITE NO. 255353**  
**600 WESTLAKE AVENUE NORTH**  
**SEATTLE, WASHINGTON**

|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |

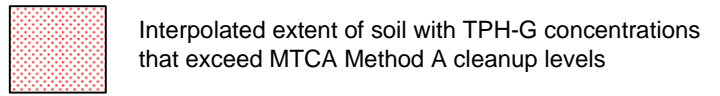
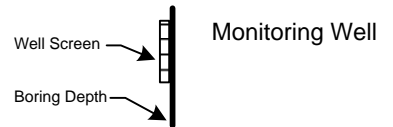


**APPROXIMATE SCALE**



**LEGEND**

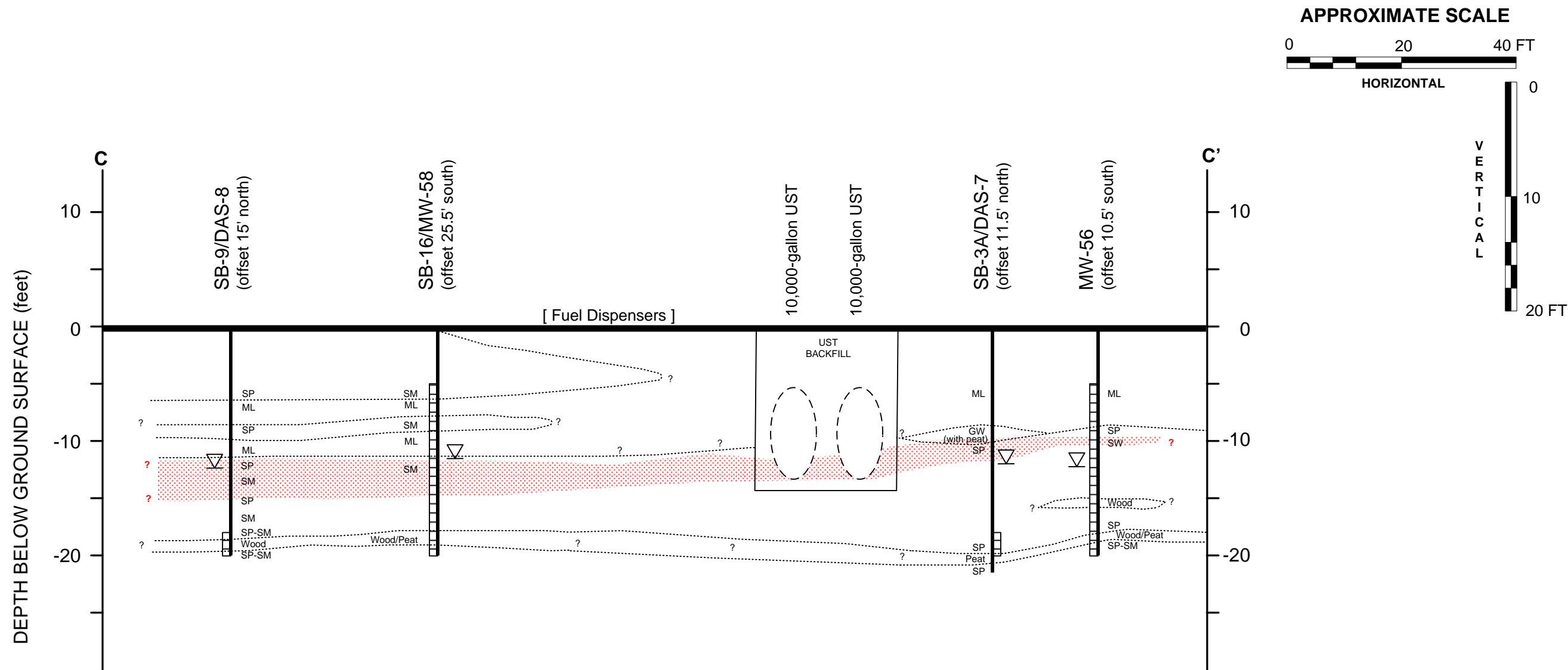
- CL Clay
- ML Silty Sand or Sandy Silt, with or without Gravel
- SW Well Graded Sand, with or without Gravel
- SP Poorly Graded Sand, with or without Gravel
- ▽ Approximate First Encountered Groundwater Level



**FIGURE 10**  
**GENERALIZED GEOLOGIC CROSS-SECTION B-B'**  
**CONOCOPHILLIPS SITE NO. 255353**  
**600 WESTLAKE AVENUE NORTH**  
**SEATTLE, WASHINGTON**

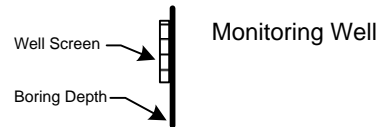
|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |





**LEGEND**

- CL Clay
- ML Silty Sand or Sandy Silt, with or without Gravel
- SW Well Graded Sand, with or without Gravel
- SP Poorly Graded Sand, with or without Gravel
- GW Well Graded Gravel, with or without Sand
- ▽ Approximate First Encountered Groundwater Level



Interpolated extent of soil with TPH-G concentrations that exceed MTCA Method A cleanup levels

**FIGURE 11**  
**GENERALIZED GEOLOGIC CROSS-SECTION C-C'**  
**CONOCOPHILLIPS SITE NO. 255353**  
**600 WESTLAKE AVENUE NORTH**  
**SEATTLE, WASHINGTON**

|                             |                          |
|-----------------------------|--------------------------|
| PROJECT NO.<br>WA255-3510-1 | DRAWN BY<br>TS 8/4/05    |
| FILE NO.<br>WA255-3510-1    | PREPARED BY<br>TS 8/4/05 |
| REVISION NO.<br>0           | REVIEWED BY<br>EL        |



## **APPENDIX A**

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### **BORING LOGS AND WELL CONSTRUCTION DETAILS**

# Delta

Environmental Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-1/DAS-6       |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/7/2005                    | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |
| SLOT SIZE: 0.020         | WELL DEPTH: 20'                           |                                  |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Static Water Level  | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|---------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill        | Casing |                     |                  |                   |                        |              |                          |           |  |
| Conc.           |        |                     |                  |                   |                        | 1            |                          |           | Asphalt (6")   |
|                 |        |                     |                  |                   |                        | 2            |                          |           | Air-knifed/vac-cleared to 5' on 6/7/05<br>(Sand with gravel fill material, compacted)    |
|                 |        |                     |                  |                   |                        | 3            |                          |           |  |
|                 |        |                     |                  |                   |                        | 4            |                          |           |  |
|                 |        |                     |                  |                   | 16                     | 5            |                          |           |  |
|                 |        |                     | Moist            | 0.2               | 19                     | 6            |                          | SM        | Silty SAND with Gravel; grey, 70% medium to coarse sand, 15% silt, 15% gravel            |
|                 |        |                     |                  |                   | 23                     | 7            |                          |           |  |
|                 |        |                     |                  |                   | 4                      | 8            |                          |           | (grades less gravel, brown-gray in color)  |
|                 |        |                     | Moist            | 59.1              | 7                      | 9            |                          |           |  |
|                 |        |                     |                  |                   | 3                      | 10           |                          |           |  |
|                 |        |                     |                  |                   | 4                      | 11           |                          | ML        | SILT with Sand; grey, 70% silt, 25% sand, 5% gravel, moderate plasticity, sheen          |
|                 |        |                     | Moist            | 496               | 1                      | 12           |                          | SP-SM     | Poorly Graded SAND with Silt and Gravel; trace brick fragments and glass shards          |
|                 |        | ▽<br>9:30<br>6/7/05 |                  |                   | 1                      | 13           |                          |           | (fibrous wood debris at 13')   |
|                 |        |                     | Wet              | 9.1               | 1                      | 14           |                          | SM        | Silty SAND; grey, 60% well-graded sand, 30% clayey silt, 10% gravel, moderate plasticity |
|                 |        |                     | Wet              | 3.5               | 2                      | 15           |                          |           |  |
|                 |        |                     | Moist            |                   | 1                      | 16           |                          |           |  |
|                 |        |                     |                  |                   | 8                      | 17           |                          | WDFill    | Wood debris; dark brown  |
|                 |        |                     |                  |                   | 6                      | 18           |                          |           | (grades finer (sawdust), light brown)  |
|                 |        |                     | Sat              | 16.5              | 4                      | 19           |                          |           |  |
|                 |        |                     |                  |                   | 3                      | 20           |                          |           |  |
|                 |        |                     | Sat              | 0.9               | 3                      | 21           |                          |           |  |
|                 |        |                     |                  |                   | 5                      | 22           |                          |           |  |
|                 |        |                     | Sat              | 3.3               | 2                      |              |                          |           |  |
|                 |        |                     |                  |                   | 2                      |              |                          |           |  |
|                 |        |                     | Sat              | 1.7               | 3                      |              |                          |           |  |
|                 |        |                     |                  |                   | 4                      |              |                          |           |  |
|                 |        |                     |                  |                   | 6                      |              |                          |           |  |
|                 |        |                     |                  |                   |                        |              |                          |           | <b>BOTTOM OF HOLE @ 20'</b>  |

# Delta

Environmental  
Consultants, Inc.

|                          |   |                                  |         |
|--------------------------|---|----------------------------------|---------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-2             |         |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |         |
| DRILLER: CDI             | DATE DRILLED: 6/8/2005                    | Location Map<br><br>See Figure 2 |         |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |         |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |         |
| CASING TYPE: NA          | WELL DIAMETER: NA                         |                                  |         |
| SLOT SIZE: NA            | WELL DEPTH: NA                            |                                  |         |
| GRAVEL PACK: NA          | CASING STICKUP: NA                        |                                  |         |
| ELEVATION                |   | NORTHING                         | EASTING |

| Well Completion |        | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery | Interval | Soil Type | LITHOLOGY / DESCRIPTION   |
|-----------------|--------|------------------|-------------------|------------------------|--------------|-----------------|----------|-----------|---|
| Backfill        | Casing |                  |                   |                        |              |                 |          |           |   |
| Conc.           |        |                  |                   |                        | 1            |                 |          |           | Asphalt (4")  |
|                 |        |                  |                   |                        | 2            |                 |          | Conc.     | Air-knifed/vac-cleared to 20" on 6/6/05.<br>Encountered concrete at 20"; cored on 6/7/05.                   |
|                 |        |                  |                   |                        | 3            |                 |          |           | Air-knifed/vac-cleared to 5'.<br>(Compact sand and gravel fill)   |
|                 |        |                  |                   |                        | 4            |                 |          |           |   |
|                 |        | Moist            | 0.0               | 2                      | 5            |                 |          | ML        | SILT; brown-grey, 95% silt, 5% fine sand, firm, non-plastic   |
|                 |        |                  |                   | 2                      | 6            |                 |          |           |   |
|                 |        | Moist            | 0.0               | 4                      | 7            |                 |          |           | (grades more brown in color with trace gravel,<br>90% silt, 5% fine sand, 5% gravel)                        |
|                 |        |                  |                   | 4                      | 8            |                 |          |           |   |
|                 |        | Moist            | 0.1               | 10                     | 9            |                 |          | SP-SM     | Poorly Graded SAND with Silt; brown-grey; 85% fine to medium sand, 10% silt, 5% gravel                      |
|                 |        |                  | 0.5               | 4                      | 10           |                 |          |           |   |
|                 |        | Wet              |                   | 4                      | 11           |                 |          |           | (grades more gravel (10%))<br>(Urban Redevelopment's PID reads 8.5 ppm)                                     |
|                 |        | Sat              | 0.1               | 3                      | 12           |                 |          |           |   |
|                 |        |                  |                   | 4                      | 13           |                 |          |           | (Driller missed sample at 12.5 ft to 14 ft)   |
|                 |        |                  |                   | -                      | 14           |                 |          |           |   |
|                 |        | Wet              |                   | 1                      | 15           |                 |          |           |   |
|                 |        |                  |                   | 2                      | 16           |                 |          |           |   |
|                 |        |                  |                   | 5                      | 17           |                 |          | WDFill    | Wood debris; coarse, approx. 2" to 3" fragments   |
|                 |        | Sat              | 3.2               | 100/2"                 | 18           |                 |          |           |   |
|                 |        |                  | 0.0               | 36                     | 19           |                 |          |           | (Shoe sample-direct PID screen, could not remove from shoe)<br>(Wood debris grades to sawdust, brown, soft) |
|                 |        |                  |                   | 15                     | 20           |                 |          | SP        | Poorly Graded SAND; grey, 100% fine sand  |
|                 |        | Sat              | 0.9               | 3                      | 21           |                 |          |           |   |
|                 |        |                  |                   | 12                     | 22           |                 |          |           |   |
|                 |        |                  |                   | 3                      |              |                 |          |           | <b>BOTTOM OF HOLE @ 20'</b>   |
|                 |        |                  |                   | 4                      |              |                 |          |           |   |
|                 |        |                  |                   | 8                      |              |                 |          |           |   |

Static Water Level  
13:25  
6/8/05

BENTONITE

# Delta

**Environmental  
Consultants, Inc.**

PROJECT NO: WA255-3510-1      CLIENT: ConocoPhillips  
 LOGGED BY: C. Fleming      LOCATION: 600 Westlake Ave N, Seattle, WA  
 DRILLER: CDI      DATE DRILLED: 6/8/2005  
 DRILLING METHOD: HSA      HOLE DIAMETER: 8"  
 SAMPLING METHOD: SS      HOLE DEPTH: 21.5'  
 CASING TYPE: PVC      WELL DIAMETER: 2"  
 SLOT SIZE: 0.020      WELL DEPTH: 20'  
 GRAVEL PACK: 2-12      CASING STICKUP: Flush

BORING/WELL NO: SB-3A/DAS-7  
 PAGE 1 OF 1

Location Map

See Figure 2

ELEVATION

NORTHING

EASTING

| Well Completion | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill Casing |                    |                  |                   |                        |              |                          |           | Asphalt (4")   |
|                 |                    |                  |                   |                        | 1            |                          |           | Air-knifed/vac-cleared to 5'   |
|                 |                    |                  |                   |                        | 2            |                          |           |  |
|                 |                    |                  |                   |                        | 3            |                          |           |  |
|                 |                    |                  |                   |                        | 4            |                          |           |  |
|                 |                    |                  |                   |                        | 5            |                          |           |  |
|                 |                    | Damp             | 5.0               | 3                      | 5            |                          | ML        | SILT; grey, 95% silt, 5% trace sand, firm, non-plastic                                 |
|                 |                    |                  |                   | 3                      | 6            |                          |           |  |
|                 |                    |                  |                   | 4                      | 6            |                          |           |  |
|                 |                    |                  |                   | 4                      | 7            |                          |           |  |
|                 |                    | Damp             | 2.0               | 6                      | 7            |                          |           | (grades green-grey in color)   |
|                 |                    |                  |                   | 4                      | 8            |                          |           |  |
|                 |                    |                  |                   | 5                      | 8            |                          |           |  |
|                 |                    | Damp             | 17                | 7                      | 9            |                          |           |  |
|                 |                    | Wet              |                   | 8                      | 8            |                          |           | Well Graded GRAVEL; brown, with peat and sand, wet                                     |
|                 |                    |                  |                   | 8                      | 10           |                          |           |  |
|                 |                    | Damp             | 338               | 7                      | 11           |                          | SP        | Poorly Graded SAND; green-grey, with light brown sand lenses, 100% fine to medium sand |
|                 |                    |                  |                   | 4                      | 11           |                          |           | (grades grey medium sand, visible sheen)   |
|                 |                    | Wet              | 32                | 5                      | 12           |                          |           | (grades trace coarse gravel (subrounded))  |
|                 |                    |                  |                   | 22                     | 13           |                          |           | (as above, grades more fine gravel)  |
|                 |                    | Wet              | 9                 | 50/6"                  | 13           |                          |           |  |
|                 |                    |                  |                   | 100/3"                 | 14           |                          |           | (no recovery)  |
|                 |                    |                  |                   | 70/6"                  | 15           |                          |           |  |
|                 |                    |                  |                   | 15                     | 16           |                          |           |  |
|                 |                    |                  |                   | 50/4"                  | 17           |                          |           |  |
|                 |                    |                  |                   | 44                     | 18           |                          |           |  |
|                 |                    |                  |                   | 13                     | 19           |                          |           |  |
|                 |                    |                  |                   | 15                     | 20           |                          | SP        | Poorly Graded SAND; grey   |
|                 |                    |                  |                   | 4                      | 20           |                          |           | PEAT; dark brown (2" thickness)  |
|                 |                    |                  |                   | 6                      | 21           |                          | SP        | Poorly Graded SAND; grey   |
|                 |                    |                  |                   | 7                      | 21           |                          |           |  |
|                 |                    |                  |                   |                        | 22           |                          |           |  |
|                 |                    |                  |                   |                        |              |                          |           | <b>BOTTOM OF HOLE @ 21.5'</b>  |

▽  
15:05  
6/8/05

Conc.

BENTONITE

SAND



# Delta

**Environmental  
Consultants, Inc.**

|                          |   |   |
|--------------------------|---|---|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-4                    |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                             |
| DRILLER: CDI             | DATE DRILLED: 6/7/2005                    | Location Map<br><br><b>See Figure 2</b> |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |   |
| SAMPLING METHOD: SS      | HOLE DEPTH: 21.5'                         |   |
| CASING TYPE: NA          | WELL DIAMETER: NA                         |   |
| SLOT SIZE: NA            | WELL DEPTH: NA                            |   |
| GRAVEL PACK: NA          | CASING STICKUP: NA                        |   |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery | Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|------------------|-------------------|------------------------|--------------|-----------------|----------|-----------|--|
| Backfill        | Casing |                  |                   |                        |              |                 |          |           |  |
| Conc.           |        |                  |                   |                        | 1            |                 |          |           | Asphalt (4")   |
|                 |        |                  |                   |                        | 2            |                 |          |           | Air-knifed/vac-cleared to 5'   |
|                 |        |                  |                   |                        | 3            |                 |          |           |  |
|                 |        |                  |                   |                        | 4            |                 |          |           |  |
|                 |        |                  |                   |                        | 5            |                 |          | SM        | Silty SAND; brown, 60% well-graded sand, 25% silt, 10% gravel, 5% wood debris, slight plasticity |
|                 |        | Moist            | 0.6               | 3                      | 6            |                 |          |           |  |
|                 |        |                  |                   | 3                      | 7            |                 |          |           |  |
|                 |        | Moist            | 3.5               | 2                      | 8            |                 |          | SW        | Well Graded SAND; black, with sawdust, 60% sand, 30% sawdust, 10% gravel-subrounded              |
|                 |        |                  |                   | 1                      | 9            |                 |          | SM        | Silty SAND; brown-grey, 50% well graded sand, 30% silt, 10% gravel, 10% clay fines               |
|                 |        | Moist            | 103.8             | 1                      | 10           |                 |          |           |  |
|                 |        | Wet              |                   | 1                      | 11           |                 |          | WDFill    | Wood debris (sawdust); black, with trace sand  |
|                 |        | Sat              | 11.7              | 1                      | 12           |                 |          |           |  |
|                 |        |                  |                   | 2                      | 13           |                 |          |           | (grades coarser wood debris)   |
|                 |        | Sat              | 3.5               | 2                      | 14           |                 |          |           | (trace reddish-brown silt at 13.8')  |
|                 |        |                  |                   | 3                      | 15           |                 |          |           |  |
|                 |        | Sat              | 0.6               | 2                      | 16           |                 |          |           | (grades finer wood debris (sawdust), reddish-brown at 15.3')                                     |
|                 |        |                  |                   | 7                      | 17           |                 |          |           |  |
|                 |        | Sat              | 0.7               | 8                      | 18           |                 |          | SP        | Poorly Graded SAND with Gravel; grey, 85% medium sand, 15% gravel, loose                         |
|                 |        |                  |                   | 3                      | 19           |                 |          | SM        | Well Graded SAND; grey, with clayey silt (grades less clay)                                      |
|                 |        | Sat              | 0.3               | 4                      | 20           |                 |          | SP        | Poorly Graded SAND; gray, 80% fine sand, 20% medium sand   |
|                 |        |                  |                   | 2                      | 21           |                 |          |           |  |
|                 |        | Sat              | 0.6               | 13                     | 22           |                 |          |           |  |
|                 |        |                  |                   | 8                      |              |                 |          |           |  |
|                 |        |                  |                   | 9                      |              |                 |          |           |  |
|                 |        |                  | 0.5               | 11                     |              |                 |          |           |  |
|                 |        |                  |                   |                        |              |                 |          |           | <b>BOTTOM OF HOLE @ 21.5'</b>  |

▽  
13:50  
6/7/05

BENTONITE

# Delta

Environmental  
Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-5             |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/7/2005                    | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: NA          | WELL DIAMETER: NA                         |                                  |
| SLOT SIZE: NA            | WELL DEPTH: NA                            |                                  |
| GRAVEL PACK: NA          | CASING STICKUP: NA                        |                                  |

ELEVATION

NORTHING

EASTING

| Well Completion |        | Static Water Level   | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|----------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill        | Casing |                      |                  |                   |                        |              |                          |           |  |
| Conc.           |        |                      |                  |                   |                        | 1            |                          |           | Asphalt (4")   |
|                 |        |                      |                  |                   |                        | 2            |                          |           | Air-knifed/vac-cleared to 5'   |
|                 |        |                      |                  |                   |                        | 3            |                          |           |  |
|                 |        |                      |                  |                   |                        | 4            |                          |           |  |
|                 |        |                      | Moist            | 9.6               | 3                      | 5            |                          | SW-SM     | Well Graded SAND with Silt; brown, 70% well graded sand, 25% silt, 5% wood debris, non-plastic       |
|                 |        |                      |                  |                   | 4                      | 6            |                          |           |  |
|                 |        |                      |                  |                   | 3                      | 7            |                          | SM        | Silty SAND with Gravel; grey, 60% well graded sand, 20% gravel, 20% silt                             |
|                 |        |                      | Moist            | 23.3              | 4                      | 8            |                          |           |  |
|                 |        |                      |                  | 12.4              | 2                      | 9            |                          |           | SILT; grey, with trace brick fragments, hard   |
|                 |        |                      |                  |                   | 3                      | 10           |                          | ML        | (grades more sand)   |
|                 |        | ▽<br>13:50<br>6/7/05 | Sat              | 0.3               | 5                      | 11           |                          | SP        | Poorly Graded SAND with wood debris  |
|                 |        |                      |                  |                   | 2                      | 12           |                          |           |  |
|                 |        |                      | Sat              | 0.6               | 2                      | 13           |                          | WDFill    | Wood debris (sawdust)<br>(grades finer to coarser in texture)<br>(grades darker to lighter in color) |
|                 |        |                      |                  |                   | 3                      | 14           |                          |           |  |
|                 |        |                      | Wet              | 2.7               | 21                     | 15           |                          |           | (as above, with 15% fine sand, 5% silt)  |
|                 |        |                      |                  |                   | 28                     | 16           |                          |           |  |
|                 |        |                      | Sat              | 2.7               | 8                      | 17           |                          |           |  |
|                 |        |                      |                  |                   | 4                      | 18           |                          |           |  |
|                 |        |                      |                  |                   | 5                      | 19           |                          | SW        | Well Graded SAND; grey, with trace brown silt, 95% well-graded sand, 5% silt                         |
|                 |        |                      | Sat              | 3.8               | 7                      | 20           |                          | SP        | Poorly Graded SAND; grey   |
|                 |        |                      |                  |                   | 7                      | 21           |                          |           |  |
|                 |        |                      | Sat              | 18.2              | 9                      | 22           |                          |           |  |
|                 |        |                      |                  |                   | 10                     |              |                          |           |  |
|                 |        |                      | Sat              | 0.6               | 10                     |              |                          |           |  |
|                 |        |                      |                  |                   | 18                     |              |                          |           |  |
|                 |        |                      |                  |                   | 12                     |              |                          |           |  |
|                 |        |                      |                  |                   |                        |              |                          |           | BOTTOM OF HOLE @ 20'   |

# Delta

Environmental  
Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-6/VE-6        |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/8/2005                    | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 15.5'                         |                                  |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |
| SLOT SIZE: 0.020         | WELL DEPTH: 13'                           |                                  |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery | Interval | Soil Type | LITHOLOGY / DESCRIPTION   |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|-----------------|----------|-----------|---|
| Backfill        | Casing |                    |                  |                   |                        |              |                 |          |           |   |
| Conc.           |        |                    |                  |                   |                        | 1            |                 |          |           | Asphalt (4")  |
|                 |        |                    |                  |                   |                        | 2            |                 |          |           | Air-knifed/vac-cleared to 5' on 6/7/05  |
| BENTONITE       |        |                    |                  |                   |                        | 3            |                 |          |           |   |
|                 |        |                    |                  |                   |                        | 4            |                 |          |           |   |
|                 |        |                    |                  |                   | 1                      | 5            |                 |          |           |   |
|                 |        |                    | Moist Wet        | 4.0               | 2                      | 6            |                 |          | SM        | Silty SAND; brown, 80% sand, 20% silt   |
|                 |        |                    |                  |                   | 3                      | 7            |                 |          |           |   |
|                 |        |                    | Moist            | 5.2               | 4                      | 8            |                 |          | SP        | (~2" thick wood debris at 7', coarse)<br>Poorly Graded SAND; brown, 100% medium sand  |
|                 |        |                    | Moist            | 198               | 5                      | 9            |                 |          | SM        | Silty SAND; brown, with trace gravel, 60% fine sand, 35% silt, 5% coarse gravel, mild sheen<br>(grades grey in color at 9') |
|                 |        |                    |                  |                   | 7                      | 10           |                 |          | SP        | Poorly Graded SAND; grey, 95% medium sand, 5% silt  |
|                 |        | 8:00<br>6/8/05     | Moist Sat        | 11.0              | 3                      | 11           |                 |          | SM        | Silty SAND; brown-grey, soft  |
|                 |        |                    | Sat              | 0.8               | 1                      | 12           |                 |          |           |   |
|                 |        |                    |                  |                   | 2                      | 13           |                 |          |           |   |
|                 |        |                    |                  |                   | 8                      | 14           |                 |          |           |   |
|                 |        |                    |                  |                   | 4                      | 15           |                 |          |           |   |
|                 |        |                    | Moist            | 0.2               | 5                      | 16           |                 |          | WDFill    | Wood debris   |
|                 |        |                    |                  |                   | 2                      | 17           |                 |          |           |   |
|                 |        |                    |                  |                   | 6                      | 18           |                 |          |           |   |
|                 |        |                    |                  |                   | 6                      | 19           |                 |          |           |   |
|                 |        |                    |                  |                   | 6                      | 20           |                 |          |           |   |
|                 |        |                    |                  |                   | 6                      | 21           |                 |          |           |   |
|                 |        |                    |                  |                   | 6                      | 22           |                 |          |           |   |
|                 |        |                    |                  |                   |                        |              |                 |          |           | <b>BOTTOM OF HOLE @ 15.5'</b>   |

# Delta

Environmental  
Consultants, Inc.

|                  |              |                 |                                 |                                  |        |
|------------------|--------------|-----------------|---------------------------------|----------------------------------|--------|
| PROJECT NO:      | WA255-3510-1 | CLIENT:         | ConocoPhillips                  | BORING/WELL NO:                  | SB-7   |
| LOGGED BY:       | C. Fleming   | LOCATION:       | 600 Westlake Ave N, Seattle, WA | PAGE                             | 1 OF 1 |
| DRILLER:         | CDI          | DATE DRILLED:   | 6/8/2005                        | Location Map<br><br>See Figure 2 |        |
| DRILLING METHOD: | HSA          | HOLE DIAMETER:  | 8"                              |                                  |        |
| SAMPLING METHOD: | SS           | HOLE DEPTH:     | 20'                             |                                  |        |
| CASING TYPE:     | NA           | WELL DIAMETER:  | NA                              |                                  |        |
| SLOT SIZE:       | NA           | WELL DEPTH:     | NA                              |                                  |        |
| GRAVEL PACK:     | NA           | CASING STICKUP: | NA                              |                                  |        |

ELEVATION

NORTHING

EASTING

| Well Completion |        | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill        | Casing |                  |                   |                        |              |                          |           |  |
| Conc.           |        |                  |                   |                        |              |                          |           | Asphalt (4")   |
|                 |        |                  |                   |                        | 1            |                          |           | Air-knifed/vac-cleared to 5'   |
|                 |        |                  |                   |                        | 2            |                          |           |  |
|                 |        |                  |                   |                        | 3            |                          |           |  |
|                 |        |                  |                   |                        | 4            |                          |           |  |
|                 |        | Moist            | 22.1              | 2                      | 5            |                          |           |  |
|                 |        |                  |                   | 2                      | 6            | SM                       |           | Silty SAND; grey with trace roots, 60% fine to medium sand, 40% silt |
|                 |        | Moist            | 29.4              | 3                      | 7            |                          |           | (grades finer sand with trace coarse gravel-subrounded)              |
|                 |        |                  |                   | 3                      | 8            |                          |           |  |
|                 |        | Moist            | 5.3               | 2                      | 9            |                          |           |  |
|                 |        |                  |                   | 3                      | 10           |                          |           |  |
|                 |        | Moist            | 0.1               | 1                      | 11           |                          |           |  |
|                 |        |                  |                   | 3                      | 12           |                          |           |  |
|                 |        | Moist Sat        | 1.0               | 2                      | 13           | WDFill                   |           | Wood debris  |
|                 |        |                  |                   | 1                      | 14           |                          |           |  |
|                 |        |                  | 0.1               | 2                      | 15           |                          |           | (as above)   |
|                 |        |                  |                   | 4                      | 16           |                          |           | (as above, grades more sand (30%))                                   |
|                 |        |                  |                   | 8                      | 17           |                          |           |  |
|                 |        | Wet              | 0.1               | 10                     | 18           |                          |           |  |
|                 |        |                  |                   | 7                      | 19           | SP                       |           | Poorly Graded SAND; grey, 100% fine sand                             |
|                 |        | Sat              | 0.0               | 21                     | 20           | ML                       |           | SILT; clayey with 10% fine sand, soft, wet                           |
|                 |        |                  |                   | 11                     | 21           |                          |           | BOTTOM OF HOLE @ 20'   |
|                 |        | Sat              | 0.0               | 3                      | 22           |                          |           |  |
|                 |        |                  |                   | 6                      |              |                          |           |  |
|                 |        |                  |                   | 6                      |              |                          |           |  |
|                 |        | Sat              | 0.0               | 6                      |              |                          |           |  |
|                 |        |                  |                   | 2                      |              |                          |           |  |
|                 |        |                  |                   | 3                      |              |                          |           |  |

BENTONITE

▽  
10:00  
6/8/05

# Delta

Environmental Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-8             |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/9/2005                    | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: NA          | WELL DIAMETER: NA                         |                                  |
| SLOT SIZE: NA            | WELL DEPTH: NA                            |                                  |
| GRAVEL PACK: NA          | CASING STICKUP: NA                        |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion    | Static Water Level  | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|--------------------|---------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill<br>Casing |                     |                  |                   |                        |              |                          |           | Asphalt (4")   |
|                    |                     |                  |                   |                        | 1            |                          |           | Air-knifed/vac-cleared to 5'   |
|                    |                     |                  |                   |                        | 2            |                          |           |  |
|                    |                     |                  |                   |                        | 3            |                          |           |  |
|                    |                     |                  |                   |                        | 4            |                          |           |  |
|                    |                     |                  |                   |                        | 5            |                          |           |  |
|                    |                     | Damp             | 5.9               | 2                      | 5            |                          | ML        | SILT; grey, 95% silt, 5% fine sand, firm, non-plastic  |
|                    |                     |                  |                   | 4                      | 6            |                          |           |  |
|                    |                     | Damp             | 7.2               | 5                      | 7            |                          |           | (grades trace cobble)  |
|                    |                     |                  |                   | 5                      | 8            |                          |           |  |
|                    |                     | Moist            | 2.1               | 6                      | 9            |                          |           | (grades 10% medium sand, slight plasticity)  |
|                    |                     |                  |                   | 6                      | 10           |                          |           |  |
|                    |                     | Moist            | 3.7               | 12                     | 10           |                          | SP-SM     | Poorly Graded SAND with silt; grey, 80% medium sand, 10% silt, 10% well graded gravel          |
|                    |                     |                  |                   | 10                     | 11           |                          |           |  |
|                    | ▽<br>7:50<br>6/9/05 | Wet              |                   | 10                     | 11           |                          |           |  |
|                    |                     |                  |                   | 3                      | 12           |                          |           |  |
|                    |                     |                  |                   | 5                      | 12           |                          | SP        | Poorly Graded SAND with gravel; grey, 80% medium to coarse sand, 20% well graded gravel, loose |
|                    |                     |                  |                   | 6                      | 13           |                          |           |  |
|                    |                     | Sat<br>Wet       | 2.1               | 3                      | 13           |                          |           |  |
|                    |                     |                  |                   | 23                     | 14           |                          | SP-SM     | Poorly Graded SAND with silt and gravel; grey, 70% fine to medium sand, 10% silt, 20% gravel   |
|                    |                     |                  |                   | 4                      | 15           |                          |           |  |
|                    |                     |                  |                   | 7                      | 15           |                          | WDFill    | Wood debris and cobble (~3"), subrounded; dark brown to tan                                    |
|                    |                     |                  |                   | 10                     | 16           |                          |           |  |
|                    |                     | Damp             | 36.7              | 9-50/6"                | 16           |                          |           | (grades no cobble, finer to coarser wood debris)   |
|                    |                     |                  |                   | 36                     | 17           |                          |           |  |
|                    |                     | Damp             | 63.8              | 27                     | 18           |                          |           |  |
|                    |                     |                  |                   | 19                     | 19           |                          |           |  |
|                    |                     |                  |                   | 7                      | 19           |                          |           |  |
|                    |                     | Damp             | 9.0               | 7                      | 20           |                          |           |  |
|                    |                     |                  |                   | 7                      | 21           |                          |           |  |
|                    |                     |                  |                   | 7                      | 22           |                          |           |  |
|                    |                     |                  |                   |                        |              |                          |           | <b>BOTTOM OF HOLE @ 20'</b>  |

Conc.  
 BENTONITE

# Delta

Environmental Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-9/DAS-8       |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/9/2005                    | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |
| SLOT SIZE: 0.020         | WELL DEPTH: 20'                           |                                  |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion    | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION   |
|--------------------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|---|
| Backfill<br>Casing |                    |                  |                   |                        | 1            |                          |           | Concrete (6")   |
|                    |                    |                  |                   |                        | 2            |                          |           | Air-knifed/vac-cleared to 5'  |
| BENTONITE          |                    | Dry              | 1.5               | 3                      | 3            |                          |           |   |
|                    |                    |                  |                   |                        | 4            |                          |           |   |
|                    |                    |                  |                   |                        | 6            |                          |           |   |
|                    |                    |                  |                   |                        | 6            |                          |           |   |
|                    |                    |                  |                   |                        | 6            |                          |           |   |
|                    |                    |                  |                   |                        | 4            |                          |           |   |
|                    |                    |                  |                   |                        | 6            |                          |           |   |
|                    |                    |                  |                   |                        | 6            |                          |           |   |
|                    |                    |                  |                   |                        | 3            |                          |           |   |
|                    |                    |                  |                   |                        | 3            |                          |           |   |
|                    |                    |                  |                   |                        | 3            |                          |           |   |
|                    |                    |                  |                   |                        | 4            |                          |           |   |
|                    |                    |                  |                   |                        | 7            |                          |           |   |
|                    |                    |                  |                   |                        | 8            |                          |           |   |
|                    |                    |                  |                   |                        | 8            |                          |           |   |
|                    |                    |                  |                   |                        | 6            |                          |           |   |
|                    |                    |                  |                   |                        | 3            |                          |           |   |
|                    |                    |                  |                   |                        | 2            |                          |           |   |
|                    |                    |                  |                   |                        | 6            |                          |           |   |
|                    |                    |                  |                   |                        | 6            |                          |           |   |
| 5                  |                    |                  |                   |                        |              |                          |           |   |
| 6                  |                    |                  |                   |                        |              |                          |           |   |
| 8                  |                    |                  |                   |                        |              |                          |           |   |
| 8                  |                    |                  |                   |                        |              |                          |           |   |
| 7                  |                    |                  |                   |                        |              |                          |           |   |
| 18                 |                    |                  |                   |                        |              |                          |           |   |
| 17                 |                    |                  |                   |                        |              |                          |           |   |
| 18                 |                    |                  |                   |                        |              |                          |           |   |
| 5                  |                    |                  |                   |                        |              |                          |           |   |
| 2                  |                    |                  |                   |                        |              |                          |           |   |
| 1                  |                    |                  |                   |                        |              |                          |           |   |
| SAND               |                    | Wet              | 9.0               | 30                     | 18           |                          | SP-SM     | Poorly Graded SAND with Silt; grey, wood debris, 50% sand, 10% silt, 5% gravel, 35% wood debris |
|                    |                    |                  |                   |                        | 19           |                          | WDFill    | Wood debris   |
|                    |                    | Sat              | 3.0               | 1                      | 20           |                          | SP-SM     | Poorly Graded SAND with Silt; as above  |
|                    |                    |                  |                   |                        | 21           |                          |           | BOTTOM OF HOLE @ 20'  |
|                    |                    |                  |                   |                        | 22           |                          |           |   |

▽  
12:25  
6/9/05

# Delta

Environmental  
Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-10/DAS-9      |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/9/2005                    | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |
| SLOT SIZE: 0.020         | WELL DEPTH: 20'                           |                                  |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill        | Casing |                    |                  |                   |                        |              |                          |           |  |
| Conc.           |        |                    |                  |                   |                        | 1            |                          |           | Concrete (8")  |
|                 |        |                    |                  |                   |                        | 2            |                          |           | Air-knifed/vac-cleared to 5'   |
|                 |        |                    |                  |                   |                        | 3            |                          |           |  |
|                 |        |                    |                  |                   |                        | 4            |                          |           |  |
|                 |        |                    |                  |                   | 3                      | 5            |                          |           |  |
|                 |        |                    | Dry              | 1.0               | 3                      | 6            |                          | ML        | SILT; brown, 95% silt, 5% fine sand, firm to hard                                    |
|                 |        |                    |                  |                   | 3                      | 7            |                          | SM        | Silty SAND; brown, 80% fine sand, 20% silt   |
|                 |        |                    | Moist            | 2.0               | 12                     | 8            |                          | SP        | Poorly Graded SAND; brown, trace gravel, 90% medium sand, 5% silt, 5% gravel         |
|                 |        |                    |                  |                   | 2                      | 9            |                          |           | (peat lense, dark brown, ~1" thickness)  |
|                 |        |                    |                  | 17.0              | 3                      | 10           |                          | SP        | Poorly Graded SAND; brown-grey, fine sand, soft                                      |
|                 |        |                    | Damp             | 203               | 2                      | 11           |                          |           |  |
|                 |        |                    |                  |                   | 5                      | 12           |                          |           | (as above, with gravel)  |
|                 |        |                    |                  | 283               | 4                      | 13           |                          |           |  |
|                 |        |                    |                  |                   | 4                      | 14           |                          | WDFill    | Wood debris; timber, coarse  |
|                 |        |                    | Wet              | 197               | 4                      | 15           |                          | SP        | Poorly Graded SAND; grey, 85% medium sand, 5% silt, 5% coarse gravel, 5% coarse sand |
|                 |        |                    |                  |                   | 3                      | 16           |                          |           |  |
|                 |        |                    |                  | 2.0               | 8                      | 17           |                          | WDFill    | (wood debris)  |
|                 |        |                    | Sat Wet          |                   | 4                      | 18           |                          | ML        | SILT; grey, with wood debris   |
|                 |        |                    |                  |                   | 6                      | 19           |                          |           | (grades saturated at wood debris/silt interface)                                     |
|                 |        |                    |                  |                   | 8                      | 20           |                          | WDFill    | Wood debris  |
|                 |        |                    | Wet              | 0.7               | 3                      | 21           |                          |           | (wood debris)  |
|                 |        |                    |                  |                   | 7                      | 22           |                          |           | <b>BOTTOM OF HOLE @ 20'</b>  |

# Delta

Environmental Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-11/DAS-10     |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/10/2005                   | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |
| SLOT SIZE: 0.020         | WELL DEPTH: 20'                           |                                  |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill        | Casing |                    |                  |                   |                        |              |                          |           |  |
| Conc.           |        |                    |                  |                   |                        |              |                          |           | Asphalt (3")   |
|                 |        |                    |                  |                   |                        |              |                          |           | Air-knifed/vac-cleared to 5'   |
|                 |        |                    | Dry              | 0.0               | 2                      | 5            |                          | ML        | SILT; brown, 95% silt, 5% fine sand  |
|                 |        |                    | Dry              | 0.0               | 4                      | 6            |                          |           |  |
|                 |        |                    | Damp             | 0.0               | 4                      | 7            |                          |           |  |
|                 |        |                    | Damp             | 0.4               | 21                     | 8            |                          | SW        | Well Graded SAND with Gravel; brown, 80% sand, 20% gravel  |
|                 |        |                    | Damp             | 0.0               | 16                     | 9            |                          | SM        | Silty SAND with Gravel; grey, 70% fine sand, 15% silt, 15% gravel, hard                                |
|                 |        |                    |                  |                   | 16                     | 10           |                          |           |  |
|                 |        |                    |                  |                   | 9                      | 11           |                          | SW        | Well Graded SAND with Gravel; brown  |
|                 |        |                    |                  |                   | 5                      | 12           |                          | SW-SM     | Poorly Graded SAND with Silt; grey, 80% medium sand, 10% silt, 10% gravel, wood debris at 12.6' to 13' |
|                 |        | ▽                  | Wet              | 198               | 7                      | 13           |                          | SW-SM     | Poorly Graded SAND with Silt; grey, 80% medium sand, 10% silt, 10% gravel                              |
|                 |        |                    | Wet              | 247               | 4                      | 14           |                          |           |  |
|                 |        |                    |                  | 2                 | 6                      | 15           |                          | SM        | Silty SAND with Gravel; grey, 65% medium-fine sand, 20% silt, 15% gravel                               |
|                 |        |                    | Sat              | 8.2               | 80/6"                  | 16           |                          |           |  |
|                 |        |                    |                  |                   | 10                     | 17           |                          | WDFill    | Wood debris  |
|                 |        |                    |                  |                   | 12                     | 18           |                          |           |  |
|                 |        |                    | Wet              | 32                | 28                     | 19           |                          |           | Wood debris; brown, with fine sand and trace silt, 85% wood debris, 10% fine sand, 5% silt             |
|                 |        |                    | Sat              | 7.9               | 53/6"                  | 20           |                          |           |  |
|                 |        |                    |                  |                   | 100/6"                 | 21           |                          |           |  |
|                 |        |                    |                  |                   |                        | 22           |                          |           |  |
|                 |        |                    |                  |                   |                        |              |                          |           | <b>BOTTOM OF HOLE @ 20'</b>  |

BENTONITE

SAND



# Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1  
 LOGGED BY: C. Fleming  
 DRILLER: CDI  
 DRILLING METHOD: HSA  
 SAMPLING METHOD: SS  
 CASING TYPE: PVC  
 SLOT SIZE: 0.020  
 GRAVEL PACK: 2-12

CLIENT: ConocoPhillips  
 LOCATION: 600 Westlake Ave N, Seattle, WA  
 DATE DRILLED: 6/10/2005  
 HOLE DIAMETER: 8"  
 HOLE DEPTH: 20'  
 WELL DIAMETER: 2"  
 WELL DEPTH: 20'  
 CASING STICKUP: Flush

BORING/WELL NO: SB-12/DAS-10  
 PAGE 1 OF 1



Location Map

See Figure 2

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION   |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|---|
| Backfill        | Casing |                    |                  |                   |                        |              |                          |           |   |
| Conc.           |        |                    |                  |                   |                        | 1            |                          |           | Asphalt (3")  |
|                 |        |                    |                  |                   |                        | 2            |                          |           | Air-knifed/vac-cleared to 5'  |
|                 |        |                    |                  |                   |                        | 3            |                          |           |   |
|                 |        |                    |                  |                   |                        | 4            |                          |           |   |
|                 |        |                    |                  |                   |                        | 5            |                          |           |   |
|                 |        |                    | Moist            | 0.2               | 2                      | 5            |                          | SW-SM     | Well Graded SAND with Silt and Gravel; brown, 60% sand, 30% gravel, 10% silt  |
|                 |        |                    |                  | 0.4               | 3                      | 6            |                          |           |   |
|                 |        |                    |                  |                   | 4                      | 7            |                          |           |   |
|                 |        |                    |                  | 1.2               | 4                      | 8            |                          | SM        | Silty SAND with Gravel; brown-grey, 70% fine to medium sand, 15% silt, 15% gravel, slight to moderate plasticity    |
|                 |        |                    |                  |                   | 2                      | 9            |                          |           |   |
|                 |        |                    |                  | 272               | 3                      | 10           |                          |           | (grades no gravel, grey, hard from 10.3' to 10.5')  |
|                 |        |                    |                  |                   | 5                      | 11           |                          | SP        | Poorly Graded SAND; grey, 85% fine to medium sand, 5% silt, 5% wood debris, 5% gravel                               |
|                 |        | 9:50<br>6/10/05    | Wet              | 180               | 6                      | 12           |                          |           | (visible sheen)   |
|                 |        |                    |                  | 330               | 3                      | 13           |                          |           |   |
|                 |        |                    |                  | 78                | 12                     | 14           |                          |           | Poorly Graded SAND with Gravel and wood debris; grey, 50% fine to medium sand, 40% wood debris, 15% gravel, 5% silt |
|                 |        |                    | Sat              | 87                | 8                      | 15           |                          |           | (grades less wood debris (30%), brown-grey)   |
|                 |        |                    |                  |                   | 21                     | 16           |                          |           | (as above, grading more clayey silt (~10%))   |
|                 |        |                    | Sat              | 147               | 4                      | 17           |                          |           |   |
|                 |        |                    |                  |                   | 31                     | 18           |                          |           |   |
|                 |        |                    | Sat              | 83                | 4                      | 19           |                          | WDFill    | Sawdust (4" thickness)  |
|                 |        |                    |                  |                   | 4                      | 20           |                          |           |   |
|                 |        |                    | Sat              | 9                 | 2                      | 21           |                          | SP        | Poorly Graded SAND; grey, with wood debris  |
|                 |        |                    |                  |                   | 3                      | 22           |                          |           |   |
|                 |        |                    | Wet              | 22.8              | 5                      |              |                          |           |   |
|                 |        |                    | Sat              | 16                | 9                      |              |                          |           |   |
|                 |        |                    |                  |                   |                        |              |                          |           | <b>BOTTOM OF HOLE @ 20'</b>   |

# Delta

Environmental  
Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-13            |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/10/2005                   | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: NA          | WELL DIAMETER: NA                         |                                  |
| SLOT SIZE: NA            | WELL DEPTH: NA                            |                                  |
| GRAVEL PACK: NA          | CASING STICKUP: NA                        |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION   |
|-----------------|--------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|---|
| Backfill        | Casing |                  |                   |                        |              |                          |           |   |
| Conc.           |        |                  |                   |                        |              |                          |           | Asphalt (4")  |
|                 |        |                  |                   |                        | 1            |                          |           | Air-knived/vac-cleared to 5'  |
|                 |        |                  |                   |                        | 2            |                          |           |   |
|                 |        |                  |                   |                        | 3            |                          |           |   |
|                 |        |                  |                   |                        | 4            |                          |           |   |
|                 |        |                  |                   |                        | 5            |                          |           |   |
|                 |        |                  |                   | 1                      | 5            |                          |           |   |
|                 |        |                  |                   | 3                      |              |                          |           |   |
|                 |        | Moist            | 1.0               | 4                      | 6            |                          | ML        | SILT with sand; grey, 80% silt, 20% sand, low plasticity                      |
|                 |        |                  |                   | 21                     |              |                          |           |   |
|                 |        | Moist            | 1.2               | 18                     | 7            |                          | SP-SM     | SAND with silt; grey, 80% fine to medium sand, 10% silt, 10% fine gravel      |
|                 |        |                  |                   | 8                      | 8            |                          |           | (wood debris at 7.5' to 7.7')   |
|                 |        |                  | 2.2               | 4                      | 9            |                          | SM        | Silty SAND; grey, 80% well-graded sand, 20% silt                              |
|                 |        |                  |                   | 4                      |              |                          |           |   |
|                 |        | Moist            | 1.9               | 2                      | 10           |                          |           | (grades 10% gravel with brown fine sand lenses)                               |
|                 |        |                  |                   | 2                      |              |                          |           |   |
|                 |        | Wet              | 1.8               | 3                      | 11           |                          |           |   |
|                 |        |                  |                   | 2                      | 12           |                          |           | (as above, with fine wood debris (3" lense), brown)                           |
|                 |        |                  |                   | 2                      |              |                          |           |   |
|                 |        | Sat              | 1.1               | 2                      | 13           |                          | WDFill    | Wood debris; coarse (~3" fragments), timber with saturated grey sand and silt |
|                 |        | Wet              |                   | 8                      | 14           |                          |           | Wood debris; reddish-brown, fine, wet, decomposed                             |
|                 |        | Sat              |                   | 3                      |              |                          |           |   |
|                 |        | Moist            | 0.2               | 2                      | 15           |                          | SM        | Silty SAND with wood debris; 60% well graded sand, 30% silt, 10% wood debris  |
|                 |        |                  |                   | 5                      |              |                          | WDFill    | Wood debris; tan, coarse sawdust  |
|                 |        |                  |                   | 3                      | 16           |                          | SM        | Silty SAND with wood debris; 40% well graded sand, 30% silt, 30% wood debris  |
|                 |        | Sat              | 1.1               | 1                      | 17           |                          |           |   |
|                 |        |                  |                   | 3                      |              |                          |           |   |
|                 |        | Moist            | 1.7               | 4                      | 18           |                          | WDFill    | Wood debris; reddish-brown, fine, moist                                       |
|                 |        |                  |                   | 10                     |              |                          | SP        | Poorly Graded SAND; grey, 95% fine to medium sand, 5% silt                    |
|                 |        | Wet              |                   | 10                     | 19           |                          | SP-SM     | Poorly Graded SAND with silt; grey  |
|                 |        | Moist            | 1.1               | 14                     | 20           |                          | SP        | Poorly Graded SAND; grey, 95% fine to medium sand, 5% silt                    |
|                 |        |                  |                   | 15                     |              |                          |           |   |
|                 |        |                  |                   |                        | 21           |                          |           |   |
|                 |        |                  |                   |                        | 22           |                          |           |   |

▽  
14:30  
6/10/05

BENTONITE

**BOTTOM OF HOLE @ 20'**

# Delta

Environmental Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-14/VE-7       |
| LOGGED BY: J. North      | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/13/2005                   | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |
| SLOT SIZE: 0.020         | WELL DEPTH: 15'                           |                                  |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION   |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|---|
| Backfill        | Casing |                    |                  |                   |                        |              |                          |           |   |
| Conc.           |        |                    |                  |                   |                        | 1            |                          |           | Asphalt (2")  |
| BENT.           |        |                    |                  |                   |                        | 2            |                          |           | Air-knifed/vac-cleared to 5'  |
|                 |        |                    |                  |                   |                        | 3            |                          |           |   |
|                 |        |                    |                  |                   |                        | 4            |                          |           |   |
|                 |        |                    | Moist            | 3.4               | 1                      | 5            |                          |           | Clayey SILT; grey, slightly mottled orange, 5-10% clay, trace organics, moderate plasticity, dense, moist |
|                 |        |                    |                  |                   | 1                      | 6            |                          |           | (as above, with increased organics, trace coarse sand)  |
|                 |        |                    | Moist            | 3.4               | 2                      | 7            |                          |           |   |
|                 |        |                    |                  |                   | 3                      | 8            |                          | CL-ML     | Clayey SILT; dark grey, changes to wood at 8.3'   |
|                 |        |                    | Moist            | 16.0              | 3                      | 9            |                          | SP        | Silty SAND; 5% silt, coarse sand, with wood fragments   |
|                 |        |                    | Moist            | 399               | 2                      | 10           |                          | SM        | SAND; grey, fine to medium, with 5-10% silt, moist, wet at 10.5' depth                                    |
|                 |        | 7:57<br>6/13/05    | Wet              |                   | 3                      | 11           |                          |           | Silty SAND; grey, fine sand, 5-10% silt, loose, wet   |
|                 |        |                    | Wet              | 25.0              | 1                      | 12           |                          |           | (as above, with wood fragments)   |
|                 |        |                    | Wet              | 5.9               | 7                      | 13           |                          |           | (as above, bottom 4" degraded wood, peat)   |
|                 |        |                    | Wet              | 19.9              | 5                      | 14           |                          |           |   |
|                 |        |                    | Moist            | 6.0               | 5                      | 15           |                          | PT        | PEAT; degraded wood/peat (poor recovery)  |
|                 |        |                    |                  |                   | 3                      | 16           |                          |           |   |
|                 |        |                    | Moist            | 24.1              | 10                     | 17           |                          |           | Wood fragments with silt  |
|                 |        |                    |                  |                   | 10                     | 18           |                          | WDFill    |   |
|                 |        |                    |                  |                   | 12                     | 19           |                          |           | Wood fragments; changes to peat at 19'  |
|                 |        |                    |                  | 2.5               | 5                      | 20           |                          |           |   |
|                 |        |                    |                  |                   | 7                      | 21           |                          |           |   |
|                 |        |                    |                  |                   | 8                      | 22           |                          |           | BOTTOM OF HOLE @ 20'  |

# Delta

Environmental  
Consultants, Inc.

|                          |   |   |
|--------------------------|---|---|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-15/DAS-12            |
| LOGGED BY: J. North      | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                             |
| DRILLER: CDI             | DATE DRILLED: 6/13/2005                   | Location Map<br><br><b>See Figure 2</b> |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |   |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |   |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |   |
| SLOT SIZE: 0.020         | WELL DEPTH: 20'                           |   |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |   |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
|                 |                    |                  |                   |                        |              |                          |           |  |
| Conc.           |                    |                  |                   |                        | 1            |                          |           | Asphalt (2")   |
|                 |                    |                  |                   |                        | 2            |                          |           | Air-knifed/vac-cleared to 8'   |
|                 |                    |                  |                   |                        | 3            |                          |           |  |
|                 |                    |                  |                   |                        | 4            |                          |           |  |
|                 |                    |                  |                   |                        | 5            |                          |           |  |
|                 |                    |                  |                   |                        | 6            |                          |           |  |
|                 |                    |                  |                   |                        | 7            |                          |           |  |
|                 |                    |                  |                   | 4                      | 8            |                          | SP        | SAND; grey-brown, fine, trace medium, with <5% silt, trace fine gravel, loose, dry   |
|                 |                    | Dry              | 0.0               | 4                      | 9            |                          |           |  |
|                 |                    |                  |                   | 5                      | 10           |                          |           | (as above, changes to sandy silt at 10.0', blue-grey, 10-15% fine to medium sand, trace coarse sand and organics, dense, plastic, moist) |
|                 |                    | Moist            | 9.5               | 6                      | 11           |                          | SM        |  |
|                 |                    |                  |                   | 7                      | 12           |                          |           | (as above, with large wood fragment (>6"), loose, wet)   |
|                 | 10:25<br>6/13/05   | Wet              | 87.7              | 2                      | 13           |                          |           | Silty SAND; blue-grey, 10-15% silt, fine to medium sand, wood fragments, trace fine gravel, loose, wet                                   |
|                 |                    |                  |                   | 1                      | 14           |                          |           | Silty SAND; as above   |
|                 |                    | Wet              | 146               | 2                      | 15           |                          |           |  |
|                 |                    |                  |                   | 3                      | 16           |                          |           | Silty SAND; blue-grey, fine sand, 5-10% silt, loose, non-plastic, wet  |
|                 |                    | Wet              | 1.3               | 2                      | 17           |                          |           | (as above, sand slightly coarser with increasing fine gravel)  |
|                 |                    |                  |                   | 3                      | 18           |                          |           |  |
|                 |                    | Wet              | 0.0               | 5                      | 19           |                          |           | (as above, changes to peat with wood fragments at 19.25')  |
|                 |                    |                  |                   | 4                      | 20           |                          | PT        |  |
|                 |                    |                  |                   | 4                      | 21           |                          |           | BOTTOM OF HOLE @ 20'   |
|                 |                    |                  |                   | 8                      | 22           |                          |           |  |

# Delta

Environmental  
Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-17            |
| LOGGED BY: J. North      | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/14/2005                   | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: NA          | WELL DIAMETER: NA                         |                                  |
| SLOT SIZE: NA            | WELL DEPTH: NA                            |                                  |
| GRAVEL PACK: NA          | CASING STICKUP: NA                        |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample   |          | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|----------|----------|-----------|--|
| Backfill        | Casing |                    |                  |                   |                        |              | Recovery | Interval |           |  |
|                 |        |                    |                  |                   |                        | 1            |          |          |           | Asphalt (2")   |
|                 |        |                    |                  |                   |                        | 2            |          |          |           | Air-knifed/vac-cleared to 5'   |
|                 |        |                    |                  |                   |                        | 3            |          |          |           |  |
|                 |        |                    |                  |                   |                        | 4            |          |          |           |  |
|                 |        |                    | Moist            | 0                 | 2                      | 5            |          |          |           | Sandy Gravelly SILT; greys and browns, mottled, 15-20% fine to medium sand, with coarse sand, fine to medium gravel, dense, non-plastic, moist |
|                 |        |                    | Moist            | 0                 | 6                      | 6            |          |          | GM        | (as above, grading siltier with depth; grades to wood debris at 7.75')   |
|                 |        |                    | Moist            | 0                 | 6                      | 7            |          |          | SM        |  |
|                 |        |                    | Moist            | 0                 | 12                     | 8            |          |          | SM        | Sandy Gravelly SILT; as above, with organics, grades to clayey silt at 9.0, blue-grey, with fine sand, moderate plasticity, dense, moist       |
|                 |        |                    | Moist            | 0                 | 8                      | 9            |          |          | CL-ML     | (as above, sand decreases to <5% at ~10.5')  |
|                 |        |                    | Moist            | 0                 | 2                      | 10           |          |          |           | (no recovery, large flake of wood only)  |
|                 |        |                    | Moist            | 0                 | 2                      | 11           |          |          |           |  |
|                 |        |                    | Moist            | 5.8               | 4                      | 13           |          |          | WDFill    | (no recovery, wood debris)<br>(slow drilling in wood/log)  |
|                 |        |                    | Moist            | 4.7               | 4                      | 14           |          |          |           | (poor recovery, wood fragment)   |
|                 |        |                    | Wet              |                   | 50/6"                  | 15           |          |          |           | (poor recovery, wood debris, water )   |
|                 |        | ▽                  | Wet              |                   | 100/5"                 | 16           |          |          |           |  |
|                 |        |                    | Wet              |                   | 100/3"                 | 17           |          |          |           | Wood debris with trace Sandy Silt; as above  |
|                 |        |                    | Wet              |                   | 21                     | 19           |          |          |           | Wood debris with Sandy Silt; wet   |
|                 |        |                    |                  |                   | 11                     | 20           |          |          |           |  |
|                 |        |                    |                  |                   | 6                      | 21           |          |          |           |  |
|                 |        |                    |                  |                   |                        | 22           |          |          |           | <b>BOTTOM OF HOLE @ 20'</b>  |

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# Delta

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|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: SB-18            |
| LOGGED BY: J. North      | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/14/2005                   | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: NA          | WELL DIAMETER: NA                         |                                  |
| SLOT SIZE: NA            | WELL DEPTH: NA                            |                                  |
| GRAVEL PACK: NA          | CASING STICKUP: NA                        |                                  |

ELEVATION

NORTHING

EASTING

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill        | Casing |                    |                  |                   |                        |              |                          |           |  |
| Conc.           |        |                    |                  |                   |                        |              |                          |           | Asphalt (2")   |
|                 |        |                    |                  |                   |                        | 1            |                          |           | Air-knifed/vac-cleared to 5'   |
|                 |        |                    |                  |                   |                        | 2            |                          |           |  |
|                 |        |                    |                  |                   |                        | 3            |                          |           |  |
|                 |        |                    |                  |                   |                        | 4            |                          |           |  |
|                 |        |                    |                  |                   | 2                      | 5            |                          | SM        | Silty SAND; grey, 15-20% silt, fine to medium sand, grades to sandy silt at 5.75', with organic fragments, moderate plasticity, dense, moist |
|                 |        |                    | Moist            | 19                | 2                      | 6            |                          | SM        | (as above, grades to silty sand, 5-10% silt at 7.75', with charred organic fragments, loose)   |
|                 |        |                    | Moist            | 0.8               | 3                      | 7            |                          |           |  |
|                 |        |                    |                  |                   | 4                      | 8            |                          |           | (as above, changes to sandy clayey silt at 9.25')  |
|                 |        |                    | Moist            | 0.0               | 4                      | 9            |                          |           |  |
|                 |        | ▽                  |                  |                   | 3                      | 10           |                          | CL-ML SM  | Silty SAND; grey/brown, 10-15% silt, fine to medium sand, with fine to coarse gravel, non-plastic, loose, wet                                |
|                 |        |                    | Wet              | 0.0               | 3                      | 11           |                          |           | (as above, bottom in wood at 12.25')   |
|                 |        |                    | Wet              | 0.4               | 10                     | 12           |                          |           |  |
|                 |        |                    | Wet              |                   | 7                      | 13           |                          | PT-WDFill | (no recovery)  |
|                 |        |                    | Wet              |                   | 3                      | 14           |                          |           | (no recovery)  |
|                 |        |                    | Wet              |                   | 4                      | 15           |                          |           |  |
|                 |        |                    | Wet              | 2.2               | 5                      | 16           |                          | WDFill    | Wood debris with Silt; grey, wet   |
|                 |        |                    | Wet              |                   | 35                     | 17           |                          |           | Wood debris/PEAT; wet  |
|                 |        |                    | Wet              | 0.0               | 4                      | 18           |                          |           |  |
|                 |        |                    | Wet              | 2.0               | 4                      | 19           |                          |           | (as above, grades to clayey silt, silty sand at 19', bottom in fine to medium silty sand, 5-10% silt)  |
|                 |        |                    | Wet              |                   | 6                      | 20           |                          |           |  |
|                 |        |                    |                  |                   | 12                     | 21           |                          |           | <b>BOTTOM OF HOLE @ 20'</b>  |
|                 |        |                    |                  |                   | 30                     | 22           |                          |           |  |

# Delta

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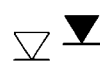
|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: MW-54            |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/7/2005                    | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |
| SLOT SIZE: 0.020         | WELL DEPTH: 20'                           |                                  |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill        | Casing |                  |                   |                        |              |                          |           |  |
|                 |        |                  |                   |                        |              |                          |           | Asphalt (4")<br>(4" asphalt layer at 8" below surface grade)   |
|                 |        |                  |                   |                        | 1            |                          |           |  |
|                 |        |                  |                   |                        | 2            |                          |           | Air-knifed/vac-cleared to 5'<br>(sand fill with broken concrete, bricks, and other debris)           |
|                 |        |                  |                   |                        | 3            |                          |           |  |
|                 |        |                  |                   |                        | 4            |                          |           |  |
|                 |        |                  |                   | 3                      | 5            |                          |           |  |
|                 |        | Moist            | 0.0               | 4                      | 6            |                          | SP        | Poorly Graded SAND; brown, with trace wood debris, (charcoal-like) and brick fragments at 7.5' to 8' |
|                 |        | Moist            | 0.1               | 4                      | 7            |                          |           |  |
|                 |        |                  |                   | 3                      | 8            |                          |           |  |
|                 |        | Wet              | 0.1               | 3                      | 9            |                          |           | (grades more well-graded, subrounded gravel, no charcoal)  |
|                 |        |                  |                   | 2                      | 10           |                          |           | (as above, with 5%-10% sandy silt lenses)  |
|                 |        |                  | 0.3               | 2                      | 11           |                          |           |  |
|                 |        | Sat              | 0.0               | 4                      | 12           |                          |           |  |
|                 |        |                  |                   | 3                      | 13           |                          |           |  |
|                 |        | Sat              | 0.1               | 3                      | 14           |                          | WDFill    | Wood debris; brown   |
|                 |        |                  |                   | 6                      | 15           |                          |           | (grades finer wood debris (sawdust))   |
|                 |        | Sat              | 0.1               | 4                      | 16           |                          |           | (grades coarser wood debris)   |
|                 |        |                  |                   | 1                      | 17           |                          |           |  |
|                 |        | Sat              | 0.6               | 2                      | 18           |                          |           |  |
|                 |        |                  |                   | 6                      | 19           |                          | SP        | Poorly Graded SAND; grey, fine sand  |
|                 |        |                  | 0.0               | 8                      | 20           |                          |           |  |
|                 |        | Sat              | 0.1               | 9                      | 21           |                          |           |  |
|                 |        |                  |                   | 21                     | 22           |                          |           |  |
|                 |        |                  |                   | 17                     |              |                          |           | <b>BOTTOM OF HOLE @ 20'</b>  |

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|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: MW-55            |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/8/2005                    | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |
| SLOT SIZE: 0.020         | WELL DEPTH: 20'                           |                                  |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION   |
|-----------------|--------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|---|
| Backfill        | Casing |                  |                   |                        |              |                          |           |   |
|                 |        |                  |                   |                        |              |                          |           | Asphalt (4")  |
|                 |        |                  |                   |                        | 1            |                          |           | Air-knifed/vac-cleared to 5'<br>(Medium sand and concrete debris)                                       |
|                 |        |                  |                   |                        | 2            |                          |           |   |
|                 |        |                  |                   |                        | 3            |                          | SP        | Poorly Graded SAND; tan   |
|                 |        |                  |                   |                        | 4            |                          |           |   |
|                 |        |                  |                   | 2                      | 5            |                          |           |   |
|                 |        | Moist            | 2.0               |                        | 3            |                          | ML        | SILT with Sand; grey, 80% silt, 20% fine sand, firm, non-plastic  |
|                 |        |                  |                   |                        | 4            |                          |           |   |
|                 |        |                  |                   | 6                      | 6            |                          | SP        | Poorly Graded SAND with Gravel; brown-grey, 85% fine to medium sand, 15% well-graded gravel, subrounded |
|                 |        | Moist            | 16.8              | 4                      | 7            |                          |           |   |
|                 |        |                  |                   |                        | 8            |                          |           |   |
|                 |        | Damp             | 26.0              | 100/1"                 | 9            |                          |           |   |
|                 |        |                  |                   |                        | 10           |                          | WDFill    | Wood debris; fibrous with cedar odor  |
|                 |        |                  |                   |                        | 11           |                          |           |   |
|                 |        |                  |                   |                        | 11           |                          |           |   |
|                 |        | Moist            | 33.3              |                        | 12           |                          |           | (grades coarser wood debris fragments (timber))   |
|                 |        | Wet              |                   |                        | 12           |                          | SP-SM     | Poorly Graded SAND with Silt; grey, 90% fine sand,  |
|                 |        | Moist            | 0.0               |                        | 13           |                          | WDFill    | 10% silt, soft  |
|                 |        |                  |                   |                        | 14           |                          |           | (grades finer wood debris (sawdust-like), reddish-brown))   |
|                 |        |                  |                   |                        | 14           |                          |           |   |
|                 |        | Damp             | 0.0               |                        | 15           |                          |           |   |
|                 |        |                  |                   |                        | 15           |                          |           |   |
|                 |        |                  |                   |                        | 16           |                          |           |   |
|                 |        |                  |                   |                        | 16           |                          |           |   |
|                 |        |                  |                   |                        | 17           |                          |           | (grades tan sawdust with trace fine sand and silt)  |
|                 |        | Moist            | 0.0               |                        | 17           |                          |           |   |
|                 |        |                  |                   |                        | 18           |                          | SM        | Silty SAND; brown, with gray medium sand lenses, 80% medium sand, 20% silt, soft                        |
|                 |        |                  |                   |                        | 18           |                          |           |   |
|                 |        |                  |                   |                        | 19           |                          |           |   |
|                 |        |                  | 0.0               |                        | 19           |                          |           |   |
|                 |        |                  |                   |                        | 20           |                          | WDFill    | Wood debris (sawdust)   |
|                 |        |                  |                   |                        | 20           |                          |           |   |
|                 |        |                  |                   |                        | 21           |                          |           | <b>BOTTOM OF HOLE @ 20'</b>   |
|                 |        |                  |                   |                        | 21           |                          |           |   |
|                 |        |                  |                   |                        | 22           |                          |           |   |

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7:25  
6/9/05

SAND

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# Delta

Environmental Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: MW-56            |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/9/2005                    | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |
| SLOT SIZE: 0.020         | WELL DEPTH: 20'                           |                                  |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill        | Casing |                  |                   |                        |              |                          |           |  |
|                 |        |                  |                   |                        |              |                          |           | Asphalt (4")   |
|                 |        |                  |                   |                        | 1            |                          |           | Air-knifed/vac-cleared to 5'   |
|                 |        |                  |                   |                        | 2            |                          |           |  |
|                 |        |                  |                   |                        | 3            |                          |           |  |
|                 |        |                  |                   |                        | 4            |                          |           |  |
|                 |        |                  |                   |                        | 5            |                          |           |  |
|                 |        | Dry              | 7.3               | 1                      | 5            |                          |           |  |
|                 |        |                  |                   | 3                      | 6            |                          | ML        | SILT; grey-green, 85% silt, 5% fine sand, 10% coarse gravel, firm, non-plastic   |
|                 |        |                  |                   | 5                      | 7            |                          |           | (grades trace fine gravel)   |
|                 |        | Dry              | 11.5              | 4                      | 8            |                          |           |  |
|                 |        |                  |                   | 4                      | 9            |                          |           |  |
|                 |        |                  |                   | 4                      | 10           |                          | SP        | Poorly Graded SAND with Gravel; dark brown                                       |
|                 |        | Dry              | 38.0              | 3                      | 11           |                          | SW        | Well Graded SAND with Gravel; grey, 80% well graded sand, 20% well-graded gravel |
|                 |        | Moist            | 21.0              | 4                      | 12           |                          |           | (as above)   |
|                 |        |                  |                   | 5                      | 13           |                          |           | (as above)   |
|                 |        |                  |                   | 7                      | 14           |                          |           |  |
|                 |        | Wet              | 7.0               | 3                      | 15           |                          |           | (grades brown, decomposed organic (wood debris) at 15.5')                        |
|                 |        |                  |                   | 3                      | 16           |                          | WDFill    | (wood debris, grades sawdust)  |
|                 |        | Wet              | 3.2               | 1                      | 17           |                          |           |  |
|                 |        |                  |                   | 4                      | 18           |                          |           | Poorly Graded SAND; grey, fine sand  |
|                 |        |                  |                   | 26                     | 19           |                          | SP-OL     | Wood debris; peat-like, organic soil   |
|                 |        |                  |                   | 25                     | 20           |                          | SP-SM     | Poorly Graded SAND with Silt; brown, some wood debris                            |
|                 |        | Sat              | 4.8               | 6                      | 21           |                          |           | (trace fine sand at bottom)  |
|                 |        |                  |                   | 7                      | 22           |                          |           |  |
|                 |        | Wet              | 3.8               | 8                      |              |                          |           |  |
|                 |        |                  |                   | 3                      |              |                          |           |  |
|                 |        |                  |                   | 4                      |              |                          |           |  |
|                 |        | Sat              | 1.7               | 1                      |              |                          |           |  |
|                 |        |                  |                   | 3                      |              |                          |           |  |
|                 |        |                  |                   | 1                      |              |                          |           |  |
|                 |        | Sat              | 2.4               | 1                      |              |                          |           |  |
|                 |        |                  |                   | 6                      |              |                          |           |  |
|                 |        |                  |                   |                        |              |                          |           | <b>BOTTOM OF HOLE @ 20'</b>  |

12:25  
6/9/05

SAND

BENT. Conc.

# Delta

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|                          |   |                                  |         |
|--------------------------|---|----------------------------------|---------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: MW-57            |         |
| LOGGED BY: C. Fleming    | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |         |
| DRILLER: CDI             | DATE DRILLED: 6/10/2005                   | Location Map<br><br>See Figure 2 |         |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |         |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |         |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |         |
| SLOT SIZE: 0.020         | WELL DEPTH: 20'                           |                                  |         |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |         |
| ELEVATION                |   | NORTHING                         | EASTING |

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION   |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|---|
| Backfill        | Casing |                    |                  |                   |                        |              |                          |           |   |
|                 |        |                    |                  |                   |                        |              |                          |           | Asphalt (4")  |
|                 |        |                    |                  |                   |                        | 1            |                          |           | Air-knifed/vac-cleared to 5'  |
|                 |        |                    |                  |                   |                        | 2            |                          |           |   |
|                 |        |                    |                  |                   |                        | 3            |                          |           |   |
|                 |        |                    |                  |                   |                        | 4            |                          |           |   |
|                 |        |                    |                  |                   |                        | 5            |                          |           |   |
|                 |        |                    | Moist            | 2.0               | 2                      | 5            |                          |           |   |
|                 |        |                    |                  |                   | 2                      | 6            |                          | SP-SM     | Poorly Graded SAND with Silt and Gravel; light brown, 60% sand, 30% well-graded gravel, moderate plasticity           |
|                 |        |                    |                  |                   | 2                      | 7            |                          |           |   |
|                 |        |                    | Moist            | 0.3               | 3                      | 7            |                          |           |   |
|                 |        |                    |                  |                   | 3                      | 8            |                          |           |   |
|                 |        |                    | Dry              | 38.0              | 15                     | 8            |                          |           |   |
|                 |        |                    |                  |                   | 15                     | 9            |                          |           |   |
|                 |        |                    | Wet              | 11.0              | 25                     | 9            |                          | WDFill    | Wood debris; dark brown, decomposed with larger fragments   |
|                 |        |                    |                  |                   | 25                     | 10           |                          |           |   |
|                 |        |                    |                  | 21.1              | 15                     | 10           |                          | SM        | Silty SAND with wood debris and trace brick fragment; brown-gray, 50% sand, 25% silt with clay fines, 25% wood debris |
|                 |        |                    | Wet              | 259.0             | 14                     | 11           |                          |           | (grades trace wood debris, cobble)  |
|                 |        |                    |                  |                   | 14                     | 12           |                          |           |   |
|                 |        |                    | Wet              | 30.0              | 6                      | 12           |                          |           | (grades gray in color with 15% fine gravel, moderate plasticity)  |
|                 |        |                    |                  |                   | 6                      | 13           |                          |           |   |
|                 |        |                    | Wet              | 39.0              | 5                      | 13           |                          | WDFill    | Wood debris and Gravel with Sand; coarse gravel   |
|                 |        |                    |                  |                   | 36                     | 14           |                          |           |   |
|                 |        |                    | Wet              |                   | 3                      | 14           |                          |           | (no recovery)   |
|                 |        |                    |                  |                   | 3                      | 15           |                          |           |   |
|                 |        |                    | Wet              | 9.1               | 7                      | 15           |                          |           | Wood debris with Poorly Graded SAND   |
|                 |        |                    |                  |                   | 4                      | 16           |                          |           |   |
|                 |        |                    | Wet              | 1.0               | 6                      | 16           |                          |           |   |
|                 |        |                    |                  |                   | 6                      | 17           |                          |           |   |
|                 |        |                    |                  |                   | 8                      | 17           |                          |           |   |
|                 |        |                    |                  |                   | 8                      | 18           |                          | SW-SM     | Well Graded SAND with Silt; grey, wood fibers and reddish-brown sawdust   |
|                 |        |                    |                  |                   |                        | 19           |                          |           |   |
|                 |        |                    |                  |                   |                        | 20           |                          |           |   |
|                 |        |                    |                  |                   |                        | 21           |                          |           |   |
|                 |        |                    |                  |                   |                        | 22           |                          |           |   |
|                 |        |                    |                  |                   |                        |              |                          |           | <b>BOTTOM OF HOLE @ 20'</b>   |

BENT CONC.

SAND

12:25  
6/10/05

# Delta

Environmental  
Consultants, Inc.

|                  |              |                 |                                 |                                  |             |
|------------------|--------------|-----------------|---------------------------------|----------------------------------|-------------|
| PROJECT NO:      | WA255-3510-1 | CLIENT:         | ConocoPhillips                  | BORING/WELL NO:                  | SB-16/MW-58 |
| LOGGED BY:       | J. North     | LOCATION:       | 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |             |
| DRILLER:         | CDI          | DATE DRILLED:   | 6/13/2005                       | Location Map<br><br>See Figure 2 |             |
| DRILLING METHOD: | HSA          | HOLE DIAMETER:  | 8"                              |                                  |             |
| SAMPLING METHOD: | SS           | HOLE DEPTH:     | 20'                             |                                  |             |
| CASING TYPE:     | PVC          | WELL DIAMETER:  | 2"                              |                                  |             |
| SLOT SIZE:       | 0.020        | WELL DEPTH:     | 20'                             |                                  |             |
| GRAVEL PACK:     | 2-12         | CASING STICKUP: | Flush                           |                                  |             |

|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION   |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|---|
| Backfill        | Casing |                    |                  |                   |                        |              |                          |           |   |
|                 |        |                    |                  |                   |                        |              |                          |           | Asphalt (2")  |
|                 |        |                    |                  |                   |                        | 1            |                          |           | Air-knifed/vac-cleared to 5'  |
|                 |        |                    |                  |                   |                        | 2            |                          |           |   |
|                 |        |                    |                  |                   |                        | 3            |                          |           |   |
|                 |        |                    |                  |                   |                        | 4            |                          |           |   |
|                 |        |                    |                  |                   | 4                      | 5            |                          | SM        | Silty SAND; grey-brown, fine sand, 5-10% silt, 2" thick dense silt lense at 5.75' to 5.95', loose, moist                                |
|                 |        |                    | Moist            | 0.2               | 4                      | 6            |                          |           |   |
|                 |        |                    |                  |                   | 4                      | 7            |                          | SM        | SAND/Silty SAND; grey-brown, fine sand, 5-10% silt, loose, moist  |
|                 |        |                    | Moist            | 0.1               | 3                      | 8            |                          |           |   |
|                 |        |                    |                  |                   | 3                      | 9            |                          | SM        | (as above)  |
|                 |        |                    | Moist            | 0.0               | 4                      | 10           |                          |           |   |
|                 |        |                    |                  |                   | 5                      | 11           |                          |           | (as above to 10.8', changes to blue-grey clayey silt, wood fragments at 10.5' to 11.0')   |
|                 |        |                    | Moist            | 9.6               | 3                      | 12           |                          |           |   |
|                 |        |                    |                  |                   | 3                      | 13           |                          |           | Sandy Gravelly SILT; dark brown to grey, fine to medium sand, fine to medium gravel, 10-15% organics, trace brick fragments, loose, wet |
|                 |        | 12:00<br>6/10/05   | Wet              | 455               | 3                      | 14           |                          |           | SAND; fine with metal debris (pulley)   |
|                 |        |                    |                  |                   | 6                      | 15           |                          |           |   |
|                 |        |                    | Moist            | 178               | 7                      | 16           |                          |           | Silty SAND; grey/mottled, wood fragments, poor recovery   |
|                 |        |                    | Wet              | 281               | 3                      | 17           |                          |           |   |
|                 |        |                    |                  |                   | 3                      | 18           |                          |           | (as above, poor recovery)   |
|                 |        |                    | Wet              | 253               | 4                      | 19           |                          |           |   |
|                 |        |                    |                  |                   | 3                      | 20           |                          |           | (as above, changes to wood fragments at 17.75', coarse, angular wood fragments with silt)   |
|                 |        |                    | Wet              | 15.4              | 10                     | 21           |                          | PT        | Wood fragments and PEAT with trace fine sand and silt   |
|                 |        |                    |                  |                   | 24                     | 22           |                          |           |   |
|                 |        |                    | Wet              | 3.0               | 3                      |              |                          |           |   |
|                 |        |                    |                  |                   | 3                      |              |                          |           |   |
|                 |        |                    |                  |                   | 3                      |              |                          |           |   |
|                 |        |                    |                  |                   |                        |              |                          |           | BOTTOM OF HOLE @ 20'  |

# Delta

Environmental Consultants, Inc.

PROJECT NO: WA255-3510-1      CLIENT: ConocoPhillips      BORING/WELL NO: MW-59  
 LOGGED BY: J. North      LOCATION: 600 Westlake Ave N, Seattle, WA      PAGE 1 OF 1  
 DRILLER: CDI      DATE DRILLED: 6/14/2005      Location Map  
 DRILLING METHOD: HSA      HOLE DIAMETER: 8"  
 SAMPLING METHOD: SS      HOLE DEPTH: 20'  
 CASING TYPE: PVC      WELL DIAMETER: 2"  
 SLOT SIZE: 0.020      WELL DEPTH: 20'  
 GRAVEL PACK: 2-12      CASING STICKUP: Flush

See Figure 2

ELEVATION      NORTHING      EASTING

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION   |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|---|
| Backfill        | Casing |                    |                  |                   |                        |              |                          |           |   |
|                 |        |                    |                  |                   |                        |              |                          |           | Asphalt (2")  |
|                 |        |                    |                  |                   |                        | 1            |                          |           | Air-knifed/vac-cleared to 5'  |
|                 |        |                    |                  |                   |                        | 2            |                          |           |   |
|                 |        |                    |                  |                   |                        | 3            |                          |           |   |
|                 |        |                    |                  |                   |                        | 4            |                          |           |   |
|                 |        |                    | Moist            | 2.0               | 4                      | 5            |                          | SM        | Sandy SILT; grey/mottled, 10-15% sand, with fine to coarse gravel, with organic, dense, moist   |
|                 |        |                    |                  |                   | 2                      | 6            |                          |           |   |
|                 |        |                    | Moist            | 0.1               | 1                      | 7            |                          |           | (as above, sand decreasing)   |
|                 |        |                    |                  |                   | 2                      | 8            |                          |           |   |
|                 |        |                    | Moist            | 0.5               | 2                      | 9            |                          | PT        | (as above, changes to peat at 8.5', dark brown/red)   |
|                 |        |                    |                  |                   | 6                      | 10           |                          | SM        | Silty SAND; grey, 15-20% silt, fine sand, trace fine gravel, dense, moist   |
|                 |        |                    | Moist            | 0.0               | 1                      | 11           |                          |           |   |
|                 |        |                    | Wet              | 87                | 2                      | 12           |                          |           | (as above, fine sand, 15-20% silt, dark grey, moist to wet at 12')  |
|                 |        | 15:50<br>6/10/05   |                  |                   | 4                      | 13           |                          |           | (as above, silt decreasing, loose, saturated, slight visible sheen)   |
|                 |        |                    | Wet              | 281               | 6                      | 14           |                          |           | (as above)  |
|                 |        |                    | Wet              | 4                 | 2                      | 15           |                          |           |   |
|                 |        |                    |                  |                   | 3                      | 16           |                          |           | (as above, with gravel and concrete debris, loose, visible sheen)   |
|                 |        |                    | Wet              | 188               | 3                      | 17           |                          |           |   |
|                 |        |                    |                  |                   | 5                      | 18           |                          |           | SAND; greys, coarse, 5-10% silt, fine to coarse gravel, silt lense 5" thick, gravelly SAND, fine to coarse, loose, wet, with concrete |
|                 |        |                    | Wet              | 8.5               | 7                      | 19           |                          |           | Wood debris with SILT; grades to sandsilt/silt at 19.25', thinly bedded, non-plastic, loose; wet                                      |
|                 |        |                    | Wet              | 0.8               | 13                     | 20           |                          |           |   |
|                 |        |                    |                  |                   | 7                      | 21           |                          |           |   |
|                 |        |                    |                  |                   | 7                      | 22           |                          |           |   |
|                 |        |                    |                  |                   |                        |              |                          |           | <b>BOTTOM OF HOLE @ 20'</b>   |

BENTONITE

SAND

# Delta

Environmental Consultants, Inc.

|                          |   |                                  |
|--------------------------|---|----------------------------------|
| PROJECT NO: WA255-3510-1 | CLIENT: ConocoPhillips                    | BORING/WELL NO: MW-60            |
| LOGGED BY: J. North      | LOCATION: 600 Westlake Ave N, Seattle, WA | PAGE 1 OF 1                      |
| DRILLER: CDI             | DATE DRILLED: 6/14/2005                   | Location Map<br><br>See Figure 2 |
| DRILLING METHOD: HSA     | HOLE DIAMETER: 8"                         |                                  |
| SAMPLING METHOD: SS      | HOLE DEPTH: 20'                           |                                  |
| CASING TYPE: PVC         | WELL DIAMETER: 2"                         |                                  |
| SLOT SIZE: 0.020         | WELL DEPTH: 20'                           |                                  |
| GRAVEL PACK: 2-12        | CASING STICKUP: Flush                     |                                  |

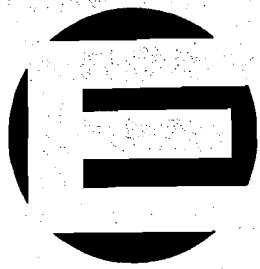
|           |          |         |
|-----------|----------|---------|
| ELEVATION | NORTHING | EASTING |
|-----------|----------|---------|

| Well Completion |        | Static Water Level | Moisture Content | PID Reading (ppm) | Penetration (blows/6") | Depth (feet) | Sample Recovery Interval | Soil Type | LITHOLOGY / DESCRIPTION  |
|-----------------|--------|--------------------|------------------|-------------------|------------------------|--------------|--------------------------|-----------|--|
| Backfill        | Casing |                    |                  |                   |                        |              |                          |           |  |
| Conc.           |        |                    |                  |                   |                        |              |                          |           | Asphalt (2")   |
|                 |        |                    |                  |                   |                        | 1            |                          |           | Air-knifed/vac-cleared to 5'   |
|                 |        |                    |                  |                   |                        | 2            |                          |           |  |
|                 |        |                    |                  |                   |                        | 3            |                          |           |  |
|                 |        |                    |                  |                   |                        | 4            |                          |           |  |
|                 |        |                    |                  |                   |                        | 5            |                          | SM        | Sandy SILT; grey/mottled, 10-15% fine to medium sand, fine to medium gravel, moderate plasticity, dense, moist           |
|                 |        |                    | Moist            | 0.0               | 3                      | 4            |                          |           |  |
|                 |        |                    |                  |                   |                        | 6            |                          |           | (as above, gravel increasing)  |
|                 |        |                    | Moist            | 1.9               | 3                      | 7            |                          |           |  |
|                 |        |                    |                  |                   |                        | 8            |                          |           | (as above, increasing plasticity, sand decreasing, 5-10% clay, bottom in wood debris)                                    |
|                 |        |                    | Moist            | 5.2               | 4                      | 8            |                          |           |  |
|                 |        |                    |                  |                   |                        | 9            |                          |           |  |
|                 |        |                    | Moist            | 143               | 7                      | 10           |                          | WDFill    | Wood debris/Brick; ash fragments, grey, grades to fine sandy silt, low plasticity, dense, moist                          |
|                 |        |                    |                  |                   |                        | 11           |                          | SM        | (as above, grades to silty sand, grey, 5-15% silt, fine to coarse sand, with brick fragments, loose, wet, visible sheen) |
|                 |        | 11:40<br>6/14/05   | Wet              | 244               | 7                      | 12           |                          | SM        | Silty SAND; grey, fine to coarse sand, 5-10% silt, with fine to coarse gravel, loose, wet                                |
|                 |        |                    | Wet              | 205               | 2                      | 13           |                          |           | (as above, silt increasing to 10-15%, with gravel, wet, visible sheen)   |
|                 |        |                    | Wet              | 270               | 2                      | 14           |                          |           |  |
|                 |        |                    | Wet              | 9.0               | 3                      | 15           |                          |           | Silty SAND; grey, fine to medium sand, 10-15% silt, with fine to coarse gravel, loose, wet                               |
|                 |        |                    | Wet              | 52                | 8                      | 17           |                          | WDFill    | Wood/PEAT with cobble  |
|                 |        |                    | Wet              | 4.2               | 12                     | 18           |                          | WDFill    | Wood debris  |
|                 |        |                    |                  |                   | 8                      | 19           |                          |           |  |
|                 |        |                    |                  |                   |                        | 20           |                          |           | BOTTOM OF HOLE @ 20'   |
|                 |        |                    |                  |                   |                        | 21           |                          |           |  |
|                 |        |                    |                  |                   |                        | 22           |                          |           |  |

**APPENDIX B**

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**WASTE DISPOSAL DOCUMENTATION**



ENVIROTECH  
SYSTEMS INCORPORATED

### UST CORRECTIVE ACTION CERTIFICATION

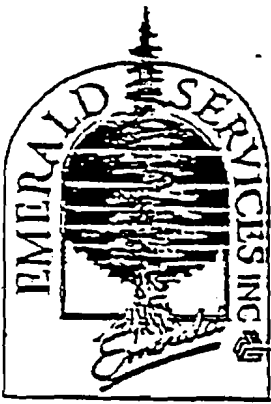
I certify that the petroleum contaminated debris and media that fail the test for Toxicity Characteristic for waste codes D018 through D043 is excluded from the definition of hazardous waste under 40 CFR Part 261.4 (b)(10) and, if applicable, under the Dangerous Waste Regulations of Washington State according to WAC 173-303-071 (3)(t), and that this site is subject to the corrective action regulations under 40 CFR Part 280.

King W. Eckert  
Generator's Name

33409  
Shipping Document #

[Signature]  
Generator's Signature

6.30.05  
Date



www.emerald.nw.com

- Recycling & Recovery
- Marine & Industrial Cleaning
- Recycled Products
- Waste Treatment & Disposal
- Automotive Fluids Management
- Construction Services
- Transportation Services
- Vacuum Truck Services
- Portable Storage

### Generator Non-Hazardous Waste Certification

As Generator, I hereby declare that the contents of the consignment are fully and accurately described on the accompanied shipping document by proper DOT shipping name and are classified, packaged, marked and labeled and are in all respects in proper condition for transport by highway according to 49 CFR. I further declare that this material is not regulated as a hazardous or dangerous waste nor has been mixed with any hazardous or dangerous waste regulated under WAC 175-303, 40 CFR Part 261, nor does this material contain any detectable quantity of Polychlorinated Biphenyls, unless otherwise stated. Generator agrees to indemnify and hold harmless Emerald Services Inc or its subsidiary harmless for any damages, costs, attorney and expert fees, rising from or in any way related to a breach of the above certification.

Generator Signature [Signature] Date 6.30.05

Shipping Document # 33409

Your Partner for Recycling and Environmental Services

Corporate Offices: 9010 E. Marginal Way So., Suite 200 • Seattle, WA 98108 • (206) 852-3530 • 1-828-832-3033 • Fax (206) 832-3030



NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

WAH000015289

Manifest Doc. No.

33408

2. Page 1

of 1

3. Generator's Name and Mailing Address

CONDIC PHILIPS  
1144 EASTLAKE AVE E, STE 201  
SEATTLE WA 98109

SITE ADDRESS:

COP 255353  
600 WESTLAKE AVENUE NORTH  
SEATTLE WA 98109

4. Generator's Phone (

206-706-2341

~~206-706-2341~~ KIPP ECKERT

5. Transporter 1 Company Name

ENVIROTECH SYSTEMS, INC.

6. US EPA ID Number

WAH000012450

A. Transporter's Phone

(206) 363-9000

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

COLUMBIA RIDGE LANDFILL  
18177 CEDAR SPRINGS LANE  
ARLINGTON OR 97812

10. US EPA ID Number

ORD987173457

C. Facility's Phone

5034937834

11. Waste Shipping Name and Description

12. Containers

No. Type

13. Total

Quantity

14. Unit

Wt/Vol

a. MATERIAL NOT REGULATED BY DOT  
(10W SOIL)

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

CRL# ESH05-167-17-SOIL , X004

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY INFORMATION CONTACT (206) 363-9000 OR (425) 771-0452.  
"Shippers Certification per 49CFR 172.204 - This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Signature in box 16 of this manifest constitutes certification of this statement by the shipper."

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Kipp W. Eckert

Signature

*[Signature]*

Month Day Year

06 30 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

**STRAIGHT BILL OF LADING - SHORT FORM - Original - Not Negotiable**

Shipper's No. \_\_\_\_\_

(Name of Carrier) ENVIROTECH SYSTEMS, INC. SCAC. \_\_\_\_\_ Carrier's No. 33412

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at SEATTLE, WA date 6/23/2005 from CONOCO PHILIPS CO. / COP255353

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own vessel or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party in any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written herein contained, (As specified in Appendix B to Plan 1005) which are hereby agreed to by the shipper and accepted for himself and his assignee.

Consigned to \_\_\_\_\_ (Mail or street address of consignee - For purposes of notification only.)

Destination EMERALD PETROLEUM SERVICES State WA County \_\_\_\_\_ Zip 98134 Delivery Address\* 1500 AIRPORT WAY SOUTH

Route SEATTLE WA 98134 (\*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier \_\_\_\_\_ Car or Vehicle Initials \_\_\_\_\_ No. \_\_\_\_\_

| Number of Packages                        | Description of articles, special marks, and exceptions          | *Weight (Sub. to correction)  | Class or rate | Check column | Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:<br>The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. |
|---|---|---|---------------|--------------|--|
| 17  | 55 GAL DMS MATERIAL NOT REGULATED BY O.D.T. (DOW WATER) #302905 |   |               |              | (Signature of consignor)   |
|   |   |   |               |              | If charges are to be prepaid, write or stamp here, "To be Prepaid".  |
|   |   |   |               |              | Received \$ _____ to apply in prepayment of the charges on the property described herein.  |
|   |   |   |               |              | Agent or Cashier   |
|   |   |   |               |              | Per _____ (The signature here acknowledges only the amount prepaid.)   |
|   |   |   |               |              | Charges Advanced: \$ _____   |
| Collect On Delivery and remit to \$ _____ |   | C.O.D. Charge to be paid by Shipper <input type="checkbox"/> Consignee <input type="checkbox"/> |               |              |  |

\*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".  
Note: - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.  
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per \_\_\_\_\_

Shipper: CONOCO PHILIPS CO. Agent: ENVIROTECH SYSTEMS, INC  
Per: [Signature] Date: 6-30-05 Per: \_\_\_\_\_ Date: \_\_\_\_\_

Permanent post-office address of shipper  
FORM NO. 1 BLC-Q3 (Rev. 8/95)

1

PAGE 03

ENVIROTECH

425-513-5833

10:26

06/30/2005

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**ENVIROTECH SYSTEMS, INC.**

**WASTE PRODUCT QUESTIONNAIRE**

3801 - 121st STREET SW  
 LYNNWOOD, WA 98037  
 TELEPHONE: (206) 363-9000 FAX: (425) 513-5839

PROFILE ESI WPQ 05-167-17-WATER

GENERATOR CDP 255323  
 NAME: **KIPP ECKERT / CONOCO PHILLIPS**  
 SITE: 600 WESTLAKE AVENUE NORTH  
 ADDRESS: SEATTLE, WA 98109

INVOICE TO: DELTA ENVIRON. CONSULTANTS  
 ADDRESS: 4008 - 148TH AVENUE NE  
 REDMOND, WA 98052

DATE: 6/22/2005  
 SIC CODE: 44711  
 GEN EPA ID: WAH000015289  
 CONTACT: TENA SEEDS  
 PHONE: 800-477-7411

**WASTE PRODUCT DESCRIPTION AND CHARACTERISTICS**

WASTE PRODUCT NAME: IDW WATER - UST  
 PROCESS GENERATING WASTE: SITE INVESTIGATION

SOURCE:  
 FORM:

|  |   |   |   |
|--|---|---|---|
| <p><b>ODOR</b></p> <p><input checked="" type="radio"/> NONE <input type="radio"/> MILD <input type="radio"/> STRONG</p> <p>DESCRIBE:</p>   | <p><b>COLOR AND CLARITY</b></p> <p>COLOR: <u>CLEAR</u></p> <p>CLARITY:</p>  | <p><b>PHYSICAL STATE AT 70F</b></p> <p><input type="radio"/> SOLID <input type="radio"/> SLUDGE<br/> <input checked="" type="radio"/> LIQUID <input type="radio"/> POWDER</p> <p>AVERAGE CONSISTENCY:</p> | <p><b>TOXIC CATEGORIES PRESENT</b></p> <p>WDOECONC:<br/>                 WEIGHT:<br/>                 TOXICCAT:</p>   |
| <p><b>LAYERS</b></p> <p><input type="radio"/> MULTI-LAYERED<br/> <input type="radio"/> BI-LAYERED<br/> <input checked="" type="radio"/> HOMOGENOUS</p> <p>FREE LIQUIDS: <u>100</u></p> | <p><b>DH</b></p> <p><input type="radio"/> &lt;= 2 <input type="radio"/> &gt;= 12.5<br/> <input type="radio"/> 2 - 4 <input type="radio"/> EXACT:<br/> <input checked="" type="radio"/> 4.1 - 10</p> | <p><b>DENSITY OR SPECIFIC GRAVITY</b></p> <p><input checked="" type="radio"/> LIQUID <input type="radio"/> SOLID</p> <p>lbs/gal<br/>                 lbs/ft3</p>  | <p><b>FLASH POINT</b></p> <p><input type="radio"/> &lt; 73 F <input checked="" type="radio"/> &gt; 200 F <input type="checkbox"/> CC <input type="checkbox"/> EPA<br/> <input type="radio"/> 73 - 141 F <input type="radio"/> NO FLASH <input type="checkbox"/> OC <input type="checkbox"/> DOT<br/> <input type="radio"/> 142 - 199 F <input type="radio"/> EXACT:</p> |

**CONSTITUENTS**

**CHEMICAL COMPOSITION (ACCOUNT FOR 100% OF TOTAL)**

IDW WATER - UST 100%

**CHEMICAL NATURE**

- I  
 O  
 I/O

SEE ANALYTICAL \_\_\_\_\_  
 NEED UST CERT SIGNED \_\_\_\_\_

**METALS (PPM)**

- TOTAL  EPA TCLP  
 GEN KNOWLEDGE

ARSENIC (As) \_\_\_\_\_  
 BARIUM (Ba) \_\_\_\_\_  
 CADMIUM (Cd) \_\_\_\_\_  
 CHROMIUM (Cr) \_\_\_\_\_  
 COPPER (Cu) \_\_\_\_\_  
 LEAD (Pb) \_\_\_\_\_  
 MERCURY (Hg) \_\_\_\_\_  
 NICKEL (Ni) \_\_\_\_\_  
 SELENIUM (Se) \_\_\_\_\_  
 SILVER (Ag) \_\_\_\_\_  
 ZINC (Zn) \_\_\_\_\_  
 HEXCHROME \_\_\_\_\_  
 OTHER \_\_\_\_\_

**GENERATOR HAS PROVIDED THE FOLLOWING**

- SAMPLE  MSDS  WASTE ANALYSIS

**SHIPPING INSTRUCTIONS**

IS THIS A DOT HAZARDOUS MATERIAL  
 YES  NO

DOT RQ \_\_\_\_\_  
 BULK LIQUID:   
 BULK SOLID:   
 DRUM/CONTAINER TYPE: UN1A2 55 GAL DM  
 VOLUME: 200 DRUMS

RCRA HAZ WASTE  EXEMPT WASTE   
 STATE ONLY WASTE  TSCA

**WASHINGTON STATE DESIGNATION**

- EHW  EXEMPT  DW

**WASTE CODES**

US EPA WASTE CODE \_\_\_\_\_  
 WA DOE WASTE CODES \_\_\_\_\_  
 CA WASTE CODES \_\_\_\_\_  
 OR WASTE CODES \_\_\_\_\_  
 SUBJECT TO LAND DISPOSAL RESTRICTIONS

**US DOT DESCRIPTION**

PROPER SHIPPING NAME: MATERIAL NOT REGULATED BY DOT

ADDITIONAL DESCRIPTION: (IDW WATER)

HAZARD CLASS: \_\_\_\_\_ DOT ID NUMBER: \_\_\_\_\_ PACKING GROUP NUMBER: \_\_\_\_\_

**GENERATOR CERTIFICATION STATEMENT**

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS DOCUMENT AND THOSE ATTACHED HERETO ARE TRUE AND CORRECT. ALL WASTE TENDERED UNDER THIS WASTE PROFILE SHALL CONFORM TO THE SPECIFICATIONS ABOVE. TO THE BEST OF MY KNOWLEDGE, ALL KNOWN AND SUSPECTED HAZARDOUS COMPONENTS (40 CFR 261.268) OF THIS WASTE STREAM HAVE BEEN IDENTIFIED ABOVE.

SIGNATURE [Signature] TITLE Site Manager DATE 6-30-05

THE UNDERSIGNED CERTIFIES THAT HE/SHE OBTAINED A REPRESENTATIVE SAMPLE OF THE WASTE MATERIAL DESCRIBED ABOVE, AND THAT THE FOLLOWING REPRESENTATIONS ARE TRUE AND CORRECT.

SAMPLING METHOD: \_\_\_\_\_ SOURCE OF MATERIAL SAMPLED: \_\_\_\_\_ SAMPLE QUANTITY: \_\_\_\_\_ NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

ENVIROTECH SYSTEMS, INC.

3801 - 121st STREET SW  
LYNNWOOD, WA 98037  
TELEPHONE: (206) 363-9000 FAX: (425) 513-5839

WASTE PRODUCT QUESTIONNAIRE

PROFILE ESI WPK 05-167-17-SOIL

GENERATOR QOP 265363  
NAME: KIPP ECKERT/ CONOCO PHILLIPS  
SITE 600 WESTLAKE AVENUE NORTH  
ADDRESS: SEATTLE, WA 98109

INVOICE TO: DELTA ENVIRON. CONSULTANTS  
ADDRESS: 4006 - 148TH AVENUE NE  
REDMOND, WA 98052

DATE: 6/22/2005  
SIC CODE:  
GEN EPA ID: WAH000015289  
CONTACT: TENA SEEDS  
PHONE: 800-477-7411

WASTE PRODUCT DESCRIPTION AND OTHER CHARACTERISTICS

WASTE PRODUCT NAME: IDW SOIL - UST  
PROCESS GENERATING WASTE: SITE INVESTIGATION

SOURCE:  
FORM:

|   |  |   |  |
|---|--|---|--|
| <b>ODOR</b><br><input checked="" type="radio"/> NONE <input type="radio"/> MILD <input type="radio"/> STRONG<br>DESCRIBE:   | <b>COLOR AND CLARITY</b><br>COLOR: <u>BROWN</u><br>CLARITY:  | <b>PHYSICAL STATE AT TIME</b><br><input checked="" type="radio"/> SOLID <input type="radio"/> SLUDGE<br><input type="radio"/> LIQUID <input type="radio"/> POWDER<br>AVERAGE CONSISTENCY: | <b>TOXIC CATEGORIES PRESENT</b><br>WDOE CONC:<br>WEIGHT:<br>TOXIC CAT:   |
| <b>LAYERS</b><br><input type="radio"/> MULTI-LAYERED<br><input type="radio"/> BI-LAYERED<br><input checked="" type="radio"/> HOMOGENOUS<br>FREE LIQUIDS: <u>0</u> | <b>pH</b><br><input type="radio"/> <= 2 <input type="radio"/> >= 12.4<br><input type="radio"/> 2-4 <input type="radio"/> EXACT:<br><input checked="" type="radio"/> 4.1 - 10 | <b>DENSITY OR SPECIFIC GRAVITY</b><br><input type="radio"/> LIQUID lbs/gal<br><input checked="" type="radio"/> SOLID lbs/ft3  | <b>FLASH POINT</b><br><input type="radio"/> < 73 F <input type="radio"/> > 200 F <input type="checkbox"/> CC <input type="checkbox"/> EPA<br><input type="radio"/> 73 - 141 F <input checked="" type="radio"/> NO FLASH <input type="checkbox"/> CC <input type="checkbox"/> DOT<br><input type="radio"/> 142 - 199 F <input type="radio"/> EXACT: |

**CONSTITUENTS**  
CHEMICAL COMPOSITION (ACCOUNT FOR 100% OF TOTAL) %

|                                      |     |
|--------------------------------------|-----|
| IDW SOIL - UST VIRGIN GASOLINE       | 100 |
| SEE ANALYTICAL                       |     |
| CHEMICAL NATURE                      |     |
| <input type="radio"/> I              |     |
| <input type="radio"/> O              |     |
| <input checked="" type="radio"/> I/O |     |

**METALS (PPM)**

TOTAL  EPA TCLP  
 GEN KNOWLEDGE

|               |    |
|---------------|----|
| ARSENIC (As)  |    |
| BARIIUM (Ba)  |    |
| CADMIUM (Cd)  |    |
| CHROMIUM (Cr) |    |
| COPPER (Cu)   |    |
| LEAD (Pb)     | <1 |
| MERCURY (Hg)  |    |
| NICKEL (Ni)   |    |
| SELENIUM (Se) |    |
| SILVER (Ag)   |    |
| ZINC (Zn)     |    |
| HEXCHROME     |    |
| OTHER         |    |

GENERATOR HAS PROVIDED THE FOLLOWING  
 SAMPLE  MSDS  WASTE ANALYSIS

**SHIPPING INSTRUCTIONS**

IS THIS A DOT HAZARDOUS MATERIAL  
 YES  NO

DOT RD  
BULK LIQUID:   
BULK SOLID:   
DRUM/CONTAINER TYPE: UN1A2 55 GAL DM  
VOLUME:

RCRA HAZ WASTE  EXEMPT WASTE   
STATE ONLY WASTE  TSCA

WASHINGTON STATE DESIGNATION  
 EHW  EXEMPT  DW

**WASTE CODES**

US EPA WASTE CODE  
WA DOE WASTE CODES  
CA WASTE CODES  
OR WASTE CODES X004  
SUBJECT TO LAND DISPOSAL RESTRICTIONS

US DOT DESCRIPTION

PROPER SHIPPING NAME: MATERIAL NOT REGULATED BY DOT  
ADDITIONAL DESCRIPTION: (IDW SOIL)  
HAZARD CLASS: DOT ID NUMBER: PACKING GROUP NUMBER:

GENERATOR CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS DOCUMENT AND THOSE ATTACHED HERETO ARE TRUE AND CORRECT. ALL WASTE TENDERED UNDER THIS WASTE PROFILE SHALL CONFORM TO THE SPECIFICATIONS ABOVE. TO THE BEST OF MY KNOWLEDGE, ALL KNOWN AND SUSPECTED HAZARDOUS COMPONENTS (40 CFR 261.268) OF THIS WASTE STREAM HAVE BEEN IDENTIFIED ABOVE.

SIGNATURE: *[Signature]* TITLE: Site Manager DATE: 6-30-05

THE UNDERSIGNED CERTIFIES THAT HE/SHE OBTAINED A REPRESENTATIVE SAMPLE OF THE WASTE MATERIAL DESCRIBED ABOVE, AND THAT THE FOLLOWING REPRESENTATIONS ARE TRUE AND CORRECT.  
SAMPLING METHOD: SOURCE OF MATERIAL SAMPLED: SAMPLE QUANTITY: NAME: DATE:

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **WAH000015289** Manifest Doc. No. **33498** 2. Page 1 of 1

Generator's Name and Mailing Address  
**CONCORD PHILLIPS**  
1144 EASTLAKE AVE E, STE 201  
SEATTLE WA 98109  
Generator's Phone ( **206-706-2341** )  
SITE ADDRESS: **COP 256363**  
600 WESTLAKE AVENUE NORTH  
SEATTLE WA 98109  
**EMILIE KIPP ECKERT**

Transporter 1 Company Name **Tr. State Mo for Transp** US EPA ID Number **M0009** A. Transporter's Phone **(800) 234-8768**  
**ENVIROTECH SYSTEMS, INC. g/ Inc** **WAH000012450** **3038998 (206) 383-0000**

Transporter 2 Company Name **ENVIROTECH Systems Inc** B. US EPA ID Number **WAH000012450** B. Transporter's Phone **(800) 234-8768**

Designated Facility Name and Site Address  
**COLUMBIA RIDGE LANDFILL**  
18177 CEDAR SPRINGS LANE  
ARLINGTON OR 97812  
10. US EPA ID Number **ORD987173457**  
C. Facility's Phone **5034937834**

| 1. Waste Shipping Name and Description                    | 12. Containers |           | 13. Total Quantity | 14. Unit Wt/Vol |
|---|----------------|-----------|--------------------|-----------------|
|   | No.            | Type      |                    |                 |
| <b>MATERIAL NOT REGULATED BY DOT</b><br><b>(DOW SOIL)</b> | <b>0.28</b>    | <b>DM</b> | <b>200.00</b>      | <b>P</b>        |
|   |                |           |                    |                 |
|   |                |           |                    |                 |
|   |                |           |                    |                 |

D. Additional Descriptions for Materials Listed Above  
**CRL# v ESH05-167-17-SOIL .X004**  
**2235 VC**  
E. Handling Codes for Wastes Listed Above

5. Special Handling Instructions and Additional Information  
**EMERGENCY INFORMATION CONTACT (206) 383-8000 OR (425) 771-0452.**  
"Shippers Certification per 49CFR 172.204 - This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Signature in box 16 of this manifest constitutes certification of this statement by the shipper."

1. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.  
Printed/Typed Name **Wiggo W. Eckert** Signature **[Signature]** Month Day Year **10 6 30 05**

1. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name **NONA HARTER** Signature **[Signature]** Month Day Year **10 7 28 05**

1. Transporter 2 Acknowledgement of Receipt of Materials  
Printed/Typed Name **Steve Thornton** Signature **[Signature]** Month Day Year **10 7 01 05**

1. Discrepancy Indication Space  
2. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.  
Printed/Typed Name \_\_\_\_\_ Signature \_\_\_\_\_ Month Day Year \_\_\_\_\_

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

**FORM HAZARDOUS WASTE MANIFEST**  
(Continuation Sheet)

21. Generator's US EPA ID No.

Manifest Document No.

22. Page

Information in the shaded areas is not required by Federal law.

WA 4000015289 33496

2 of 2

Generator's Name

CONOCO PHILIPS  
1144 Eastlake Ave E Ste 201  
Seattle WA 98109

L. State Manifest Document Number

M. State Generator's ID

Carrier 3 Company Name

25. US EPA ID Number

N. State Transporter's ID

State Motor Transit Co

MO 0095038998

O. Transporter's Phone

(800) 231-8767

Carrier Company Name

27. US EPA ID Number

P. State Transporter's ID

Q. Transporter's Phone

Waste Description (Including Proper Shipping Name, Hazard Class, and ID Number)

29. Containers  
No Type

30. Total  
Quantity

31. Unit  
Wt/Vol

H. Waste No.

*Transport Only*

Special Descriptions for Materials Listed Above

T. Handling Codes for Wastes Listed Above

Special Handling Instructions and Additional Information

Carrier Acknowledgement of Receipt of Materials

Date

Typed Name

Signature

Month Date Year

Carrier Acknowledgement of Receipt of Materials

Date

Typed Name

Signature

Month Date Year

Agency Indication Space

**THIS MEMORANDUM** is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. \_\_\_\_\_

(Name of Carrier) ENVIROTECH SYSTEMS, INC.

SCAC. \_\_\_\_\_

Carrier's No. 33412

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at SEATTLE WA date 7/1/05 from CONOCO PHILLIPS CO. / 000255252

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to \_\_\_\_\_ (Mail or street address of consignee - For purposes of notification only.)

EMERALD PETROLEUM SERVICES 1500 AIRPORT WAY SOUTH

Destination SEATTLE State WA County \_\_\_\_\_ Zip 98154 Delivery Address\* \_\_\_\_\_

Route \_\_\_\_\_ (\*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier \_\_\_\_\_ Car or Vehicle Initials \_\_\_\_\_ No. \_\_\_\_\_

| Number of Packages | Description of articles, special marks, and exceptions                 | *Weight (Sub. to correction) | Class or rate | Check column | Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:<br>The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.<br><br>(Signature of consignor)<br><br>If charges are to be prepaid, write or stamp here, "To Be Prepaid".<br><br>Received \$ _____ to apply in prepayment of the charges on the property described hereon.<br><br>Agent or Cashier<br><br>Per: _____ (The signature here acknowledges only the amount prepaid.)<br><br>Charges Advanced: _____ |
|--------------------|--|------------------------------|---------------|--------------|--|
| <u>18 X</u>        | <u>55 GAL DMS MATERIAL NOT REGULATED BY D.O.T. (DOW WATER) #000005</u> | <u>990 GALLONS</u>           |               |              |  |
|                    |  |                              |               |              |  |
|                    |  |                              |               |              |  |
|                    |  |                              |               |              |  |
|                    | <u>RCVD EMERALD PETROLEUM SERVICES: DATE: 7/1/05</u>                   |                              |               |              |  |

Collect On Delivery and remit to \$ \_\_\_\_\_ C.O.D. Charge to be paid by Shipper  Consignee

\*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight". Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

HM EMERGENCY RESPONSE TELEPHONE NUMBER (9172.604)

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per \_\_\_\_\_

Shipper: CONOCO PHILLIPS CO. Agent: ENVIROTECH SYSTEMS, INC.  
Per: [Signature] Date: 7-1-05 Per: [Signature] Date: 7/1/05

Permanent post-office address of shipper  
FORM NO. 1 BLC-Q3 (Rev. 8/95)

3

**APPENDIX C**

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**SOIL ANALYTICAL LABORATORY REPORTS AND  
CHAIN-OF-CUSTODY DOCUMENTATION**





# STL

STL Seattle  
5755 8<sup>th</sup> Street East  
Tacoma, WA 98424

Tel: 253 922 2310  
Fax: 253 922 5047  
[www.stl-inc.com](http://www.stl-inc.com)

## TRANSMITTAL MEMORANDUM

DATE: June 20, 2005

TO: Eric Larsen  
Delta Environmental  
17720 NE 65th Street Ste 201  
Redmond, WA 98052

PROJECT: WA255-3510-1/255353 Seattle

REPORT NUMBER: 128260

TOTAL NUMBER OF PAGES: \_\_\_\_\_

Enclosed are the test results for sixteen samples received at STL Seattle on June 8, 2005. NWTPH-Gx and volatile organics analysis was performed at STL Sacramento.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,



Tom Coyner  
Project Manager

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STL Seattle is a part of Severn Trent Laboratories, Inc.

*This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-922-2310 and destroy this report immediately.*

00001

# STL Seattle

## Sample Identification:

| <u>Lab. No.</u> | <u>Client ID</u> | <u>Date/Time Sampled</u> | <u>Matrix</u> |
|-----------------|------------------|--------------------------|---------------|
| 128260-1        | SB-1-5           | 06-07-05 09:03           | solid         |
| 128260-2        | SB-1-10          | 06-07-05 09:20           | solid         |
| 128260-3        | SB-1-15          | 06-07-05 09:45           | solid         |
| 128260-4        | SB-1-20          | 06-07-05 09:55           | solid         |
| 128260-5        | SB-4-5           | 06-07-05 11:38           | solid         |
| 128260-6        | SB-4-10          | 06-07-05 11:57           | solid         |
| 128260-7        | SB-4-15          | 06-07-05 12:20           | solid         |
| 128260-8        | SB-4-20          | 06-07-05 12:32           | solid         |
| 128260-9        | SB-5-5           | 06-07-05 13:36           | solid         |
| 128260-10       | SB-5-10          | 06-07-05 13:51           | solid         |
| 128260-11       | SB-5-15          | 06-07-05 14:10           | solid         |
| 128260-12       | SB-5-20          | 06-07-05 14:25           | solid         |
| 128260-13       | MW-54-5          | 06-07-05 15:05           | solid         |
| 128260-14       | MW-54-10         | 06-07-05 15:15           | solid         |
| 128260-15       | MW-54-15         | 06-07-05 15:38           | solid         |
| 128260-16       | MW-54-20         | 06-07-05 15:50           | solid         |

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# STL Seattle

## Sample Identification:

| <u>Lab. No.</u> | <u>Client ID</u> | <u>Date/Time Sampled</u> | <u>Matrix</u> |
|-----------------|------------------|--------------------------|---------------|
| 128260-1        | SB-1-5           | 06-07-05 09:03           | solid         |
| 128260-2        | SB-1-10          | 06-07-05 09:20           | solid         |
| 128260-3        | SB-1-15          | 06-07-05 09:45           | solid         |
| 128260-4        | SB-1-20          | 06-07-05 09:55           | solid         |
| 128260-5        | SB-4-5           | 06-07-05 11:38           | solid         |
| 128260-6        | SB-4-10          | 06-07-05 11:57           | solid         |
| 128260-7        | SB-4-15          | 06-07-05 12:20           | solid         |
| 128260-8        | SB-4-20          | 06-07-05 12:32           | solid         |
| 128260-9        | SB-5-5           | 06-07-05 13:36           | solid         |
| 128260-10       | SB-5-10          | 06-07-05 13:51           | solid         |
| 128260-11       | SB-5-15          | 06-07-05 14:10           | solid         |
| 128260-12       | SB-5-20          | 06-07-05 14:25           | solid         |
| 128260-13       | MW-54-5          | 06-07-05 15:05           | solid         |
| 128260-14       | MW-54-10         | 06-07-05 15:15           | solid         |
| 128260-15       | MW-54-15         | 06-07-05 15:38           | solid         |
| 128260-16       | MW-54-20         | 06-07-05 15:50           | solid         |

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# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-1-5              |
| Lab ID:         | 128260-01           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 88.93               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 59.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.1 |       |
| Motor Oil | ND             | 52.1 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-1-10             |
| Lab ID:         | 128260-02           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 77.75               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 66.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 113            | 28.9 | X1    |
| Motor Oil | ND             | 57.8 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-1-15             |
| Lab ID:         | 128260-03           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 83.01               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 68.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.6 |       |
| Motor Oil | ND             | 53.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-1-20             |
| Lab ID:         | 128260-04           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 24.82               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 34.2       | X9    | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 97.2 |       |
| Motor Oil | ND             | 194  |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-4-5              |
| Lab ID:         | 128260-05           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 75.28               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 69.1       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 29.3 |       |
| Motor Oil | ND             | 58.6 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-4-10             |
| Lab ID:         | 128260-06           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 23.1                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 53.6       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL  | Flags |
|-----------|----------------|-----|-------|
| #2 Diesel | 193            | 107 | X1    |
| Motor Oil | ND             | 215 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-4-15             |
| Lab ID:         | 128260-07           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 22.49               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 46.1       | X9    | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL  | Flags |
|-----------|----------------|-----|-------|
| #2 Diesel | ND             | 109 |       |
| Motor Oil | ND             | 219 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-4-20             |
| Lab ID:         | 128260-08           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 75.95               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 56.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.4 |       |
| Motor Oil | ND             | 56.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-5-5              |
| Lab ID:         | 128260-09           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 85.13               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 61.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.7 |       |
| Motor Oil | ND             | 57.5 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-5-10             |
| Lab ID:         | 128260-10           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 70.26               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 63.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 32.8 |       |
| Motor Oil | ND             | 65.7 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-5-15             |
| Lab ID:         | 128260-11           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 40.17               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 54.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 57.6 |       |
| Motor Oil | ND             | 115  |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-5-20             |
| Lab ID:         | 128260-12           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 80.3                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 78         |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.8 |       |
| Motor Oil | ND             | 57.5 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-54-5             |
| Lab ID:         | 128260-13           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 84.47               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 58.3       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 29.6 |       |
| Motor Oil | ND             | 59.1 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-54-10'           |
| Lab ID:         | 128260-14           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 83.51               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 61.5       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 29 |       |
| Motor Oil | ND             | 58 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-54-15            |
| Lab ID:         | 128260-15           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/9/2005            |
| % Solids        | 43.71               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 61.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 50.7 |       |
| Motor Oil | ND             | 101  |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-54-20            |
| Lab ID:         | 128260-16           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/9/2005            |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 80.37               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 67.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.1 |       |
| Motor Oil | ND             | 56.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-1-5              |
| Lab ID:         | 128260-01           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 88.93               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 13.9              | 0.539 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-1-10             |
| Lab ID:         | 128260-02           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 77.75               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 16.6              | 0.507 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-1-15             |
| Lab ID:         | 128260-03           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 83.01               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 10.8              | 0.508 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-1-20             |
| Lab ID:         | 128260-04           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 24.82               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 61.5              | 1.77 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-4-5              |
| Lab ID:         | 128260-05           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 75.28               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 9.5               | 0.662 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-4-10             |
| Lab ID:         | 128260-06           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 23.1                |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 107               | 2.06 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-4-15             |
| Lab ID:         | 128260-07           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 22.49               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 109               | 1.96 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-4-20             |
| Lab ID:         | 128260-08           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 75.95               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 3.59              | 0.557 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-5-5              |
| Lab ID:         | 128260-09           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 85.13               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 9.73              | 0.492 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-5-10             |
| Lab ID:         | 128260-10           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 70.26               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 79.3              | 0.598 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-5-15             |
| Lab ID:         | 128260-11           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 40.17               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 108               | 1.18 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-5-20             |
| Lab ID:         | 128260-12           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 80.3                |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 1.81              | 0.519 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-54-5             |
| Lab ID:         | 128260-13           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 84.47               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 91.5              | 0.556 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-54-10            |
| Lab ID:         | 128260-14           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 83.51               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 26.3              | 0.513 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-54-15            |
| Lab ID:         | 128260-15           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 43.71               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 94.1              | 1.06 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-54-20            |
| Lab ID:         | 128260-16           |
| Date Received:  | 6/8/2005            |
| Date Prepared:  | 6/8/2005            |
| Date Analyzed:  | 6/9/2005            |
| Dilution Factor | 10                  |
| % Solids        | 80.37               |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL    | Flags |
|---------|-------------------|-------|-------|
| Lead    | 2.01              | 0.507 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DS1484 |
| Date Received:  | -                     |
| Date Prepared:  | 6/9/2005              |
| Date Analyzed:  | 6/9/2005              |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 72.1       |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 25 |       |
| Motor Oil | ND             | 50 |       |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DS1484  
Date Prepared: 6/9/2005  
Date Analyzed: 6/9/2005  
QC Batch ID: DS1484

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD  | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|------|------|
| #2 Diesel     | 2.1                  | 500                  | 479               | 95.4      | 495                | 98.5       | 3.2  |      |
| Motor Oil     | 0                    | 500                  | 422               | 84.3      | 422                | 84.5       | 0.24 |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-1-5  
Lab ID: 128260-01  
Date Prepared: 6/9/2005  
Date Analyzed: 6/9/2005  
QC Batch ID: DS1484

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 0                     | 0                        | NC    |      |
| Motor Oil      | 0                     | 0                        | NC    |      |

# STL Seattle

## Duplicate Report

Client Sample ID: MW1-12.5  
Lab ID: 128241-03  
Date Prepared: 6/9/2005  
Date Analyzed: 6/9/2005  
QC Batch ID: DS1484

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| <b>Parameter Name</b> | <b>Sample Result (mg/kg)</b> | <b>Duplicate Result (mg/kg)</b> | <b>RPD %</b> | <b>Flag</b> |
|-----------------------|------------------------------|---------------------------------|--------------|-------------|
| #2 Diesel             | 0                            | 0                               | NC           |             |
| Motor Oil             | 0                            | 0                               | NC           |             |

# STL Seattle

|                  |                       |
|------------------|-----------------------|
| Lab ID:          | Method Blank - SP1301 |
| Date Received:   | -                     |
| Date Prepared:   | 6/8/2005              |
| Date Analyzed:   | 6/9/2005              |
| Dilution Factor: | 1                     |

## Metals by ICP-MS - USEPA Method 6020

Sample results are on an as received basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 0.05 |       |



# STL Seattle

## Matrix Spike Report

Client Sample ID: SB-1-5  
Lab ID: 128260-01  
Date Prepared: 6/8/2005  
Date Analyzed: 6/9/2005  
QC Batch ID: SP1301

### Metals by ICP-MS - USEPA Method 6020

| Parameter Name | Sample Result (mg/kg) | Spike Amount (mg/kg) | MS Result (mg/kg) | MS % Rec. | Flag |
|----------------|-----------------------|----------------------|-------------------|-----------|------|
| Lead           | 13.9                  | 97.7                 | 118               | 106       |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-1-5  
Lab ID: 128260-01  
Date Prepared: 6/8/2005  
Date Analyzed: 6/9/2005  
QC Batch ID: SP1301

### Metals by ICP-MS - USEPA Method 6020

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| Lead           | 14                    | 13                       | 7.4   |      |

**DATA QUALIFIERS AND ABBREVIATIONS**

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- C3: Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be  $\leq$  30%.
- C4: Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The original analysis was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- RL: Reporting Limit
- N: See analytical narrative
- ND: Not Detected
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be \_\_\_\_\_.
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.

**Client:** Conoco Phillips Co Delta Env.  
**Address:** 17720 NE 65th St. Suite 201  
**City:** Redmond  
**State:** WA  
**Zip Code:** 98052  
**Project Name and Location (State):** WA255-3510-1/255353 Seattle  
**Contract/Purchase Order/Quote No.:** WO # 1396 DELOID

**Project Manager:** Eric Larsen / elarsen@deltanenv.com  
**Telephone Number (Area Code)/Fax Number:** 425-558-0134  
**Site Contact:** Manager Kifley  
**Carrier/Waybill Number:** Tom Coyner

**Chain of Custody Number:** 16091  
**Page:** 2 of 2

**Lab Number:** 18860  
**Analysis (Attach list if more space is needed):** MWTPH-Dx w/sg cleanup (B2608)  
MWTPH-Dx  
BTEX+M+N (B2608)  
MWTPH-Dx  
MeOH

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date   | Time  | Matrix  |      |      |         | Containers & Preservatives |      |     |      |           |  | Special Instructions/<br>Conditions of Receipt |  |  |  |  |
|--|--------|-------|---------|------|------|---------|----------------------------|------|-----|------|-----------|--|--|--|--|--|--|
|  |        |       | Aqueous | Sed. | Soil | Unpres. | H2SO4                      | HNO3 | HCl | NaOH | ZnAc/NaOH |  |  |  |  |  |  |
| 3 MW-54-5  | 6-7-05 | 15:05 | X       |      |      |         |                            |      |     |      |           |  |  |  |  |  |  |
| 4 MW-54-10   | J      | 15:15 |         |      |      |         |                            |      |     |      |           |  |  |  |  |  |  |
| 5 MW-54-15   | J      | 15:38 |         |      |      |         |                            |      |     |      |           |  |  |  |  |  |  |
| 6 MW-54-20   | J      | 15:50 |         |      |      |         |                            |      |     |      |           |  |  |  |  |  |  |

**QC Requirements (Specify):**

**Cooler:**  Yes  No **Cooler Temp:** \_\_\_\_\_

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

**Sample Disposal:**  Disposal By Lab  Return To Client  Archive For \_\_\_\_\_ Months

**Turn Around Time Required (business days):**  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_

**1. Relinquished By:** *Eric Larsen* Date: 6-8-05 Time: 10:45  
**2. Relinquished By:** *Paul J. Patton* Date: 6/8/05 Time: 12:50  
**3. Relinquished By:** \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**Comments:** Please run Dx samples with acid/silica gel cleanup  
DISTRIBUTION: WHITE - Stays with the samples; CANARY - Returned to Client with Report; PINK - Field Copy

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.stl-inc.com

## Chain of Custody Record

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| Client<br><b>Conoco Phillips c/o Delta Env.</b>  |  | Project Manager<br><b>Eric Larsen / elarsen@deltaenv.com</b>   |  | Chain of Custody Number<br><b>16090</b>        |  |
| Address<br><b>17720 NE 65th St Suite 201</b>   |  | Telephone Number (Area Code)/Fax Number<br><b>425-558-0134</b> |  | Date<br><b>6-7-05</b>                          |  |
| City<br><b>Redmond</b>   |  | Site Contact<br><b>Manager Kifley</b>                          |  | Lab Number<br><b>18260</b>                     |  |
| State<br><b>WA</b>   |  | Lab Contact<br><b>Tom Coyner</b>                               |  | Page<br><b>1</b> of <b>2</b>                   |  |
| Zip Code<br><b>98052</b>   |  | Carrier/Waybill Number   |  | Analysis (Attach list if more space is needed) |  |
| Project Name and Location (State)<br><b>WA255-3510-1 / 255353 Seattle</b>                        |  | Containers & Preservatives                                     |  | Special Instructions/<br>Conditions of Receipt |  |
| Contract/Purchase Order/Quote No.<br><b>WO#: 1396 DELOIO</b>                                     |  | Matrix   |  |  |  |
| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) |  | Date   |  | Time   |  |
| SB-1-5   |  | 6-7-05   |  | 903  |  |
| SB-1-10  |  | 6-7-05   |  | 920  |  |
| SB-1-15  |  | 6-7-05   |  | 945  |  |
| SB-1-20  |  | 6-7-05   |  | 955  |  |
| SB-4-5   |  | 6-7-05   |  | 1138   |  |
| SB-4-10  |  | 6-7-05   |  | 1157   |  |
| SB-4-15  |  | 6-7-05   |  | 1220   |  |
| SB-4-20  |  | 6-7-05   |  | 1232   |  |
| SB-5-5   |  | 6-7-05   |  | 1336   |  |
| SB-5-10  |  | 6-7-05   |  | 1351   |  |
| SB-5-15  |  | 6-7-05   |  | 1410   |  |
| SB-5-20  |  | 6-7-05   |  | 1425   |  |

|   |  |   |  |  |  |
|---|--|---|--|--|--|
| Cooler<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |  | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |  | Sample Disposal<br><input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Archive For |  |
| Turn Around Time Required (business days)<br><input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days <input type="checkbox"/> 15 Days <input type="checkbox"/> Other |  | Disposal By Lab<br>Disposal For   |  | Months   |  |
| 1. Relinquished By<br><i>James E. Bank, Delta</i>   |  | 1. Received By<br><i>Rob Hunter</i>   |  | Date<br><i>6/8/05</i>  |  |
| 2. Relinquished By<br><i>James E. Bank, Delta</i>   |  | 2. Received By<br><i>KR</i>   |  | Date<br><i>6/8/05</i>  |  |
| 3. Relinquished By  |  | 3. Received By  |  | Date   |  |

Comments  
**Please see Dx samples with acid fumes get cleanup**  
DISCONTINUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy



**STL**

**STL Sacramento**  
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June 19, 2005

**STL SACRAMENTO PROJECT NUMBER: G5F090298**  
**PO/CONTRACT: 128260**

Tom Coyner  
STL Seattle  
5755 8th Street East  
Tacoma, WA 98424

Dear Mr. Coyner,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on June 9, 2005. These samples are associated with your 128260 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4402.

Sincerely,

A handwritten signature in black ink that reads "Jill Kellmann". The signature is written in a cursive, flowing style.

Jill Kellmann  
Project Manager

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Samples: 1 through 16

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Method Blank Report

Laboratory QC Reports

Raw Data Section

## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F090298

#### General Comments

The samples were received at 22° C. No cooling agents were included with the samples.

The percent moisture analysis was performed at STL Seattle. Results were provided to STL Sacramento for purposes of dry weight correction.

One vial was received for both the 8260 and TPH-G analysis. In order to be able to analyze for both tests, where possible, a 1.0ml aliquot of extract was spiked with appropriate surrogate and then appropriate dilutions made.

The analyst observed that some of the sample labels were obscured. It is possible that methanol was lost during the sampling process and came in contact with the label on the outside of the vial.

#### **SOLID, NWTPH-G**

Sample(s): 1 through 16

The samples were initially intended to be analyzed at STL Seattle. The surrogate trifluorotoluene (TFT) was field spiked into each sample. This surrogate is not used under standard operating procedures at STL Sacramento and, therefore, the instrumentation is not curved appropriately to quantitate results using surrogate TFT. For the NWTPH-Gas analysis, TFT was identified and subtracted from the area of quantitation. 4-Bromofluorobenzene (BFB) was spiked into an aliquot of the extract and is the reported surrogate.

Sample(s): 2, 11

Samples 2 and 11 had a percent recovery (%R) for the surrogate 4-Bromofluorobenzene greater than the upper control limit of 171% at 1530% and 221%, respectively. All other surrogate quality control components associated with these samples were in control. The elevated %R is attributed to matrix effects.

#### **SOLID, NWTPH-G and 8260-BTEX/MTBE/Naphthalene**

Sample(s): 1 through 16

Insufficient volume was available for a matrix spike/matrix spike duplicate (MS/MSD). A laboratory control sample/duplicate control sample (LCS/DCS) was prepared instead.



## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F090298

#### Sample(s): 3

Sample 3 had limited sample extract volume available for analysis. Sample 3 was initially analyzed at a ½ ml aliquot and 2X dilution, however, the data was rejected due to carryover from the previous high level sample. A second analysis was completed using only 200 uL at a 5X dilution due to the limited sample extract volume. This sample was reported at a 5X dilution.

#### Sample(s): 14

Sample 14 had limited sample extract volume available for analysis. The sample was analyzed at a ½ ml aliquot and 2X dilution. This run was acceptable and the data is reported from the 2X dilution.

#### **SOLID, 8260-Benzene only**

##### Sample(s) 1 through 16

Due to software limitations, the samples analyzed at 1X with a sample weight greater than 10g required the benzene reporting limit to be raised to 30 ug/kg (wet weight). Samples with sample weights less than 10g or requiring dilution have the reporting limits corrected to the actual sample weight. The software does not allow for sample reporting limits to be below the method blank reporting limit. Therefore, only the samples with a sample weight greater than 10g were impacted.

There were no other anomalies associated with this project.

**STL Sacramento Certifications/Accreditations**

| Certifying State | Certificate # | Certifying State   | Certificate # |
|------------------|---------------|--------------------|---------------|
| Alaska           | UST-055       | Oregon*            | CA 200005     |
| Arizona          | AZ0616        | Pennsylvania       | 68-1272       |
| Arkansas         | 04-067-0      | South Carolina     | 87014002      |
| California*      | 01119CA       | Texas              | TX-270-2004A  |
| Colorado         | NA            | Utah*              | QUAN1         |
| Connecticut      | PH-0691       | Virginia           | 00178         |
| Florida*         | E87570        | Washington         | C087          |
| Georgia          | 960           | West Virginia      | 9930C, 334    |
| Hawaii           | NA            | Wisconsin          | 998204680     |
| Louisiana*       | 01944         | NFESC              | NA            |
| Michigan         | 9947          | USACE              | NA            |
| Nevada           | CA44          | USDA Foreign Plant | 37-82605      |
| New Jersey*      | CA005         | USDA Foreign Soil  | S-46613       |
| New York*        | 11666         |                    |               |

\*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

**QC Parameter Definitions**

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary G5F090298

| <u>WO#</u> | <u>Sample #</u> | <u>Client Sample ID</u> | <u>Sampling Date</u> | <u>Received Date</u> |
|------------|-----------------|-------------------------|----------------------|----------------------|
| HC940      | 1               | SB-1-5                  | 6/7/2005 09:03 AM    | 6/9/2005 08:55 AM    |
| HC959      | 2               | SB-1-10                 | 6/7/2005 09:20 AM    | 6/9/2005 08:55 AM    |
| HC96C      | 3               | SB-1-15                 | 6/7/2005 09:45 AM    | 6/9/2005 08:55 AM    |
| HC96D      | 4               | SB-1-20                 | 6/7/2005 09:55 AM    | 6/9/2005 08:55 AM    |
| HC96E      | 5               | SB-4-5                  | 6/7/2005 11:38 AM    | 6/9/2005 08:55 AM    |
| HC96G      | 6               | SB-4-10                 | 6/7/2005 11:57 AM    | 6/9/2005 08:55 AM    |
| HC96J      | 7               | SB-4-15                 | 6/7/2005 12:20 PM    | 6/9/2005 08:55 AM    |
| HC96M      | 8               | SB-4-20                 | 6/7/2005 12:32 PM    | 6/9/2005 08:55 AM    |
| HC96N      | 9               | SB-5-5                  | 6/7/2005 01:36 PM    | 6/9/2005 08:55 AM    |
| HC96R      | 10              | SB-5-10                 | 6/7/2005 01:51 PM    | 6/9/2005 08:55 AM    |
| HC96V      | 11              | SB-5-15                 | 6/7/2005 02:10 PM    | 6/9/2005 08:55 AM    |
| HC96W      | 12              | SB-5-20                 | 6/7/2005 02:25 PM    | 6/9/2005 08:55 AM    |
| HC962      | 13              | MW-54-5                 | 6/7/2005 03:05 PM    | 6/9/2005 08:55 AM    |
| HC966      | 14              | MW-54-10                | 6/7/2005 03:15 PM    | 6/9/2005 08:55 AM    |
| HC97D      | 15              | MW-54-15                | 6/7/2005 03:38 PM    | 6/9/2005 08:55 AM    |
| HC97G      | 16              | MW-54-20                | 6/7/2005 03:50 PM    | 6/9/2005 08:55 AM    |

**Notes(s):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

STL Seattle  
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Client: STL-Seattle Project Manager: Tom Coyner Date: 6/8/05 Chain of Custody Number: 15592  
 Address: \_\_\_\_\_ Lab Number: \_\_\_\_\_ Page: 1 of 2  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Telephone Number (Area Code)/Fax Number: \_\_\_\_\_  
 Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_  
 Carrier/Waybill Number: \_\_\_\_\_

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date   | Time | Matrix |         |      |      |    | Containers & Preservatives |      |     |      |           | Analysis (Attach list if more space is needed) | Special Instructions/<br>Conditions of Receipt |  |
|--|--------|------|--------|---------|------|------|----|----------------------------|------|-----|------|-----------|--|--|--|
|  |        |      | Air    | Aqueous | Sed. | Soil | MS | H2SO4                      | HNO3 | HCl | NaOH | ZnAc/NaOH |  |  |  |
| SB-1-5   | 6/7/05 | 0903 |        |         | X    |      |    |                            |      |     |      |           |  |  |  |
| SB-1-10  |        | 0920 |        |         |      |      |    |                            |      |     |      |           |  |  |  |
| SB-1-15  |        | 0945 |        |         |      |      |    |                            |      |     |      |           |  |  |  |
| SB-1-20  |        | 0955 |        |         |      |      |    |                            |      |     |      |           |  |  |  |
| SB-4-5   |        | 1138 |        |         |      |      |    |                            |      |     |      |           |  |  |  |
| SB-4-10  |        | 1157 |        |         |      |      |    |                            |      |     |      |           |  |  |  |
| SB-4-15  |        | 1220 |        |         |      |      |    |                            |      |     |      |           |  |  |  |
| SB-4-20  |        | 1232 |        |         |      |      |    |                            |      |     |      |           |  |  |  |
| SB-5-5   |        | 1336 |        |         |      |      |    |                            |      |     |      |           |  |  |  |
| SB-5-10  |        | 1351 |        |         |      |      |    |                            |      |     |      |           |  |  |  |
| SB-5-15  |        | 1410 |        |         |      |      |    |                            |      |     |      |           |  |  |  |
| SB-5-20  |        | 1425 |        |         |      |      |    |                            |      |     |      |           |  |  |  |

RECEIVED IN GOOD CONDITION  
UNDER COC  
JUN 9 2005  
INI

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_  
 Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other ASAP  
 1. Relinquished By: VCB Date: 6/8/05 Time: 245P  
 2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 QC Requirements (Specify):  
 1. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Comments: \_\_\_\_\_

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**Chain of  
 Custody Record**

**SEVERN  
 TRENT  
 STL**

Client: STL-Seattle Project Manager: 6/8/05 Date: 6/8/05 Chain of Custody Number: 15593  
 Address: \_\_\_\_\_ Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Lab Number: \_\_\_\_\_ Page: 2 of 2  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_  
 Project Name and Location (State): \_\_\_\_\_ Carrier/Waybill Number: \_\_\_\_\_  
 Contract/Purchase Order/Quote No.: 128260

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date   | Time | Matrix |         |      |      |        | Containers & Preservatives |      |     |      |           | Analysis (Attach list if more space is needed) | Special Instructions/<br>Conditions of Receipt |  |
|--|--------|------|--------|---------|------|------|--------|----------------------------|------|-----|------|-----------|--|--|--|
|  |        |      | Air    | Aqueous | Sed. | Soil | Urease | H2SO4                      | HNO3 | HCl | NaOH | ZnAc/NaOH |  |  |  |
| MW-54-5  | 6/7/05 | 1505 |        |         | X    |      |        |                            |      |     |      |           | X  | NWPHGX   | RECEIVED IN GOOD CONDITION<br>UNDER COC<br>JUN 9 2005<br>[Signature] |
| MW-54-10   |        | 1515 |        |         | X    |      |        |                            |      |     |      |           | X  | MTOE   |  |
| MW-54-15   |        | 1538 |        |         | X    |      |        |                            |      |     |      |           | X  | BTEX   |  |
| MW-54-20   |        | 1550 |        |         | X    |      |        |                            |      |     |      |           | X  | Naphthalene                                    |  |

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_ Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Sample Disposal:  Return To Client  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other ASAP

1. Relinquished By: [Signature] Date: 6/8/05 Time: 2:45p  
 2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

QC Requirements (Specify):  
 1. Received By: [Signature] Date: 6/8/05 Time: [Signature]  
 2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: \_\_\_\_\_

CLIENT STL - Seattle PM JK LOG # 32027  
 LOT# (QUANTIMS ID) G5F090298 QUOTE# 05022 LOCATION VL

DATE RECEIVED 6/9/21 TIME RECEIVED 8:21

Initials AM Date 6/9/21

- DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
 CUSTODY SEAL #(S) N/A

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) 15592 15593

TEMPERATURE BLANK Observed: N/A Corrected: N/A

SAMPLE TEMPERATURE  
 Observed: 22 22 22 Average: 22 Corrected Average: 22

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION  METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A  
 SAMPLE RECEIVING WETCHEM  N/A  
 VOA-ENCORES  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: VOA via tightly packed no no ice  
around w/ samples paper in a box  
filled w/ bubble wrap

# SOLID, NWTPH-G

STL SEATTLE

Client Sample ID: SB-1-5

GC Volatiles

Lot-Sample #....: G5F090298-001    Work Order #....: HC9401AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received..: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date..: 06/09/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 11    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 7600                              | 5600                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 98                                | (39 - 171)                       |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-1-10

GC Volatiles

Lot-Sample #...: G5F090298-002    Work Order #...: HC9591AC    Matrix.....: SOLID  
Date Sampled...: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #...: 5164358  
Dilution Factor: 20  
% Moisture.....: 22    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 3600000                           | 130000                           | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 1530 *                            | (39 - 171)                       |              |

**NOTE(S) :**

\* Surrogate recovery is outside stated control limits.  
Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-1-15

GC Volatiles

Lot-Sample #....: G5F090298-003    Work Order #....: HC96C1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 5  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> |              |
|----------------------|-----------------|------------------|--------------|
|                      |                 | <u>LIMIT</u>     | <u>UNITS</u> |
| TPH (as Gasoline)    | ND              | 30000            | ug/kg        |
|                      |                 |                  |              |
| <u>SURROGATE</u>     | <u>PERCENT</u>  | <u>RECOVERY</u>  |              |
|                      | <u>RECOVERY</u> | <u>LIMITS</u>    |              |
| 4-Bromofluorobenzene | 102             | (39 - 171)       |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-1-20

GC Volatiles

Lot-Sample #....: G5F090298-004    Work Order #....: HC96D1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 75    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND              | 20000                            | ug/kg        |
|                      | PERCENT         | RECOVERY                         |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| 4-Bromofluorobenzene | 100             | (39 - 171)                       |              |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-4-5

GC Volatiles

Lot-Sample #....: G5F090298-005    Work Order #....: HC96E1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 25    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 9700                              | 6600                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 103                               | (39 - 171)                       |              |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-4-10

GC Volatiles

Lot-Sample #....: G5F090298-006    Work Order #....: HC96G1AC    Matrix.....: SOLID  
Date Sampled...: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 77    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 1200000                           | 22000                            | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 132                               | (39 - 171)                       |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-4-15

GC Volatiles

Lot-Sample #....: G5F090298-007    Work Order #....: HC96J1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 78    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 22000                            | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 97                                | (39 - 171)                       |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-4-20

GC Volatiles

Lot-Sample #....: G5F090298-008    Work Order #....: HC96M1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 24    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND              | 6600                             | ug/kg        |
|                      | PERCENT         | RECOVERY                         |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| 4-Bromofluorobenzene | 99              | (39 - 171)                       |              |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-5-5

GC Volatiles

Lot-Sample #....: G5F090298-009    Work Order #....: HC96N1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 21000                             | 5900                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 101                               | (39 - 171)                       |              |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-5-10

GC Volatiles

Lot-Sample #....: G5F090298-010    Work Order #....: HC96R1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 30    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 7100                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 93                                | (39 - 171)                       |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-5-15

GC Volatiles

Lot-Sample #....: G5F090298-011    Work Order #....: HC96V1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 60    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 72000                       | 12000                      | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 221 *                       | (39 - 171)                 |              |

**NOTE(S) :**

\* Surrogate recovery is outside stated control limits.  
Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-5-20

GC Volatiles

Lot-Sample #....: G5F090298-012    Work Order #....: HC96W1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 20    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 6200                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 97                                | (39 - 171)                       |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-54-5

GC Volatiles

Lot-Sample #....: G5F090298-013    Work Order #....: HC9621AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 37000                       | 5900                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 94                          | (39 - 171)                 |              |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-54-10

GC Volatiles

Lot-Sample #....: G5F090298-014    Work Order #....: HC9661AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 2  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 12000                            | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 97                                | (39 - 171)                       |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-54-15

GC Volatiles

Lot-Sample #....: G5F090298-015    Work Order #....: HC97D1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 56    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 12000                       | 11000                      | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 95                          | (39 - 171)                 |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-54-20

GC Volatiles

Lot-Sample #....: G5F090298-016    Work Order #....: HC97G1AC    Matrix.....: SOLID  
Date Sampled....: 06/07/05    Date Received...: 06/09/05  
Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
Prep Batch #....: 5164358  
Dilution Factor: 1  
% Moisture.....: 20    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 6200                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 92                                | (39 - 171)                       |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F090298

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 002            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 003            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 004            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 005            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 006            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 007            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 008            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 009            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 010            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 011            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 012            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 013            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 014            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 015            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |
| 016            | SOLID         | NWTPH NWTPH-Gx               |                          | 5164358                 |                |



METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G5F090298  
MB Lot-Sample #: G5F130000-358

Work Order #...: HDHCA1AA

Matrix.....: SOLID

Analysis Date...: 06/09/05  
Dilution Factor: 1

Prep Date.....: 06/09/05  
Prep Batch #...: 5164358

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>  |
|----------------------|-----------------------------------|----------------------------------|--------------|----------------|
| TPH (as Gasoline)    | ND                                | 5000                             | ug/kg        | NWTPH NWTPH-Gx |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |                |
| 4-Bromofluorobenzene | 92                                | (39 - 171)                       |              |                |

**NOTE(S) :**

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: G5F090298      Work Order #...: HDHCA1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F130000-358      HDHCA1AD-LCSD  
 Prep Date.....: 06/09/05      Analysis Date...: 06/09/05  
 Prep Batch #...: 5164358  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u>  |
|-------------------|-------------------------|------------------------|------------|-------------------|----------------|
| TPH (as Gasoline) | 96                      | (73 - 136)             |            |                   | NWTPH NWTPH-Gx |
|                   | 100                     | (73 - 136)             | 3.9        | (0-21)            | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 96                      | (39 - 171)             |
|                      | 99                      | (39 - 171)             |

**NOTE(S) :**

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

Bold print denotes control parameters

**LABORATORY CONTROL SAMPLE DATA REPORT**

**GC Volatiles**

Client Lot #....: G5F090298      Work Order #....: HDHCA1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F130000-358      HDHCA1AD-LCSD  
 Prep Date.....: 06/09/05      Analysis Date...: 06/09/05  
 Prep Batch #....: 5164358  
 Dilution Factor: 1

| <u>PARAMETER</u>         | <u>SPIKE</u><br><u>AMOUNT</u> | <u>MEASURED</u><br><u>AMOUNT</u> | <u>UNITS</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>         |
|--------------------------|-------------------------------|----------------------------------|--------------|-----------------------------------|------------|-----------------------|
| <b>TPH (as Gasoline)</b> | <b>50000</b>                  | <b>48000</b>                     | <b>ug/kg</b> | <b>96</b>                         |            | <b>NWTPH NWTPH-Gx</b> |
|                          | <b>50000</b>                  | <b>49900</b>                     | <b>ug/kg</b> | <b>100</b>                        | <b>3.9</b> | <b>NWTPH NWTPH-Gx</b> |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 96                                | (39 - 171)                       |
|                      | 99                                | (39 - 171)                       |

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

# **SOLID, 8260B, BTEX/MTBE/Naphthalene**

STL SEATTLE

Client Sample ID: SB-1-5

GC/MS Volatiles

Lot-Sample #...: G5F090298-001    Work Order #...: HC9401AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 0.85  
 % Moisture.....: 11    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | 570    | 240                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 480                | ug/kg |
| Benzene                           | 64     | 34                 | ug/kg |
| Toluene                           | ND     | 240                | ug/kg |
| Ethylbenzene                      | 95 J   | 240                | ug/kg |
| Naphthalene                       | ND     | 240                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 102                 | (44 - 142)         |
| 4-Bromofluorobenzene  | 100                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 98                  | (43 - 147)         |
| Toluene-d8            | 108                 | (47 - 145)         |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-1-10

GC/MS Volatiles

Lot-Sample #...: G5F090298-002    Work Order #...: HC9591AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 43.7  
 % Moisture.....: 22    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | 280000   | 14000      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND D     | 28000      | ug/kg |
| Benzene                           | 3800     | 1700       | ug/kg |
| Toluene                           | 28000    | 14000      | ug/kg |
| Ethylbenzene                      | 48000    | 14000      | ug/kg |
| Naphthalene                       | 34000    | 14000      | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 0.0 SRD  | (44 - 142) |       |
| 4-Bromofluorobenzene              | 0.0 SRD  | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 0.0 SRD  | (43 - 147) |       |
| Toluene-d8                        | 0.0 SRD  | (47 - 145) |       |

**NOTE (S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
 Results and reporting limits have been adjusted for dry weight.  
 D Result was obtained from the analysis of a dilution.

STL SEATTLE

Client Sample ID: SB-1-15

GC/MS Volatiles

Lot-Sample #...: G5F090298-003    Work Order #...: HC96C1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 3.83  
 % Moisture.....: 17    Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |              |
|-----------------------------------|-----------------|---------------|--------------|
|                                   |                 | LIMIT         | UNITS        |
| Xylenes (total)                   | ND              | 1200          | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND D            | 2300          | ug/kg        |
| <b>Benzene</b>                    | <b>170</b>      | <b>140</b>    | <b>ug/kg</b> |
| Toluene                           | ND              | 1200          | ug/kg        |
| Ethylbenzene                      | ND              | 1200          | ug/kg        |
| Naphthalene                       | ND              | 1200          | ug/kg        |
|                                   | PERCENT         | RECOVERY      |              |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |              |
| Dibromofluoromethane              | 79              | (44 - 142)    |              |
| 4-Bromofluorobenzene              | 77              | (41 - 152)    |              |
| 1,2-Dichloroethane-d4             | 78              | (43 - 147)    |              |
| Toluene-d8                        | 84              | (47 - 145)    |              |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.  
 D Result was obtained from the analysis of a dilution.

STL SEATTLE

Client Sample ID: SB-1-20

GC/MS Volatiles

Lot-Sample #...: G5F090298-004    Work Order #...: HC96D1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 1.17  
 % Moisture.....: 75    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 1700   | 1200      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 2400      | ug/kg |
| Benzene                           | 1400   | 140       | ug/kg |
| Toluene                           | 630 J  | 1200      | ug/kg |
| Ethylbenzene                      | 350 J  | 1200      | ug/kg |
| Naphthalene                       | 370 J  | 1200      | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 104      | (44 - 142) |
| 4-Bromofluorobenzene  | 103      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 98       | (43 - 147) |
| Toluene-d8            | 111      | (47 - 145) |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.



STL SEATTLE

Client Sample ID: SB-4-5

GC/MS Volatiles

Lot-Sample #...: G5F090298-005    Work Order #...: HC96E1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 0.94  
 % Moisture.....: 25    Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |              |
|-----------------------------------|-----------------|---------------|--------------|
|                                   |                 | LIMIT         | UNITS        |
| <b>Xylenes (total)</b>            | <b>260 J</b>    | <b>310</b>    | <b>ug/kg</b> |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 620           | ug/kg        |
| <b>Benzene</b>                    | <b>41</b>       | <b>40</b>     | <b>ug/kg</b> |
| Toluene                           | ND              | 310           | ug/kg        |
| <b>Ethylbenzene</b>               | <b>160 J</b>    | <b>310</b>    | <b>ug/kg</b> |
| Naphthalene                       | ND              | 310           | ug/kg        |
|                                   | PERCENT         | RECOVERY      |              |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |              |
| Dibromofluoromethane              | 101             | (44 - 142)    |              |
| 4-Bromofluorobenzene              | 103             | (41 - 152)    |              |
| 1,2-Dichloroethane-d4             | 98              | (43 - 147)    |              |
| Toluene-d8                        | 108             | (47 - 145)    |              |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-4-10

GC/MS Volatiles

Lot-Sample #...: G5F090298-006    Work Order #...: HC96G1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 16.57  
 % Moisture.....: 77    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 170000 | 18000     | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND D   | 36000     | ug/kg |
| Benzene                           | 270000 | 2200      | ug/kg |
| Toluene                           | 62000  | 18000     | ug/kg |
| Ethylbenzene                      | 34000  | 18000     | ug/kg |
| Naphthalene                       | 5500 J | 18000     | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 100      | (44 - 142) |
| 4-Bromofluorobenzene  | 107      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 100      | (43 - 147) |
| Toluene-d8            | 108      | (47 - 145) |

**NOTE (S) :**

- Results and reporting limits have been adjusted for dry weight.  
 D Result was obtained from the analysis of a dilution.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-4-15

GC/MS Volatiles

Lot-Sample #...: G5F090298-007    Work Order #...: HC96J1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/10/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 1.38  
 % Moisture.....: 78    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 480 J  | 1500      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 3100      | ug/kg |
| Benzene                           | 920    | 180       | ug/kg |
| Toluene                           | ND     | 1500      | ug/kg |
| Ethylbenzene                      | ND     | 1500      | ug/kg |
| Naphthalene                       | ND     | 1500      | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 98       | (44 - 142) |
| 4-Bromofluorobenzene  | 102      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 94       | (43 - 147) |
| Toluene-d8            | 109      | (47 - 145) |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-4-20

GC/MS Volatiles

Lot-Sample #...: G5F090298-008    Work Order #...: HC96M1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 0.75  
 % Moisture.....: 24    Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |              |
|-----------------------------------|-----------------|---------------|--------------|
|                                   |                 | LIMIT         | UNITS        |
| Xylenes (total)                   | ND              | 250           | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 490           | ug/kg        |
| <b>Benzene</b>                    | <b>150</b>      | <b>39</b>     | <b>ug/kg</b> |
| Toluene                           | ND              | 250           | ug/kg        |
| Ethylbenzene                      | ND              | 250           | ug/kg        |
| Naphthalene                       | ND              | 250           | ug/kg        |
|                                   | PERCENT         | RECOVERY      |              |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |              |
| Dibromofluoromethane              | 101             | (44 - 142)    |              |
| 4-Bromofluorobenzene              | 102             | (41 - 152)    |              |
| 1,2-Dichloroethane-d4             | 98              | (43 - 147)    |              |
| Toluene-d8                        | 107             | (47 - 145)    |              |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-5-5

GC/MS Volatiles

Lot-Sample #...: G5F090298-009    Work Order #...: HC96N1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 0.94  
 % Moisture.....: 15    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 2100   | 280       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 550       | ug/kg |
| Benzene                           | 220    | 35        | ug/kg |
| Toluene                           | 250 J  | 280       | ug/kg |
| Ethylbenzene                      | 390    | 280       | ug/kg |
| Naphthalene                       | 110 J  | 280       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 103      | (44 - 142) |
| 4-Bromofluorobenzene  | 101      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 100      | (43 - 147) |
| Toluene-d8            | 110      | (47 - 145) |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-5-10

GC/MS Volatiles

Lot-Sample #...: G5F090298-010    Work Order #...: HC96R1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 0.88  
 % Moisture.....: 30    Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |       |
|-----------------------------------|-----------------|---------------|-------|
|                                   |                 | LIMIT         | UNITS |
| Xylenes (total)                   | 250 J           | 310           | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 630           | ug/kg |
| Benzene                           | 380             | 43            | ug/kg |
| Toluene                           | ND              | 310           | ug/kg |
| Ethylbenzene                      | ND              | 310           | ug/kg |
| Naphthalene                       | ND              | 310           | ug/kg |
|                                   | PERCENT         | RECOVERY      |       |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |       |
| Dibromofluoromethane              | 101             | (44 - 142)    |       |
| 4-Bromofluorobenzene              | 96              | (41 - 152)    |       |
| 1,2-Dichloroethane-d4             | 97              | (43 - 147)    |       |
| Toluene-d8                        | 108             | (47 - 145)    |       |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-5-15

GC/MS Volatiles

Lot-Sample #...: G5F090298-011    Work Order #...: HC96V1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 1.1  
 % Moisture.....: 60    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | 1300     | 680        | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 1400       | ug/kg |
| Benzene                           | 330      | 82         | ug/kg |
| Toluene                           | ND       | 680        | ug/kg |
| Ethylbenzene                      | 250 J    | 680        | ug/kg |
| Naphthalene                       | ND       | 680        | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 104      | (44 - 142) |       |
| 4-Bromofluorobenzene              | 102      | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 100      | (43 - 147) |       |
| Toluene-d8                        | 109      | (47 - 145) |       |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-5-20

GC/MS Volatiles

Lot-Sample #...: G5F090298-012    Work Order #...: HC96W1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 0.84  
 % Moisture.....: 20    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | ND       | 260        | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 520        | ug/kg |
| Benzene                           | ND       | 37         | ug/kg |
| Toluene                           | ND       | 260        | ug/kg |
| Ethylbenzene                      | ND       | 260        | ug/kg |
| Naphthalene                       | ND       | 260        | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 100      | (44 - 142) |       |
| 4-Bromofluorobenzene              | 101      | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 96       | (43 - 147) |       |
| Toluene-d8                        | 106      | (47 - 145) |       |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: MW-54-5

GC/MS Volatiles

Lot-Sample #...: G5F090298-013    Work Order #...: HC9621AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 1.01  
 % Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 4200   | 300       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 600       | ug/kg |
| Benzene                           | 1900   | 36        | ug/kg |
| Toluene                           | 3800   | 300       | ug/kg |
| Ethylbenzene                      | 1200   | 300       | ug/kg |
| Naphthalene                       | 140 J  | 300       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 104      | (44 - 142) |
| 4-Bromofluorobenzene  | 100      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 101      | (43 - 147) |
| Toluene-d8            | 111      | (47 - 145) |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-54-10

GC/MS Volatiles

Lot-Sample #...: G5F090298-014    Work Order #...: HC9661AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 1.46  
 % Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | ND     | 440                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND D   | 870                | ug/kg |
| Benzene                           | ND     | 52                 | ug/kg |
| Toluene                           | ND     | 440                | ug/kg |
| Ethylbenzene                      | ND     | 440                | ug/kg |
| Naphthalene                       | ND     | 440                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 103                 | (44 - 142)         |
| 4-Bromofluorobenzene  | 110                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 105                 | (43 - 147)         |
| Toluene-d8            | 116                 | (47 - 145)         |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

D Result was obtained from the analysis of a dilution.

STL SEATTLE

Client Sample ID: MW-54-15

GC/MS Volatiles

Lot-Sample #...: G5F090298-015    Work Order #...: HC97D1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 1.18  
 % Moisture.....: 56    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | 760      | 670        | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 1300       | ug/kg |
| Benzene                           | 950      | 81         | ug/kg |
| Toluene                           | 210 J    | 670        | ug/kg |
| Ethylbenzene                      | 190 J    | 670        | ug/kg |
| Naphthalene                       | ND       | 670        | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 102      | (44 - 142) |       |
| 4-Bromofluorobenzene              | 100      | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 98       | (43 - 147) |       |
| Toluene-d8                        | 107      | (47 - 145) |       |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-54-20

GC/MS Volatiles

Lot-Sample #...: G5F090298-016    Work Order #...: HC97G1AA    Matrix.....: SOLID  
 Date Sampled...: 06/07/05    Date Received...: 06/09/05  
 Prep Date.....: 06/09/05    Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283  
 Dilution Factor: 0.86  
 % Moisture.....: 20    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 270       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 540       | ug/kg |
| Benzene                           | ND     | 37        | ug/kg |
| Toluene                           | ND     | 270       | ug/kg |
| Ethylbenzene                      | ND     | 270       | ug/kg |
| Naphthalene                       | ND     | 270       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 102      | (44 - 142) |
| 4-Bromofluorobenzene  | 101      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 96       | (43 - 147) |
| Toluene-d8            | 110      | (47 - 145) |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F090298

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 002            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 003            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 004            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 005            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 006            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 007            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 008            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 009            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 010            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 011            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 012            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 013            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 014            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 015            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |
| 016            | SOLID         | SW846 8260B                  |                          | 5164283                 |                |

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G5F090298      Work Order #...: HDG5A1AA      Matrix.....: SOLID  
 MB Lot-Sample #: G5F130000-283  
 Analysis Date...: 06/09/05      Prep Date.....: 06/09/05  
    Prep Batch #...: 5164283

| PARAMETER                         | RESULT | REPORTING |       |             |
|-----------------------------------|--------|-----------|-------|-------------|
|                                   |        | LIMIT     | UNITS | METHOD      |
| Xylenes (total)                   | ND     | 250       | ug/kg | SW846 8260B |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 500       | ug/kg | SW846 8260B |
| Benzene                           | ND     | 30        | ug/kg | SW846 8260B |
| Toluene                           | ND     | 250       | ug/kg | SW846 8260B |
| Ethylbenzene                      | ND     | 250       | ug/kg | SW846 8260B |
| Naphthalene                       | ND     | 250       | ug/kg | SW846 8260B |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 89       | (44 - 142) |
| 4-Bromofluorobenzene  | 92       | (41 - 152) |
| 1,2-Dichloroethane-d4 | 90       | (43 - 147) |
| Toluene-d8            | 98       | (47 - 145) |

**NOTE (S) :**

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G5F090298      Work Order #...: HDG5A1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F130000-283      HDG5A1AD-LCSD  
 Prep Date.....: 06/09/05      Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283

| <u>PARAMETER</u>                  | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>      |
|-----------------------------------|---------------------|------------------------|--------------|-------------------------|------------|--------------------|
| Methyl tert-butyl ether<br>(MTBE) | 1000                | 864                    | ug/kg        | 86                      |            | SW846 8260B        |
|                                   | 1000                | 906                    | ug/kg        | 91                      | 4.7        | SW846 8260B        |
| <b>Benzene</b>                    | <b>1000</b>         | <b>959</b>             | <b>ug/kg</b> | <b>96</b>               |            | <b>SW846 8260B</b> |
|                                   | <b>1000</b>         | <b>942</b>             | <b>ug/kg</b> | <b>94</b>               | <b>1.8</b> | <b>SW846 8260B</b> |
| <b>Toluene</b>                    | <b>1000</b>         | <b>1030</b>            | <b>ug/kg</b> | <b>103</b>              |            | <b>SW846 8260B</b> |
|                                   | <b>1000</b>         | <b>1020</b>            | <b>ug/kg</b> | <b>102</b>              | <b>1.6</b> | <b>SW846 8260B</b> |
| Ethylbenzene                      | 1000                | 1070                   | ug/kg        | 107                     |            | SW846 8260B        |
|                                   | 1000                | 1070                   | ug/kg        | 107                     | 0.050      | SW846 8260B        |
| Naphthalene                       | 1000                | 1050                   | ug/kg        | 105                     |            | SW846 8260B        |
|                                   | 1000                | 1090                   | ug/kg        | 109                     | 3.2        | SW846 8260B        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 103                     | (44 - 142)             |
|                       | 101                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 102                     | (41 - 152)             |
|                       | 101                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 96                      | (43 - 147)             |
|                       | 96                      | (43 - 147)             |
| Toluene-d8            | 109                     | (47 - 145)             |
|                       | 107                     | (47 - 145)             |

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

Client Lot #...: G5F090298      Work Order #...: HDG5A1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F130000-283      HDG5A1AD-LCSD  
 Prep Date.....: 06/09/05      Analysis Date...: 06/09/05  
 Prep Batch #...: 5164283

| <u>PARAMETER</u>                  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u>      |
|-----------------------------------|-------------------------|------------------------|------------|-------------------|--------------------|
| Methyl tert-butyl ether<br>(MTBE) | 86                      | (70 - 120)             |            |                   | SW846 8260B        |
|                                   | 91                      | (70 - 120)             | 4.7        | (0-36)            | SW846 8260B        |
| <b>Benzene</b>                    | 96                      | <b>(76 - 120)</b>      |            |                   | <b>SW846 8260B</b> |
|                                   | 94                      | <b>(76 - 120)</b>      | <b>1.8</b> | <b>(0-24)</b>     | <b>SW846 8260B</b> |
| <b>Toluene</b>                    | 103                     | <b>(79 - 120)</b>      |            |                   | <b>SW846 8260B</b> |
|                                   | 102                     | <b>(79 - 120)</b>      | <b>1.6</b> | <b>(0-17)</b>     | <b>SW846 8260B</b> |
| Ethylbenzene                      | 107                     | (79 - 120)             |            |                   | SW846 8260B        |
|                                   | 107                     | (79 - 120)             | 0.050      | (0-20)            | SW846 8260B        |
| Naphthalene                       | 105                     | (64 - 133)             |            |                   | SW846 8260B        |
|                                   | 109                     | (64 - 133)             | 3.2        | (0-47)            | SW846 8260B        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 103                     | (44 - 142)             |
|                       | 101                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 102                     | (41 - 152)             |
|                       | 101                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 96                      | (43 - 147)             |
|                       | 96                      | (43 - 147)             |
| Toluene-d8            | 109                     | (47 - 145)             |
|                       | 107                     | (47 - 145)             |

**NOTE (S) :**

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

Bold print denotes control parameters





# STL

**STL Seattle**  
5755 8<sup>th</sup> Street East  
Tacoma, WA 98424

Tel: 253 922 2310  
Fax: 253 922 5047  
[www.stl-inc.com](http://www.stl-inc.com)

## TRANSMITTAL MEMORANDUM

DATE: June 20, 2005

TO: Eric Larsen  
Delta Environmental  
17720 NE 65th Street Ste 201  
Redmond, WA 98052

PROJECT: WA255-3510-1/255353 Seattle

REPORT NUMBER: 128291

TOTAL NUMBER OF PAGES: \_\_\_\_\_

Enclosed are the test results for twenty-two samples received at STL Seattle on June 9, 2005. NWTPH-Gx and volatile organics analysis was performed at STL Sacramento.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Tom Coyner  
Project Manager

---

STL Seattle is a part of Severn Trent Laboratories, Inc.

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# STL Seattle

## Sample Identification:

| <u>Lab. No.</u> | <u>Client ID</u> | <u>Date/Time Sampled</u> | <u>Matrix</u> |
|-----------------|------------------|--------------------------|---------------|
| 128291-1        | SB-6-5           | 06-08-05 07:40           | solid         |
| 128291-2        | SB-6-9           | 06-08-05 07:50           | solid         |
| 128291-3        | SB-6-10          | 06-08-05 07:56           | solid         |
| 128291-4        | SB-6-15          | 06-08-05 08:15           | solid         |
| 128291-5        | SB-7-5           | 06-08-05 09:37           | solid         |
| 128291-6        | SB-7-10          | 06-08-05 09:48           | solid         |
| 128291-7        | SB-7-15          | 06-08-05 10:10           | solid         |
| 128291-8        | SB-7-20          | 06-08-05 10:18           | solid         |
| 128291-9        | MW-55-5          | 06-08-05 11:05           | solid         |
| 128291-10       | MW-55-9          | 06-08-05 11:20           | solid         |
| 128291-11       | MW-55-15         | 06-08-05 11:30           | solid         |
| 128291-12       | MW-55-20         | 06-08-05 11:45           | solid         |
| 128291-13       | SB-2-5           | 06-08-05 13:15           | solid         |
| 128291-14       | SB-2-10          | 06-08-05 13:25           | solid         |
| 128291-15       | SB-2-12          | 06-08-05 13:35           | solid         |
| 128291-16       | SB-2-20          | 06-08-05 13:50           | solid         |
| 128291-17       | SB-3A-5          | 06-08-05 14:40           | solid         |
| 128291-18       | SB-3A-8          | 06-08-05 14:45           | solid         |
| 128291-19       | SB-3A-10         | 06-08-05 14:50           | solid         |
| 128291-20       | SB-3A-12         | 06-08-05 15:05           | solid         |
| 128291-21       | SB-3A-14         | 06-08-05 15:12           | solid         |
| 128291-22       | SB-3A-21         | 06-08-05 15:40           | solid         |

---

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# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-6-5              |
| Lab ID:         | 128291-01           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 86.18               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 87.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.5 |       |
| Motor Oil | ND             | 55   |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-6-9              |
| Lab ID:         | 128291-02           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 84.06               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 87.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 235            | 28.8 | X1    |
| Motor Oil | ND             | 57.7 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-6-10             |
| Lab ID:         | 128291-03           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 78.74               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 75.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 214            | 29.5 | X1    |
| Motor Oil | 190            | 58.9 |       |

X1 - Chromatogram suggests this might be aged or degraded diesel

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-6-15             |
| Lab ID:         | 128291-04           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 72.24               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 63.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 30.3 |       |
| Motor Oil | ND             | 60.6 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-7-5              |
| Lab ID:         | 128291-05           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 80.95               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 73.5       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 29   |       |
| Motor Oil | ND             | 57.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-7-10             |
| Lab ID:         | 128291-06           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 76.36               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 85.6       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 31.6 |       |
| Motor Oil | ND             | 63.2 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-7-15             |
| Lab ID:         | 128291-07           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 16.31               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 65.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL  | Flags |
|-----------|----------------|-----|-------|
| #2 Diesel | ND             | 151 |       |
| Motor Oil | ND             | 301 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-7-20             |
| Lab ID:         | 128291-08           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 62.85               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 88.6       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 34.8 |       |
| Motor Oil | ND             | 69.6 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-55-5             |
| Lab ID:         | 128291-09           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 74.5                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 76.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 33.1 |       |
| Motor Oil | ND             | 66.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-55-9             |
| Lab ID:         | 128291-10           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 91.64               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 84.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 25.6 |       |
| Motor Oil | ND             | 51.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-55-15            |
| Lab ID:         | 128291-11           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 26.02               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 52.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL  | Flags |
|-----------|----------------|-----|-------|
| #2 Diesel | 233            | 92  | X2    |
| Motor Oil | ND             | 184 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-55-20            |
| Lab ID:         | 128291-12           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 48.28               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 61.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL  | Flags |
|-----------|----------------|-----|-------|
| #2 Diesel | 104            | 51  | X2    |
| Motor Oil | ND             | 102 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-2-5              |
| Lab ID:         | 128291-13           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 75.27               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 86.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 32.3 |       |
| Motor Oil | ND             | 64.6 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-2-10             |
| Lab ID:         | 128291-14           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 88.11               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 93.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.5 |       |
| Motor Oil | 74.4           | 55.1 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-2-12             |
| Lab ID:         | 128291-15           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 84.65               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 82.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 29.2 |       |
| Motor Oil | ND             | 58.4 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-2-20             |
| Lab ID:         | 128291-16           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 69.4                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 60         |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 34.7 |       |
| Motor Oil | ND             | 69.5 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-3A-5             |
| Lab ID:         | 128291-17           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 79.78               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 69.3       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 29.9 |       |
| Motor Oil | ND             | 59.7 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-3A-8             |
| Lab ID:         | 128291-18           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 76.44               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 69.5       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 31 |       |
| Motor Oil | ND             | 62 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-3A-10            |
| Lab ID:         | 128291-19           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 88.55               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 75.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 486            | 25.9 | X1    |
| Motor Oil | ND             | 51.8 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-3A-12            |
| Lab ID:         | 128291-20           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 84.8                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 67.1       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 28.1           | 26.1 | X1    |
| Motor Oil | ND             | 52.2 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-3A-14            |
| Lab ID:         | 128291-21           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 84.49               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 62.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.1 |       |
| Motor Oil | ND             | 56.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-3A-21            |
| Lab ID:         | 128291-22           |
| Date Received:  | 6/9/2005            |
| Date Prepared:  | 6/10/2005           |
| Date Analyzed:  | 6/10/2005           |
| % Solids        | 81.07               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 66.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 30.3 |       |
| Motor Oil | ND             | 60.7 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-6-5              |
| Lab ID:         | 128291-01           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 86.18               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 5.81              | 2.01 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-6-9              |
| Lab ID:         | 128291-02           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 84.06               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 6.21              | 2.13 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-6-10             |
| Lab ID:         | 128291-03           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 78.74               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 671               | 2.34 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-6-15             |
| Lab ID:         | 128291-04           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 72.24               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 74.6              | 2.52 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-7-5              |
| Lab ID:         | 128291-05           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 80.95               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 11.2              | 2.42 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-7-10             |
| Lab ID:         | 128291-06           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 76.36               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 89.2              | 2.11 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-7-15             |
| Lab ID:         | 128291-07           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 16.31               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 161               | 10.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-7-20             |
| Lab ID:         | 128291-08           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 62.85               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 4.23              | 2.72 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-55-5             |
| Lab ID:         | 128291-09           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 74.5                |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 19.7              | 2.35 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-55-9             |
| Lab ID:         | 128291-10           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 91.64               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 3.64              | 1.85 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-55-15            |
| Lab ID:         | 128291-11           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 26.02               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 23.2              | 7.03 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-55-20            |
| Lab ID:         | 128291-12           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 48.28               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 3.89 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-2-5              |
| Lab ID:         | 128291-13           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 75.27               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 14.6              | 2.17 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-2-10             |
| Lab ID:         | 128291-14           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 88.11               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 5.15              | 1.91 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-2-12             |
| Lab ID:         | 128291-15           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 84.65               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 4.23              | 1.92 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-2-20             |
| Lab ID:         | 128291-16           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 69.4                |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | 5.39              | 2.4 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-3A-5             |
| Lab ID:         | 128291-17           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.78               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | 5.71              | 2.5 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-3A-8             |
| Lab ID:         | 128291-18           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 76.44               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 4.04              | 2.47 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-3A-10            |
| Lab ID:         | 128291-19           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/9/05              |
| Date Analyzed:  | 6/13/05             |
| Dilution Factor | 1                   |
| % Solids        | 88.55               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 4.75              | 1.98 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-3A-12            |
| Lab ID:         | 128291-20           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/10/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 84.8                |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 3.7               | 2.13 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-3A-14            |
| Lab ID:         | 128291-21           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/10/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 84.49               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 21.5              | 2.06 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-3A-21            |
| Lab ID:         | 128291-22           |
| Date Received:  | 6/9/05              |
| Date Prepared:  | 6/10/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 81.07               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.32 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DS1486 |
| Date Received:  | -                     |
| Date Prepared:  | 6/10/2005             |
| Date Analyzed:  | 6/10/2005             |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 99.2       |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 25 |       |
| Motor Oil | ND             | 50 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DS1487 |
| Date Received:  | -                     |
| Date Prepared:  | 6/10/2005             |
| Date Analyzed:  | 6/10/2005             |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 77.8       |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 25 |       |
| Motor Oil | ND             | 50 |       |



# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DS1486  
Date Prepared: 6/10/2005  
Date Analyzed: 6/13/2005  
QC Batch ID: DS1486

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|-----|------|
| #2 Diesel     | 13                   | 500                  | 536               | 105       | 537                | 105        | 0   |      |
| Motor Oil     | 0                    | 500                  | 508               | 102       | 537                | 107        | 4.8 |      |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DS1487  
Date Prepared: 6/10/2005  
Date Analyzed: 6/10/2005  
QC Batch ID: DS1487

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD  | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|------|------|
| #2 Diesel     | 0                    | 500                  | 474               | 94.8      | 476                | 95.2       | 0.42 |      |
| Motor Oil     | 0                    | 500                  | 508               | 102       | 474                | 94.7       | -7.4 |      |

# STL Seattle

## Duplicate Report

|                   |           |
|-------------------|-----------|
| Client Sample ID: | SB-6-9    |
| Lab ID:           | 128291-02 |
| Date Prepared:    | 6/10/2005 |
| Date Analyzed:    | 6/10/2005 |
| QC Batch ID:      | DS1486    |

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 235                   | 182                      | 25.0  |      |
| Motor Oil      | 0                     | 0                        | NC    |      |

# STL Seattle

## Duplicate Report

Client Sample ID: MW-55-20  
Lab ID: 128291-12  
Date Prepared: 6/10/2005  
Date Analyzed: 6/10/2005  
QC Batch ID: DS1486

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| <b>Parameter Name</b> | <b>Sample<br/>Result<br/>(mg/kg)</b> | <b>Duplicate<br/>Result<br/>(mg/kg)</b> | <b>RPD<br/>%</b> | <b>Flag</b> |
|-----------------------|--------------------------------------|---|------------------|-------------|
| #2 Diesel             | 104                                  | 92.4                                    | 12.0             |             |
| Motor Oil             | 0                                    | 0                                       | NC               |             |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-3A-14  
Lab ID: 128291-21  
Date Prepared: 6/10/2005  
Date Analyzed: 6/10/2005  
QC Batch ID: DS1487

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 6.39                  | 5.29                     | 19.0  |      |
| Motor Oil      | 0                     | 0                        | NC    |      |

# STL Seattle

|                  |                       |
|------------------|-----------------------|
| Lab ID:          | Method Blank - SP1306 |
| Date Received:   | -                     |
| Date Prepared:   | 6/9/05                |
| Date Analyzed:   | 6/13/05               |
| Dilution Factor: | 1                     |

## Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

| Analyte | Result<br>(mg/kg) | RL | Flags |
|---------|-------------------|----|-------|
| Lead    | ND                | 2  |       |

# STL Seattle

|                  |                       |
|------------------|-----------------------|
| Lab ID:          | Method Blank - SP1307 |
| Date Received:   | -                     |
| Date Prepared:   | 6/10/05               |
| Date Analyzed:   | 6/14/05               |
| Dilution Factor: | 1                     |

## Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

| Analyte | Result<br>(mg/kg) | RL | Flags |
|---------|-------------------|----|-------|
| Lead    | ND                | 2  |       |

# STL Seattle

## Matrix Spike Report

Client Sample ID: 050607/RT-1  
Lab ID: 128242-01  
Date Prepared: 6/9/05  
Date Analyzed: 6/13/05  
QC Batch ID: SP1306

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Spike Amount (mg/kg) | MS Result (mg/kg) | MS % Rec. | Flag |
|----------------|-----------------------|----------------------|-------------------|-----------|------|
| Lead           | 9.79                  | 96                   | 99.9              | 94        |      |



# STL Seattle

## Matrix Spike Report

|                   |           |
|-------------------|-----------|
| Client Sample ID: | MPPR-A1-P |
| Lab ID:           | 128289-01 |
| Date Prepared:    | 6/10/05   |
| Date Analyzed:    | 6/14/05   |
| QC Batch ID:      | SP1307    |

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Spike Amount (mg/kg) | MS Result (mg/kg) | MS % Rec. | Flag |
|----------------|-----------------------|----------------------|-------------------|-----------|------|
| Lead           | 208                   | 108                  | 303               | 88        |      |

# STL Seattle

## Duplicate Report

Client Sample ID: 050607/RT-1  
Lab ID: 128242-01  
Date Prepared: 6/9/05  
Date Analyzed: 6/13/05  
QC Batch ID: SP1306

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| Lead           | 9.8                   | 8.9                      | 9.6   |      |

# STL Seattle

## Duplicate Report

|                   |           |
|-------------------|-----------|
| Client Sample ID: | MPPR-A1-P |
| Lab ID:           | 128289-01 |
| Date Prepared:    | 6/10/05   |
| Date Analyzed:    | 6/14/05   |
| QC Batch ID:      | SP1307    |

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| Lead           | 210                   | 180                      | 15.0  |      |

**DATA QUALIFIERS AND ABBREVIATIONS**

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- C3: Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be ≤ 30%.
- C4: Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The original analysis was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- RL: Reporting Limit
- N: See analytical narrative
- ND: Not Detected
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be \_\_\_\_\_.
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.

Client: **Conoco Phillips 90 Delta Env** Project Manager: **Eric Larsen / elarsen@deltaenv.com** Date: **6-8-05** Chain of Custody Number: **16094**

Address: **17720 NE 65th St. Suite 201** Telephone Number (Area Code)/Fax Number: **425-558-0134** Lab Number: **128291** Page **2** of **2**

City: **Redmond** State: **WA** Zip Code: **98052** Site Contact: **Manager Kifley** Lab Contact: **Tom Coyner**

Project Name and Location (State): **WA255-3510-1 / 255353 Seattle** Carrier/Waybill Number: **WD #: 1396DELO10**

Contract/Purchase Order/Quote No.:

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date   | Time | Matrix  |      |      |         | Containers & Preservatives |      |     |      | Analysis (Attach list if more space is needed) |  |
|--|--------|------|---------|------|------|---------|----------------------------|------|-----|------|--|--|
|  |        |      | Aqueous | Sed. | Soil | Unpres. | H2SO4                      | HNO3 | HCl | NaOH |  | ZnAc/NaOH  |
| 13 SB-2-5  | 6-8-05 | 1315 | X       |      |      |         |                            |      |     |      |  | WTRH-Gx<br>BTX+M+N (8208)<br>WTRH-Dx w/sig cleanup<br>Total Lead |
| 14 SB-2-10   |        | 1325 |         |      |      |         |                            |      |     |      |  |  |
| 15 SB-2-12   |        | 1335 |         |      |      |         |                            |      |     |      |  |  |
| 16 SB-2-20   |        | 1350 |         |      |      |         |                            |      |     |      |  |  |
| 17 SB-3A-5   |        | 1440 |         |      |      |         |                            |      |     |      |  |  |
| 18 SB-3A-8   |        | 1445 |         |      |      |         |                            |      |     |      |  |  |
| 19 SB-3A-10  |        | 1450 |         |      |      |         |                            |      |     |      |  |  |
| 20 SB-3A-12  |        | 1505 |         |      |      |         |                            |      |     |      |  |  |
| 21 SB-3A-14  |        | 1512 |         |      |      |         |                            |      |     |      |  |  |
| 22 SB-3A-21  |        | 1540 |         |      |      |         |                            |      |     |      |  |  |

Special Instructions/Conditions of Receipt:

Sample Disposal:  Disposal By Lab  Archive For \_\_\_\_\_ Months

Return To Client:  Unknown:  Poison B:  Skin Irritant:  Flammable:  Non-Hazard:  Possible Hazard Identification

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other

QC Requirements (Specify):

1. Relinquished By: **Eric Larsen** Date: **6-9-05** Time: **10:55** 1. Received By: **Eric Larsen** Date: **6/9/05** Time: **10:55**

2. Relinquished By: **Eric Larsen** Date: **6/9/05** Time: **13:00** 2. Received By: **Eric Larsen** Date: **6/9/05** Time: **13:00**

3. Relinquished By: **Eric Larsen** Date: \_\_\_\_\_ Time: \_\_\_\_\_ 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: **Please run Dx samples with acid/silica gel cleanup**

## Chain of Custody Record

Client: **Conoco Phillips 410 Delta Env** Project Manager: **Eric Larsen / elarsen@deltaenv.com** Date: **6-8-05** Chain of Custody Number: **16092**

Address: **17720 NE 65th St, Suite 201** Telephone Number (Area Code)/Fax Number: **425-558-0134** Lab Number: **128191** Page: **1** of **2**

City: **Redmond** State: **WA** Zip Code: **98052** Site Contact: **Tom Coyner** Lab Contact: **Tom Coyner**

Project Name and Location (State): **W255-3510-1 / 255353 Seattle** Carrier/Waybill Number: **meoht**

Contract/Purchase Order/Quote No.: **WO #: 1396DELO10**

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date   | Time | Matrix |         |      |      |         |       | Containers & Preservatives |     |      |           |          |                  | Analysis (Attach list if more space is needed) |                       |            |   |
|--|--------|------|--------|---------|------|------|---------|-------|----------------------------|-----|------|-----------|----------|------------------|--|-----------------------|------------|---|
|  |        |      | Air    | Aqueous | Sed. | Soil | Impres. | H2SO4 | HNO3                       | HCl | NaOH | ZnAc/NaOH | NWTRH-Gx | BTEX+M+N (2260B) |  | NWTRH-Dx w/sg cleanup | Total Lead |   |
| 1 SB-6-5   | 6-8-05 | 740  |        |         |      | X    |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 2 SB-6-9   |        | 750  |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 3 SB-6-10  |        | 756  |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 4 SB-6-15  |        | 815  |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 5 SB-7-5   |        | 937  |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 6 SB-7-10  |        | 948  |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 7 SB-7-15  |        | 1010 |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 8 SB-7-20  |        | 1018 |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 9 MW-55-5  |        | 1105 |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 10 MW-55-9   |        | 1120 |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 11 MW-55-15  |        | 1130 |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            |   |
| 12 MW-55-20  |        | 1145 |        |         |      |      |         |       |                            |     |      |           |          |                  |  |                       |            | Soil was watery<br>Plunger wouldn't fill we |

Cypher:  Yes  No Cooler Temp: \_\_\_\_\_ Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Months: \_\_\_\_\_

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_

Sample Disposal:  1. Received By: **6-9-05 1055** Date: **6/9/05** Time: **1055**

Return To Client:  2. Received By: **6/9/05 1300** Date: **6/9/05** Time: **1300**

Archive For:  3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

QC Requirements (Specify): \_\_\_\_\_

Comments: **Please run Dx samples with acid/silica gel cleanup**

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



**STL Sacramento**  
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June 19, 2005

**STL SACRAMENTO PROJECT NUMBER: G5F100238**  
**PO/CONTRACT: 128291**

Tom Coyner  
STL Seattle  
5755 8th Street East  
Tacoma, WA 98424

Dear Mr. Coyner,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on June 10, 2005. These samples are associated with your 128291 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4402.

Sincerely,

A handwritten signature in black ink that reads "Jill Kellmann". The signature is fluid and cursive.

Jill Kellmann  
Project Manager

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Samples: 1 through 22

Sample Data Sheets

Method Blank Report

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**SOLID, 8260B, BTEX/MTBE/Naphthalene**

Samples: 1 through 22

Sample Data Sheets

Method Blank Report

Laboratory QC Reports

Raw Data Section



## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F100238

#### General Comments

The samples were received at 5.5° C.

The percent moisture analysis was performed at STL Seattle. Results were provided to STL Sacramento for purposes of dry weight correction.

One vial was received for both the 8260 and TPH-G analysis. In order to be able to analyze for both tests, where possible, a 1.0ml aliquot of extract was spiked with appropriate surrogate and then appropriate dilutions made.

The analyst observed that some of the sample labels were obscured. It is possible that methanol was lost during the sampling process and came in contact with the label on the outside of the vial.

#### SOLID, NWTPH-G

Sample(s): 1 through 22

The samples were initially intended to be analyzed at STL Seattle. The surrogate trifluorotoluene (TFT) was field spiked into each sample. This surrogate is not used under standard operating procedures at STL Sacramento and, therefore, the instrumentation is not curved appropriately to quantitate results using surrogate TFT. For the NWTPH-Gas analysis, TFT was identified and subtracted from the area of quantitation. 4-Bromofluorobenzene (BFB) was spiked at analysis and is the reported surrogate.

Sample(s): 2, 19, 20

The above samples required 20X, 100X, and 20X dilutions respectively due to high analyte levels. Reporting limits have been adjusted accordingly and samples have been appropriately flagged with a "Q" qualifier.

#### SOLID, NWTPH-G and 8260B, BTEX/MTBE/Naphthalene

Sample(s): 1 through 22

Insufficient volume was available for a matrix spike/matrix spike duplicate (MS/MSD). A laboratory control sample/duplicate control sample (LCS/DCS) was prepared instead.

## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F100238

#### **SOLID, 8260-Benzene only**

Sample(s) 1 through 16

Due to software limitations, the samples analyzed at 1X with a sample weight greater than 10g required the benzene reporting limit to be raised to 30 ug/kg (wet weight). Samples with sample weights less than 10g or requiring dilution have the reporting limits corrected to the actual sample weight. The software does not allow for sample reporting limits to be below the method blank reporting limit. Therefore, only the samples with a sample weight greater than 10g were impacted.

There were no other anomalies associated with this project.

**STL Sacramento Certifications/Accreditations**

| Certifying State | Certificate # | Certifying State  | Certificate # |
|------------------|---------------|-------------------|---------------|
| Alaska           | UST-055       | Oregon*           | CA 200005     |
| Arkansas         | 04-067-0      | South Carolina    | 87014002      |
| Colorado         | NA            | Utah*             | QUANI         |
| Florida*         | E87570        | Washington        | C087          |
| Hawaii           | NA            | Wisconsin         | 998204680     |
| Michigan         | 9947          | USACE             | NA            |
| New Jersey*      | CA005         | USDA Foreign Soil | S-46613       |
|                  | 11666         |                   |               |

\*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

**QC Parameter Definitions**

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary G5F100238

| <u>WO#</u> | <u>Sample #</u> | <u>Client Sample ID</u> | <u>Sampling Date</u> | <u>Received Date</u> |
|------------|-----------------|-------------------------|----------------------|----------------------|
| HDDP0      | 1               | SB-6-5                  | 6/8/2005 07:40 AM    | 6/10/2005 08:45 AM   |
| HDDQH      | 2               | SB-6-9                  | 6/8/2005 07:50 AM    | 6/10/2005 08:45 AM   |
| HDDQJ      | 3               | SB-6-10                 | 6/8/2005 07:56 AM    | 6/10/2005 08:45 AM   |
| HDDQN      | 4               | SB-6-15                 | 6/8/2005 08:15 AM    | 6/10/2005 08:45 AM   |
| HDDQQ      | 5               | SB-7-5                  | 6/8/2005 09:37 AM    | 6/10/2005 08:45 AM   |
| HDDQT      | 6               | SB-7-10                 | 6/8/2005 09:48 AM    | 6/10/2005 08:45 AM   |
| HDDQW      | 7               | SB-7-15                 | 6/8/2005 10:10 AM    | 6/10/2005 08:45 AM   |
| HDDQ0      | 8               | SB-7-20                 | 6/8/2005 10:18 AM    | 6/10/2005 08:45 AM   |
| HDDQ3      | 9               | MW-55-5                 | 6/8/2005 11:05 AM    | 6/10/2005 08:45 AM   |
| HDDQ6      | 10              | MW-55-9                 | 6/8/2005 11:20 AM    | 6/10/2005 08:45 AM   |
| HDDQ9      | 11              | MW-55-15                | 6/8/2005 11:30 AM    | 6/10/2005 08:45 AM   |
| HDDRA      | 12              | MW-55-20                | 6/8/2005 11:45 AM    | 6/10/2005 08:45 AM   |
| HDDR6      | 13              | SB-2-5                  | 6/8/2005 01:15 PM    | 6/10/2005 08:45 AM   |
| HDDTH      | 14              | SB-2-10                 | 6/8/2005 01:25 PM    | 6/10/2005 08:45 AM   |
| HDDTK      | 15              | SB-2-12                 | 6/8/2005 01:35 PM    | 6/10/2005 08:45 AM   |
| HDDTM      | 16              | SB-2-20                 | 6/8/2005 01:50 PM    | 6/10/2005 08:45 AM   |
| HDDTP      | 17              | SB-3A-5                 | 6/8/2005 02:40 PM    | 6/10/2005 08:45 AM   |
| HDDTW      | 18              | SB-3A-8                 | 6/8/2005 02:45 PM    | 6/10/2005 08:45 AM   |
| HDDT2      | 19              | SB-3A-10                | 6/8/2005 02:50 PM    | 6/10/2005 08:45 AM   |
| HDDT4      | 20              | SB-3A-12                | 6/8/2005 03:05 PM    | 6/10/2005 08:45 AM   |
| HDDT7      | 21              | SB-3A-14                | 6/8/2005 03:12 PM    | 6/10/2005 08:45 AM   |
| HDDVD      | 22              | SB-3A-21                | 6/8/2005 03:40 PM    | 6/10/2005 08:45 AM   |

**Notes(s):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

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## Chain of Custody Record

Client: STL-Seattle Project-Manager: TOM COYNE Date: 6/9/05 Chain of Custody Number: 15680  
 Address: \_\_\_\_\_ Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Lab Number: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Lab Contact: \_\_\_\_\_ Page: 1 of 2

| Project Name and Location (State)     | Carrier/Waybill Number | Containers & Preservatives |      |     |      | Matrix | Time   | Date | Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Analysis (Attach Rst if more space is needed) | Special Instructions/<br>Conditions of Receipt |
|---------------------------------------|------------------------|----------------------------|------|-----|------|--------|--------|------|--|---|--|
|                                       |                        | H2SO4                      | HNO3 | HCl | NaOH |        |        |      |  |   |  |
| WA 255-350-11 255353 Seattle<br>12891 |                        |                            |      |     |      |        |        |      |  |   |  |
| SB-6-5                                |                        |                            |      |     |      | 740    | 6/8/05 |      |  |   |  |
| SB-6-9                                |                        |                            |      |     |      | 956    |        |      |  |   |  |
| SB-6-10                               |                        |                            |      |     |      | 750    |        |      |  |   |  |
| SB-6-15                               |                        |                            |      |     |      | 815    |        |      |  |   |  |
| SB-7-5                                |                        |                            |      |     |      | 937    |        |      |  |   |  |
| SB-7-10                               |                        |                            |      |     |      | 948    |        |      |  |   |  |
| SB-7-15                               |                        |                            |      |     |      | 1010   |        |      |  |   |  |
| SB-7-20                               |                        |                            |      |     |      | 1018   |        |      |  |   |  |
| MW-55-45                              |                        |                            |      |     |      | 1105   |        |      |  |   |  |
| MW-55-49                              |                        |                            |      |     |      | 1120   |        |      |  |   |  |
| MW-55-15                              |                        |                            |      |     |      | 1130   |        |      |  |   |  |
| MW-55-20                              |                        |                            |      |     |      | 1145   |        |      |  |   |  |

Possible Hazard Identification:  
 Yes  No Cooler Temp: \_\_\_\_\_  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Disposal By Lab  
 Turn Around Time Required (business days):  
 24 Hours  48 Hours  5 Days  10 Days  15 Days  
 QC Requirements (Specify):  
 1. Relinquished By: KP Date: 6/9/05 Time: 15:55  
 2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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

Received By: [Signature] Date: 6/9/05 Time: 15:55  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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 Fax 253-922-5047  
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**Chain of  
 Custody Record**

**SEVERN  
 TRENT  
 STL**

Client: STL - Seattle Project Manager: \_\_\_\_\_ Date: 6/9/05 Chain of Custody Number: 15681  
 Address: \_\_\_\_\_ Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Lab Number: \_\_\_\_\_ Page: 2 of 2  
 City: \_\_\_\_\_ Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Carrier/Voybill Number: \_\_\_\_\_

Project Name and Location (State): \_\_\_\_\_ Contract/Purchase Order/Quote No.: 128291

Analysis (Attach list if more space is needed)

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date    | Time | Matrix |     | Containers & Preservatives |       |      |    |       |       |     | Special Instructions/<br>Conditions of Receipt |  |  |  |  |
|--|---------|------|--------|-----|----------------------------|-------|------|----|-------|-------|-----|--|--|--|--|--|
|  |         |      | Aq     | Sol | Uppers                     | H2SO4 | HNO3 | HC | HClO4 | ZnCl2 | HNO |  |  |  |  |  |
| SB-2-5   | 10/8/05 | 1315 |        | X   |                            |       |      |    |       |       |     |  |  |  |  |  |
| SB-2-10  |         | 1315 |        |     |                            |       |      |    |       |       |     |  |  |  |  |  |
| SB-2-17  |         | 1335 |        |     |                            |       |      |    |       |       |     |  |  |  |  |  |
| SB-2-20  |         | 1350 |        |     |                            |       |      |    |       |       |     |  |  |  |  |  |
| SB-3A-5  |         | 1440 |        |     |                            |       |      |    |       |       |     |  |  |  |  |  |
| SB-3A-8  |         | 1445 |        |     |                            |       |      |    |       |       |     |  |  |  |  |  |
| SB-3A-10   |         | 1450 |        |     |                            |       |      |    |       |       |     |  |  |  |  |  |
| SB-3A-12   |         | 1505 |        |     |                            |       |      |    |       |       |     |  |  |  |  |  |
| SB-3A-14   |         | 1512 |        |     |                            |       |      |    |       |       |     |  |  |  |  |  |
| SB-3A-21   |         | 1540 |        |     |                            |       |      |    |       |       |     |  |  |  |  |  |

RECEIVED IN GOOD CONDITION UNDER COC  
 JUN 10 2005

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_ Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Polson B  Unknown  Sample Disposal  Disposal By Lab  Return To Client  Archive For \_\_\_\_\_ Manifests \_\_\_\_\_  
 Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other: ASAP (A fee may be assessed if samples are retained longer than 1 month)  
 1. Relinquished By: PC Date: 6/9/05 Time: 1516 1. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ 2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: \_\_\_\_\_

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



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL Pullu PM JR LOG # 31055  
 LOT# (QUANTIMS ID) G5F10023A QUOTE# W022 LOCATION 10

DATE RECEIVED 6/10/05 TIME RECEIVED 8:45 Initials AM Date 6/10/05

- DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
 CUSTODY SEAL #(S) N/A  
 SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER   
 COC #(S) 15680 15681  
 TEMPERATURE BLANK Observed: 1°C Corrected: 30°C

SAMPLE TEMPERATURE  
 Observed: 6 5 6 Average: 5.5 Corrected Average: 5.5  
 COLLECTOR'S NAME:  Verified from COC  NOT on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....  
 LABELS CHECKED BY.....  
 PEER REVIEW  N/A

- SHORT HOLD TEST NOTIFICATION
- SAMPLE RECEIVING  
 WETCHEM  N/A  
 VOA-ENCORES  N/A
- METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A  
 COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A  
 Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

# SOLID, NWTPH-G



STL SEATTLE

Client Sample ID: SB-6-5

GC Volatiles

Lot-Sample #...: G5F100238-001    Work Order #...: HDDP01AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 14    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | 7100          | 5800                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 96                          | (39 - 171)                 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-6-9

GC Volatiles

Lot-Sample #...: G5F100238-002    Work Order #...: HDDQH1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
Prep Batch #...: 5164581  
Dilution Factor: 20  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 1800000 Q       | 120000                           | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>                  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| 4-Bromofluorobenzene | 0.0 SRD         | (39 - 171)                       |              |

NOTE(S) :

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-6-10

GC Volatiles

Lot-Sample #...: G5F100238-003    Work Order #...: HDDQJ1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 21    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|----------------------|-------------------------|------------------------|--------------|
| TPH (as Gasoline)    | 39000                   | 6400                   | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |              |
| 4-Bromofluorobenzene | 139                     | (39 - 171)             |              |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-6-15

GC Volatiles

Lot-Sample #...: G5F100238-004    Work Order #...: HDDQN1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 28    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>  | <u>REPORTING</u> | <u>LIMIT</u>  | <u>UNITS</u> |
|----------------------|----------------|------------------|---------------|--------------|
| TPH (as Gasoline)    | ND             |                  | 6900          | ug/kg        |
|                      |                |                  |               |              |
|                      |                |                  |               |              |
| <u>SURROGATE</u>     | <u>PERCENT</u> | <u>RECOVERY</u>  | <u>LIMITS</u> |              |
| 4-Bromofluorobenzene | RECOVERY       | 110              | (39 - 171)    |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-7-5

GC Volatiles

Lot-Sample #...: G5F100238-005    Work Order #...: HDDQQ1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 19    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------|--------------|
| TPH (as Gasoline)    | 42000           | 6200                       | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>            |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>              |              |
| 4-Bromofluorobenzene | 115             | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-7-10

GC Volatiles

Lot-Sample #...: G5F100238-006    Work Order #...: HDDQT1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 24    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | ND            | 6500                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 94                                | (39 - 171)                       |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-7-15

GC Volatiles

Lot-Sample #...: G5F100238-007    Work Order #...: HDDQWIAC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 84    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | 48000         | 31000                            | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 93                                | (39 - 171)                       |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-7-20

GC Volatiles

Lot-Sample #....: G5F100238-008    Work Order #....: HDDQ01AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #....: 5164581  
Dilution Factor: 1  
% Moisture.....: 37    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND              | 8000                             | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>                  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| 4-Bromofluorobenzene | 94              | (39 - 171)                       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: MW-55-5

GC Volatiles

Lot-Sample #...: G5F100238-009    Work Order #...: HDDQ31AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 25    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND              | 6700                             | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>                  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| 4-Bromofluorobenzene | 91              | (39 - 171)                       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: NW-55-9

GC Volatiles

Lot-Sample #...: G5F100238-010    Work Order #...: HDDQ61AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 8.4    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 5500                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 94                          | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-55-15

GC Volatiles

Lot-Sample #...: G5F100238-011    Work Order #...: HDDQ91AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 74    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 31000                             | 19000                            | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 92                                | (39 - 171)                       |              |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-55-20

GC Volatiles

Lot-Sample #....: G5F100238-012    Work Order #....: HDDRA1AC    Matrix.....: SOLID  
Date Sampled....: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #....: 5164581  
Dilution Factor: 1  
% Moisture.....: 52    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 22000                             | 10000                            | ug/kg        |
|                      |                                   |                                  |              |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 91                                | (39 - 171)                       |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-2-5

GC Volatiles

Lot-Sample #...: G5F100238-013    Work Order #...: HDDRG1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 25    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | ND            | 6600                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 92                                | (39 - 171)                       |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-2-10

GC Volatiles

Lot-Sample #...: G5F100238-014    Work Order #...: HDDTH1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 12    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND              | 5700                             | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>                  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| 4-Bromofluorobenzene | 92              | (39 - 171)                       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-2-12

GC Volatiles

Lot-Sample #...: G5F100238-015    Work Order #...: HDDTK1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>                         | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|--|-------------------------|------------------------|--------------|
| TPH (as Gasoline)                        | ND                      | 5900                   | ug/kg        |
|  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |              |
| <u>SURROGATE</u><br>4-Bromofluorobenzene | 98                      | (39 - 171)             |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-2-20

GC Volatiles

Lot-Sample #...: G5F100238-016    Work Order #...: HDDTM1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 31    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | ND            | 7200                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 92                                | (39 - 171)                       |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-3A-5

GC Volatiles

Lot-Sample #...: G5F100238-017    Work Order #...: HDDTP1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 20    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | 15000         | 6300                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 99                          | (39 - 171)                 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-3A-8

GC Volatiles

Lot-Sample #...: G5F100238-018    Work Order #...: HDDTW1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/12/05  
Prep Batch #...: 5164581  
Dilution Factor: 1  
% Moisture.....: 24    Method.....: NWTPH NWIPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | 19000         | 6500                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 96                          | (39 - 171)                 |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-3A-10

GC Volatiles

Lot-Sample #....: G5F100238-019    Work Order #....: HDDT21AC    Matrix.....: SOLID  
Date Sampled....: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
Prep Batch #....: 5164581  
Dilution Factor: 100  
% Moisture.....: 11    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>  | <u>REPORTING</u> | <u>LIMIT</u>  | <u>UNITS</u> |
|----------------------|----------------|------------------|---------------|--------------|
| TPH (as Gasoline)    | 14000000 Q     |                  | 560000        | ug/kg        |
|                      |                |                  |               |              |
| <u>SURROGATE</u>     | <u>PERCENT</u> | <u>RECOVERY</u>  | <u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD        |                  | (39 - 171)    |              |

NOTE(S) :

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
Results and reporting limits have been adjusted for dry weight.  
Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-3A-12

GC Volatiles

Lot-Sample #...: G5F100238-020    Work Order #...: HDDT41AC    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/14/05  
 Prep Batch #...: 5164581  
 Dilution Factor: 20  
 % Moisture.....: 15    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|------------------------|--------------|
| TPH (as Gasoline)    | 1000000 Q       | 120000                 | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>        |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>          |              |
| 4-Bromofluorobenzene | 0.0 SRD         | (39 - 171)             |              |

**NOTE(S):**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-3A-14

GC Volatiles

Lot-Sample #...: G5F100238-021    Work Order #...: HDDT71AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/14/05  
Prep Batch #...: 5165537  
Dilution Factor: 1  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 11000                       | 5900                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 99                          | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-3A-21

GC Volatiles

Lot-Sample #...: G5F100238-022    Work Order #...: HDDVD1AC    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/14/05  
Prep Batch #...: 5165537  
Dilution Factor: 1  
% Moisture.....: 19    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 6200                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 87                          | (39 - 171)                 |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F100238

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 002            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 003            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 004            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 005            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 006            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 007            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 008            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 009            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 010            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 011            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F100238

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 012            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 013            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 014            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 015            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 016            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 017            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 018            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 019            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 020            | SOLID         | ASTM D 2216-90               |                          | 5164609                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5164581                 |                |
| 021            | SOLID         | ASTM D 2216-90               |                          | 5164610                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165536                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5165537                 |                |
| 022            | SOLID         | ASTM D 2216-90               |                          | 5164610                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5165536                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5165537                 |                |



METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G5F100238  
MB Lot-Sample #: G5F130000-581  
Analysis Date...: 06/10/05  
Dilution Factor: 1

Work Order #...: HDHVX1AA  
Prep Date.....: 06/10/05  
Prep Batch #...: 5164581

Matrix.....: SOLID

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>  |
|----------------------|-----------------------------------|----------------------------------|--------------|----------------|
| TPH (as Gasoline)    | ND                                | 5000                             | ug/kg        | NWTPH NWTPH-Gx |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |                |
| 4-Bromofluorobenzene | 93                                | (39 - 171)                       |              |                |

**NOTE(S) :**

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G5F100238      Work Order #...: HDLDP1AA      Matrix.....: SOLID  
MB Lot-Sample #: G5F140000-537  
Prep Date.....: 06/10/05  
Analysis Date...: 06/11/05      Prep Batch #...: 5165537  
Dilution Factor: 1

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>  |
|----------------------|-----------------------------|----------------------------|--------------|----------------|
| TPH (as Gasoline)    | ND                          | 5000                       | ug/kg        | NWTPH NWTPH-Gx |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |                |
| 4-Bromofluorobenzene | 95                          | (39 - 171)                 |              |                |

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: G5F100238      Work Order #...: HDHVX1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F130000-581      HDHVX1AD-LCSD  
 Prep Date.....: 06/10/05      Analysis Date...: 06/10/05  
 Prep Batch #...: 5164581  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u>  |
|-------------------|-------------------------|------------------------|------------|-------------------|----------------|
| TPH (as Gasoline) | 102                     | (73 - 136)             |            |                   | NWTPH NWTPH-Gx |
|                   | 105                     | (73 - 136)             | 3.0        | (0-21)            | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 103                     | (39 - 171)             |
|                      | 104                     | (39 - 171)             |

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: G5F100238      Work Order #...: HDHVX1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F130000-581      HDHVX1AD-LCSD  
 Prep Date.....: 06/10/05      Analysis Date...: 06/10/05  
 Prep Batch #...: 5164581  
 Dilution Factor: 1

| <u>PARAMETER</u>     | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>          |
|----------------------|---------------------|------------------------|--------------|-------------------------|------------|------------------------|
| TPH (as Gasoline)    | 50000               | 51000                  | ug/kg        | 102                     |            | NWTPH NWTPH-Gx         |
|                      | 50000               | 52500                  | ug/kg        | 105                     | 3.0        | NWTPH NWTPH-Gx         |
| <u>SURROGATE</u>     |                     |                        |              | <u>PERCENT RECOVERY</u> |            | <u>RECOVERY LIMITS</u> |
| 4-Bromofluorobenzene |                     |                        |              | 103                     |            | (39 - 171)             |
|                      |                     |                        |              | 104                     |            | (39 - 171)             |

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: G5F100238      Work Order #...: HDLDP1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F140000-537      HDLDP1AD-LCSD  
 Prep Date.....: 06/10/05      Analysis Date...: 06/11/05  
 Prep Batch #...: 5165537  
 Dilution Factor: 1

| <u>PARAMETER</u>         | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> | <u>RPD</u> | <u>RPD<br/>LIMITS</u> | <u>METHOD</u>  |
|--------------------------|-----------------------------|----------------------------|------------|-----------------------|----------------|
| <b>TPH (as Gasoline)</b> | 103                         | (73 - 136)                 |            |                       | NWTPH NWTPH-Gx |
|                          | 105                         | (73 - 136)                 | 2.3        | (0-21)                | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 107                         | (39 - 171)                 |
|                      | 104                         | (39 - 171)                 |

**NOTE(S) :**

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: G5F100238      Work Order #...: HDLDP1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F140000-537      HDLDP1AD-LCSD  
 Prep Date.....: 06/10/05      Analysis Date...: 06/11/05  
 Prep Batch #...: 5165537  
 Dilution Factor: 1

| <u>PARAMETER</u>     | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>          |
|----------------------|---------------------|------------------------|--------------|-------------------------|------------|------------------------|
| TPH (as Gasoline)    | 50000               | 51300                  | ug/kg        | 103                     |            | NWTPH NWTPH-Gx         |
|                      | 50000               | 52500                  | ug/kg        | 105                     | 2.3        | NWTPH NWTPH-Gx         |
| <u>SURROGATE</u>     |                     |                        |              | <u>PERCENT RECOVERY</u> |            | <u>RECOVERY LIMITS</u> |
| 4-Bromofluorobenzene |                     |                        |              | 107                     |            | (39 - 171)             |
|                      |                     |                        |              | 104                     |            | (39 - 171)             |

**NOTE(S):**

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

Bold print denotes control parameters

**SOLID, 8260B,  
BTEX/MTBE/Naphthalene**

STL SEATTLE

Client Sample ID: SB-6-5

GC/MS Volatiles

Lot-Sample #...: G5F100238-001    Work Order #...: HDDP01AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/10/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.88  
 ‡ Moisture.....: 14    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |     |
|-----------------------------------|--------|-----------|-------|-----|
|                                   |        | LIMIT     | UNITS | MDL |
| Xylenes (total)                   | 78 J   | 260       | ug/kg | 74  |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 510       | ug/kg | 260 |
| Benzene                           | ND     | 35        | ug/kg | 20  |
| Toluene                           | ND     | 260       | ug/kg | 75  |
| Ethylbenzene                      | ND     | 260       | ug/kg | 58  |
| Naphthalene                       | ND     | 260       | ug/kg | 72  |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 99       | (44 - 142) |
| 4-Bromofluorobenzene  | 100      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 94       | (43 - 147) |
| Toluene-d8            | 109      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.



STL SEATTLE

Client Sample ID: SB-6-9

GC/MS Volatiles

Lot-Sample #....: G5F100238-002    Work Order #....: HDDQH1AA    Matrix.....: SOLID  
 Date Sampled....: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/14/05  
 Prep Batch #....: 5165316  
 Dilution Factor: 4.05  
 % Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                         | RESULT  | REPORTING |       |
|-----------------------------------|---------|-----------|-------|
|                                   |         | LIMIT     | UNITS |
| Xylenes (total)                   | 20000 Q | 1200      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND      | 2400      | ug/kg |
| Benzene                           | ND      | 140       | ug/kg |
| Toluene                           | ND      | 1200      | ug/kg |
| Ethylbenzene                      | 5600    | 1200      | ug/kg |
| Naphthalene                       | 16000   | 1200      | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 103      | (44 - 142) |
| 4-BromoFluorobenzene  | 103      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 104      | (43 - 147) |
| Toluene-d8            | 115      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-6-10

GC/MS Volatiles

Lot-Sample #...: G5F100238-003    Work Order #...: HDDQJ1AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/10/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.98  
 % Moisture.....: 21    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 460    | 310       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 620       | ug/kg |
| Benzene                           | 70     | 38        | ug/kg |
| Toluene                           | ND     | 310       | ug/kg |
| Ethylbenzene                      | 1200   | 310       | ug/kg |
| Naphthalene                       | 510    | 310       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 101      | (44 - 142) |
| 4-Bromofluorobenzene  | 103      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 93       | (43 - 147) |
| Toluene-d8            | 111      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-6-15

GC/MS Volatiles

Lot-Sample #...: G5F100238-004    Work Order #...: HDDQN1AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/10/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.92  
 ‡ Moisture.....: 28    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING LIMIT | UNITS |
|-----------------------------------|--------|-----------------|-------|
| Xylenes (total)                   | ND     | 320             | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 640             | ug/kg |
| Benzene                           | ND     | 42              | ug/kg |
| Toluene                           | 190 J  | 320             | ug/kg |
| Ethylbenzene                      | ND     | 320             | ug/kg |
| Naphthalene                       | ND     | 320             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 99               | (44 - 142)      |
| 4-Bromofluorobenzene  | 96               | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 93               | (43 - 147)      |
| Toluene-d8            | 107              | (47 - 145)      |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-7-5

GC/MS Volatiles

Lot-Sample #...: G5F100238-005    Work Order #...: HDDQQ1AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/10/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.87  
 % Moisture.....: 19    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING LIMIT | UNITS |
|-----------------------------------|--------|-----------------|-------|
| Xylenes (total)                   | 4600   | 270             | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 540             | ug/kg |
| Benzene                           | 1900   | 37              | ug/kg |
| Toluene                           | 250 J  | 270             | ug/kg |
| Ethylbenzene                      | 1500   | 270             | ug/kg |
| Naphthalene                       | ND     | 270             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 103              | (44 - 142)      |
| 4-Bromofluorobenzene  | 102              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 101              | (43 - 147)      |
| Toluene-d8            | 114              | (47 - 145)      |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-7-10

GC/MS Volatiles

Lot-Sample #...: G5F100238-006    Work Order #...: HDDQT1AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/10/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.99  
 % Moisture.....: 24    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 320       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 650       | ug/kg |
| Benzene                           | ND     | 39        | ug/kg |
| Toluene                           | ND     | 320       | ug/kg |
| Ethylbenzene                      | ND     | 320       | ug/kg |
| Naphthalene                       | ND     | 320       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 97       | (44 - 142) |
| 4-Bromofluorobenzene  | 100      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 92       | (43 - 147) |
| Toluene-d8            | 107      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-7-15

GC/MS Volatiles

Lot-Sample #...: G5F100238-007    Work Order #...: HDDQW1AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/10/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 1.33  
 % Moisture.....: 84    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING LIMIT | UNITS |
|-----------------------------------|----------|-----------------|-------|
| Xylenes (total)                   | 850 J    | 2000            | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 4100            | ug/kg |
| Benzene                           | 1000     | 240             | ug/kg |
| Toluene                           | ND       | 2000            | ug/kg |
| Ethylbenzene                      | ND       | 2000            | ug/kg |
| Naphthalene                       | ND       | 2000            | ug/kg |
|                                   | PERCENT  | RECOVERY        |       |
| SURROGATE                         | RECOVERY | LIMITS          |       |
| Dibromofluoromethane              | 99       | (44 - 142)      |       |
| 4-Bromofluorobenzene              | 101      | (41 - 152)      |       |
| 1,2-Dichloroethane-d4             | 98       | (43 - 147)      |       |
| Toluene-d8                        | 106      | (47 - 145)      |       |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-7-20

GC/MS Volatiles

Lot-Sample #....: G5F100238-008    Work Order #....: HDDQ01AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/10/05  
 Prep Batch #....: 5165316  
 Dilution Factor: 1.34  
 % Moisture.....: 37    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 530       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 1100      | ug/kg |
| Benzene                           | ND     | 64        | ug/kg |
| Toluene                           | ND     | 530       | ug/kg |
| Ethylbenzene                      | ND     | 530       | ug/kg |
| Naphthalene                       | ND     | 530       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 102      | (44 - 142) |
| 4-Bromofluorobenzene  | 100      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 97       | (43 - 147) |
| Toluene-d8            | 109      | (47 - 145) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-55-5

GC/MS Volatiles

Lot-Sample #...: G5F100238-009    Work Order #...: HDDQ31AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/10/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.9  
 % Moisture.....: 25    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 300       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 600       | ug/kg |
| Benzene                           | ND     | 40        | ug/kg |
| Toluene                           | ND     | 300       | ug/kg |
| Ethylbenzene                      | ND     | 300       | ug/kg |
| Naphthalene                       | 720    | 300       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 103      | (44 - 142) |
| 4-Bromofluorobenzene  | 102      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 101      | (43 - 147) |
| Toluene-d8            | 111      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: MW-55-9

GC/MS Volatiles

Lot-Sample #...: G5F100238-010    Work Order #...: HDDQ61AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/11/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.75  
 % Moisture.....: 8.4    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 200       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 410       | ug/kg |
| Benzene                           | ND     | 33        | ug/kg |
| Toluene                           | ND     | 200       | ug/kg |
| Ethylbenzene                      | ND     | 200       | ug/kg |
| Naphthalene                       | ND     | 200       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 98       | (44 - 142) |
| 4-Bromofluorobenzene  | 101      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 100      | (43 - 147) |
| Toluene-d8            | 109      | (47 - 145) |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-55-15

GC/MS Volatiles

Lot-Sample #...: G5F100238-011    Work Order #...: HDDQ91AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 3.81  
 % Moisture.....: 74    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 3700      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 7300      | ug/kg |
| Benzene                           | ND     | 440       | ug/kg |
| Toluene                           | ND     | 3700      | ug/kg |
| Ethylbenzene                      | ND     | 3700      | ug/kg |
| Naphthalene                       | 45000  | 3700      | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 106      | (44 - 142) |
| 4-Bromofluorobenzene  | 105      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 104      | (43 - 147) |
| Toluene-d8            | 113      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-55-20

GC/MS Volatiles

Lot-Sample #...: G5F100238-012    Work Order #...: HDDRALAA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/14/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 5  
 % Moisture.....: 52    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |      |
|-----------------------------------|--------|-----------|-------|------|
|                                   |        | LIMIT     | UNITS | MDL  |
| Xylenes (total)                   | ND     | 2600      | ug/kg | 750  |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 5200      | ug/kg | 2600 |
| Benzene                           | ND     | 310       | ug/kg | 210  |
| Toluene                           | ND     | 2600      | ug/kg | 760  |
| Ethylbenzene                      | ND     | 2600      | ug/kg | 590  |
| Naphthalene                       | 31000  | 2600      | ug/kg | 740  |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 105      | (44 - 142) |
| 4-Bromofluorobenzene  | 106      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 107      | (43 - 147) |
| Toluene-d8            | 115      | (47 - 145) |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-2-5

GC/MS Volatiles

Lot-Sample #...: G5F100238-013    Work Order #...: HDDRG1AA    Matrix.....: SOLID  
Date Sampled...: 06/08/05    Date Received...: 06/10/05  
Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
Prep Batch #...: 5165316  
Dilution Factor: 0.89  
% Moisture.....: 25    Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |       |
|-----------------------------------|-----------------|---------------|-------|
|                                   |                 | LIMIT         | UNITS |
| Xylenes (total)                   | ND              | 300           | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 590           | ug/kg |
| Benzene                           | ND              | 40            | ug/kg |
| Toluene                           | ND              | 300           | ug/kg |
| Ethylbenzene                      | ND              | 300           | ug/kg |
| Naphthalene                       | ND              | 300           | ug/kg |
|                                   | PERCENT         | RECOVERY      |       |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |       |
| Dibromofluoromethane              | 100             | (44 - 142)    |       |
| 4-Bromofluorobenzene              | 107             | (41 - 152)    |       |
| 1,2-Dichloroethane-d4             | 98              | (43 - 147)    |       |
| Toluene-d8                        | 112             | (47 - 145)    |       |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-2-10

GC/MS Volatiles

Lot-Sample #...: G5F100238-014    Work Order #...: HDDTHLAA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.78  
 % Moisture.....: 12    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 220       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 440       | ug/kg |
| Benzene                           | ND     | 34        | ug/kg |
| Toluene                           | ND     | 220       | ug/kg |
| Ethylbenzene                      | ND     | 220       | ug/kg |
| Naphthalene                       | ND     | 220       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 98       | (44 - 142) |
| 4-Bromofluorobenzene  | 107      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 98       | (43 - 147) |
| Toluene-d8            | 110      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-2-12

GC/MS Volatiles

Lot-Sample #...: G5F100238-015    Work Order #...: HDDTK1AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.83  
 % Moisture.....: 15    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | ND     | 250                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 490                | ug/kg |
| Benzene                           | ND     | 35                 | ug/kg |
| Toluene                           | ND     | 250                | ug/kg |
| Ethylbenzene                      | ND     | 250                | ug/kg |
| Naphthalene                       | ND     | 250                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 99                  | (44 - 142)         |
| 4-Bromofluorobenzene  | 110                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 99                  | (43 - 147)         |
| Toluene-d8            | 111                 | (47 - 145)         |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-2-20

GC/MS Volatiles

Lot-Sample #...: G5F100238-016    Work Order #...: HDDTM1AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.86  
 % Moisture.....: 31    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING</u> |              |
|-----------------------------------|---------------|------------------|--------------|
|                                   |               | <u>LIMIT</u>     | <u>UNITS</u> |
| Xylenes (total)                   | ND            | 310              | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 620              | ug/kg        |
| Benzene                           | ND            | 43               | ug/kg        |
| Toluene                           | ND            | 310              | ug/kg        |
| Ethylbenzene                      | ND            | 310              | ug/kg        |
| Naphthalene                       | ND            | 310              | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT</u>  | <u>RECOVERY</u> |
|-----------------------|-----------------|-----------------|
|                       | <u>RECOVERY</u> | <u>LIMITS</u>   |
| Dibromofluoromethane  | 99              | (44 - 142)      |
| 4-Bromofluorobenzene  | 107             | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 97              | (43 - 147)      |
| Toluene-d8            | 110             | (47 - 145)      |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-3A-5

GC/MS Volatiles

Lot-Sample #...: G5F100238-017    Work Order #...: HDDTP1AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 0.87  
 % Moisture.....: 20    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | 340           | 270                    | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 550                    | ug/kg        |
| Benzene                           | 48            | 38                     | ug/kg        |
| Toluene                           | ND            | 270                    | ug/kg        |
| Ethylbenzene                      | ND            | 270                    | ug/kg        |
| Naphthalene                       | ND            | 270                    | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 102                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 112                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 99                      | (43 - 147)             |
| Toluene-d8            | 116                     | (47 - 145)             |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-3A-8

GC/MS Volatiles

Lot-Sample #: G5F100238-018    Work Order #: HDDTW1AA    Matrix: SOLID  
 Date Sampled: 06/08/05    Date Received: 06/10/05  
 Prep Date: 06/10/05    Analysis Date: 06/13/05  
 Prep Batch #: 5165316  
 Dilution Factor: 1.03  
 % Moisture: 24    Method: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | 210 J    | 340        | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 670        | ug/kg |
| Benzene                           | 57       | 40         | ug/kg |
| Toluene                           | ND       | 340        | ug/kg |
| Ethylbenzene                      | ND       | 340        | ug/kg |
| Naphthalene                       | 100 J    | 340        | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 108      | (44 - 142) |       |
| 4-Bromofluorobenzene              | 120      | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 109      | (43 - 147) |       |
| Toluene-d8                        | 123      | (47 - 145) |       |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-3A-10

GC/MS Volatiles

Lot-Sample #....: G5F100238-019    Work Order #....: HDDT21AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/14/05  
 Prep Batch #....: 5165316  
 Dilution Factor: 82  
 ‡ Moisture.....: 11    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | 790000 Q | 23000      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 46000      | ug/kg |
| Benzene                           | 6900     | 2800       | ug/kg |
| Toluene                           | 240000   | 23000      | ug/kg |
| Ethylbenzene                      | 140000   | 23000      | ug/kg |
| Naphthalene                       | 59000    | 23000      | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 0.0 SRD  | (44 - 142) |       |
| 4-Bromofluorobenzene              | 0.0 SRD  | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 0.0 SRD  | (43 - 147) |       |
| Toluene-d8                        | 0.0 SRD  | (47 - 145) |       |

**NOTE(S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-3A-12

GC/MS Volatiles

Lot-Sample #...: G5F100238-020    Work Order #...: HDDT41AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/10/05    Analysis Date...: 06/14/05  
 Prep Batch #...: 5165316  
 Dilution Factor: 8.1  
 ‡ Moisture.....: 15    Method.....: SW846 8260B

| PARAMETER                         | RESULT  | REPORTING LIMIT | UNITS |
|-----------------------------------|---------|-----------------|-------|
| Xylenes (total)                   | 59000 Q | 2400            | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND      | 4800            | ug/kg |
| Benzene                           | 610     | 290             | ug/kg |
| Toluene                           | 6400    | 2400            | ug/kg |
| Ethylbenzene                      | 8400    | 2400            | ug/kg |
| Naphthalene                       | 9800    | 2400            | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 0.0 SRD          | (44 - 142)      |
| 4-Bromofluorobenzene  | 0.0 SRD          | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 0.0 SRD          | (43 - 147)      |
| Toluene-d8            | 0.0 SRD          | (47 - 145)      |

**NOTE (S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-3A-14

GC/MS Volatiles

Lot-Sample #...: G5F100238-021    Work Order #...: HDDT71AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5165536  
 Dilution Factor: 0.77  
 % Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 970    | 230       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 460       | ug/kg |
| Benzene                           | ND     | 36        | ug/kg |
| Toluene                           | 170 J  | 230       | ug/kg |
| Ethylbenzene                      | 140 J  | 230       | ug/kg |
| Naphthalene                       | 130 J  | 230       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 111      | (44 - 142) |
| 4-Bromofluorobenzene  | 121      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 107      | (43 - 147) |
| Toluene-d8            | 124      | (47 - 145) |

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-3A-21

GC/MS Volatiles

Lot-Sample #...: G5F100238-022    Work Order #...: HDDVD1AA    Matrix.....: SOLID  
 Date Sampled...: 06/08/05    Date Received...: 06/10/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5165536  
 Dilution Factor: 0.83  
 % Moisture.....: 19    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | ND            | 260                    | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 510                    | ug/kg        |
| Benzene                           | ND            | 37                     | ug/kg        |
| Toluene                           | ND            | 260                    | ug/kg        |
| Ethylbenzene                      | ND            | 260                    | ug/kg        |
| Naphthalene                       | ND            | 260                    | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 104                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 116                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 103                     | (43 - 147)             |
| Toluene-d8            | 120                     | (47 - 145)             |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F100238

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 002            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 003            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 004            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 005            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 006            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 007            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 008            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 009            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 010            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 011            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 012            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 013            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 014            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 015            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 016            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 017            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 018            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 019            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 020            | SOLID         | SW846 8260B                  |                          | 5165316                 |                |
| 021            | SOLID         | SW846 8260B                  |                          | 5165536                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F100238

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 022            | SOLID         | SW846 8260B                  |                          | 5165536                 |                |

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G5F100238      Work Order #...: HDKEG1AA      Matrix.....: SOLID  
 MB Lot-Sample #: G5F140000-316  
 Prep Date.....: 06/10/05  
 Analysis Date...: 06/10/05      Prep Batch #...: 5165316  
 Dilution Factor: 1

| PARAMETER                         | RESULT | REPORTING |       |             |
|-----------------------------------|--------|-----------|-------|-------------|
|                                   |        | LIMIT     | UNITS | METHOD      |
| Xylenes (total)                   | ND     | 250       | ug/kg | SW846 8260B |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 500       | ug/kg | SW846 8260B |
| Benzene                           | ND     | 30        | ug/kg | SW846 8260B |
| Toluene                           | ND     | 250       | ug/kg | SW846 8260B |
| Ethylbenzene                      | ND     | 250       | ug/kg | SW846 8260B |
| Naphthalene                       | ND     | 250       | ug/kg | SW846 8260B |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 97       | (44 - 142) |
| 4-Bromofluorobenzene  | 99       | (41 - 152) |
| 1,2-Dichloroethane-d4 | 90       | (43 - 147) |
| Toluene-d8            | 105      | (47 - 145) |

**NOTE(S):**

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



METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: G5F100238      Work Order #....: HDM171AA      Matrix.....: SOLID  
 MB Lot-Sample #: G5F140000-536  
 Prep Date.....: 06/10/05  
 Analysis Date...: 06/10/05      Prep Batch #....: 5165536  
 Dilution Factor: 1

| PARAMETER                         | RESULT | REPORTING |       |             |
|-----------------------------------|--------|-----------|-------|-------------|
|                                   |        | LIMIT     | UNITS | METHOD      |
| Xylenes (total)                   | ND     | 250       | ug/kg | SW846 8260B |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 500       | ug/kg | SW846 8260B |
| Benzene                           | ND     | 36        | ug/kg | SW846 8260B |
| Toluene                           | ND     | 250       | ug/kg | SW846 8260B |
| Ethylbenzene                      | ND     | 250       | ug/kg | SW846 8260B |
| Naphthalene                       | ND     | 250       | ug/kg | SW846 8260B |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 99       | (44 - 142) |
| 4-Bromofluorobenzene  | 101      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 97       | (43 - 147) |
| Toluene-d8            | 107      | (47 - 145) |

**NOTE(S):**

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: G5F100238      Work Order #....: HDKEG1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F140000-316      HDKEG1AD-LCSD  
 Prep Date.....: 06/10/05      Analysis Date...: 06/10/05  
 Prep Batch #....: 5165316

| <u>PARAMETER</u>                  | <u>SPIKE</u><br><u>AMOUNT</u> | <u>MEASURED</u><br><u>AMOUNT</u> | <u>UNITS</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RPD</u>   | <u>METHOD</u>      |
|-----------------------------------|-------------------------------|----------------------------------|--------------|-----------------------------------|--------------|--------------------|
| Methyl tert-butyl ether<br>(MTBE) | 1000                          | 974                              | ug/kg        | 97                                |              | SW846 8260B        |
|                                   | 1000                          | 980                              | ug/kg        | 98                                | 0.64         | SW846 8260B        |
| <b>Benzene</b>                    | <b>1000</b>                   | <b>938</b>                       | <b>ug/kg</b> | <b>94</b>                         |              | <b>SW846 8260B</b> |
|                                   | <b>1000</b>                   | <b>936</b>                       | <b>ug/kg</b> | <b>94</b>                         | <b>0.24</b>  | <b>SW846 8260B</b> |
| <b>Toluene</b>                    | <b>1000</b>                   | <b>1030</b>                      | <b>ug/kg</b> | <b>103</b>                        |              | <b>SW846 8260B</b> |
|                                   | <b>1000</b>                   | <b>1000</b>                      | <b>ug/kg</b> | <b>100</b>                        | <b>2.4</b>   | <b>SW846 8260B</b> |
| <b>Ethylbenzene</b>               | <b>1000</b>                   | <b>1080</b>                      | <b>ug/kg</b> | <b>108</b>                        |              | <b>SW846 8260B</b> |
|                                   | <b>1000</b>                   | <b>1090</b>                      | <b>ug/kg</b> | <b>109</b>                        | <b>0.53</b>  | <b>SW846 8260B</b> |
| <b>Naphthalene</b>                | <b>1000</b>                   | <b>1070</b>                      | <b>ug/kg</b> | <b>107</b>                        |              | <b>SW846 8260B</b> |
|                                   | <b>1000</b>                   | <b>1070</b>                      | <b>ug/kg</b> | <b>107</b>                        | <b>0.080</b> | <b>SW846 8260B</b> |

| <u>SURROGATE</u>      | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|-----------------------|-----------------------------------|----------------------------------|
| Dibromofluoromethane  | 100                               | (44 - 142)                       |
|                       | 96                                | (44 - 142)                       |
| 4-Bromofluorobenzene  | 101                               | (41 - 152)                       |
|                       | 103                               | (41 - 152)                       |
| 1,2-Dichloroethane-d4 | 91                                | (43 - 147)                       |
|                       | 90                                | (43 - 147)                       |
| Toluene-d8            | 106                               | (47 - 145)                       |
|                       | 105                               | (47 - 145)                       |

**NOTE(S):**

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

Bold print denotes control parameters

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

Client Lot #...: G5F100238      Work Order #...: HDKEG1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F140000-316      HDKEG1AD-LCSD  
 Prep Date.....: 06/10/05      Analysis Date...: 06/10/05  
 Prep Batch #...: 5165316

| <u>PARAMETER</u>                  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u>   | <u>RPD LIMITS</u> | <u>METHOD</u>      |
|-----------------------------------|-------------------------|------------------------|--------------|-------------------|--------------------|
| Methyl tert-butyl ether<br>(MTBE) | 97                      | (70 - 120)             |              |                   | SW846 8260B        |
|                                   | 98                      | (70 - 120)             | 0.64         | (0-36)            | SW846 8260B        |
| <b>Benzene</b>                    | <b>94</b>               | <b>(76 - 120)</b>      |              |                   | <b>SW846 8260B</b> |
|                                   | <b>94</b>               | <b>(76 - 120)</b>      | <b>0.24</b>  | <b>(0-24)</b>     | <b>SW846 8260B</b> |
| <b>Toluene</b>                    | <b>103</b>              | <b>(79 - 120)</b>      |              |                   | <b>SW846 8260B</b> |
|                                   | <b>100</b>              | <b>(79 - 120)</b>      | <b>2.4</b>   | <b>(0-17)</b>     | <b>SW846 8260B</b> |
| <b>Ethylbenzene</b>               | <b>108</b>              | <b>(79 - 120)</b>      |              |                   | <b>SW846 8260B</b> |
|                                   | <b>109</b>              | <b>(79 - 120)</b>      | <b>0.53</b>  | <b>(0-20)</b>     | <b>SW846 8260B</b> |
| <b>Naphthalene</b>                | <b>107</b>              | <b>(64 - 133)</b>      |              |                   | <b>SW846 8260B</b> |
|                                   | <b>107</b>              | <b>(64 - 133)</b>      | <b>0.080</b> | <b>(0-47)</b>     | <b>SW846 8260B</b> |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 100                     | (44 - 142)             |
|                       | 96                      | (44 - 142)             |
| 4-Bromofluorobenzene  | 101                     | (41 - 152)             |
|                       | 103                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 91                      | (43 - 147)             |
|                       | 90                      | (43 - 147)             |
| Toluene-d8            | 106                     | (47 - 145)             |
|                       | 105                     | (47 - 145)             |

**NOTE (S) :**

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G5F100238      Work Order #...: HDML71AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F140000-536      HDML71AD-LCSD  
 Prep Date.....: 06/10/05      Analysis Date...: 06/10/05  
 Prep Batch #...: 5165536

| <u>PARAMETER</u>                  | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> | <u>RPD</u> | <u>RPD<br/>LIMITS</u> | <u>METHOD</u> |
|-----------------------------------|-----------------------------|----------------------------|------------|-----------------------|---------------|
| Methyl tert-butyl ether<br>(MTBE) | 89                          | (70 - 120)                 |            |                       | SW846 8260B   |
|                                   | 91                          | (70 - 120)                 | 2.0        | (0-36)                | SW846 8260B   |
| Benzene                           | 97                          | (76 - 120)                 |            |                       | SW846 8260B   |
|                                   | 96                          | (76 - 120)                 | 1.5        | (0-24)                | SW846 8260B   |
| Toluene                           | 102                         | (79 - 120)                 |            |                       | SW846 8260B   |
|                                   | 103                         | (79 - 120)                 | 0.97       | (0-17)                | SW846 8260B   |
| Ethylbenzene                      | 105                         | (79 - 120)                 |            |                       | SW846 8260B   |
|                                   | 106                         | (79 - 120)                 | 0.82       | (0-20)                | SW846 8260B   |
| Naphthalene                       | 78                          | (64 - 133)                 |            |                       | SW846 8260B   |
|                                   | 114                         | (64 - 133)                 | 37         | (0-47)                | SW846 8260B   |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 100                         | (44 - 142)                 |
|                       | 101                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 94                          | (41 - 152)                 |
|                       | 100                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 94                          | (43 - 147)                 |
|                       | 94                          | (43 - 147)                 |
| Toluene-d8            | 106                         | (47 - 145)                 |
|                       | 108                         | (47 - 145)                 |

**NOTE (S) :**

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

Bold print denotes control parameters



# STL

**STL Seattle**  
5755 8<sup>th</sup> Street East  
Tacoma, WA 98424

Tel: 253 922 2310  
Fax: 253 922 5047  
[www.stl-inc.com](http://www.stl-inc.com)

## TRANSMITTAL MEMORANDUM

DATE: June 21, 2005

TO: Eric Larsen  
Delta Environmental  
17720 NE 65th Street Ste 201  
Redmond, WA 98052

PROJECT: WA255-3510-1/255353 Seattle

REPORT NUMBER: 128334

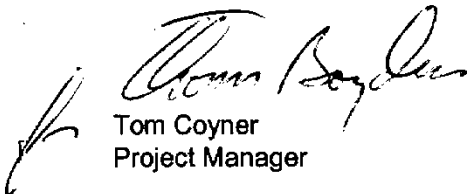
TOTAL NUMBER OF PAGES: \_\_\_\_\_

Enclosed are the test results for twenty-nine samples received at STL Seattle on June 10, 2005. NWTPH-Gx and volatile organics analysis was performed at STL Sacramento.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,



Tom Coyner  
Project Manager

---

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# STL Seattle

## Sample Identification:

| <u>Lab. No.</u> | <u>Client ID</u> | <u>Date/Time Sampled</u> | <u>Matrix</u> |
|-----------------|------------------|--------------------------|---------------|
| 128334-1        | SB-8-5           | 06-09-05 07:37           | solid         |
| 128334-2        | SB-8-8           | 06-09-05 07:45           | solid         |
| 128334-3        | SB-8-10          | 06-09-05 07:51           | solid         |
| 128334-4        | SB-8-12          | 06-09-05 07:57           | solid         |
| 128334-5        | SB-8-15          | 06-09-05 08:15           | solid         |
| 128334-6        | SB-8-18          | 06-09-05 08:44           | solid         |
| 128334-7        | SB-8-20          | 06-09-05 08:38           | solid         |
| 128334-8        | MW-56-5          | 06-09-05 09:18           | solid         |
| 128334-9        | MW-56-9          | 06-09-05 09:37           | solid         |
| 128334-10       | MW-56-10         | 06-09-05 09:42           | solid         |
| 128334-11       | MW-56-12         | 06-09-05 09:55           | solid         |
| 128334-12       | MW-56-15         | 06-09-05 10:00           | solid         |
| 128334-13       | MW-56-18         | 06-09-05 10:14           | solid         |
| 128334-14       | MW-56-20         | 06-09-05 10:19           | solid         |
| 128334-15       | SB-9-5           | 06-09-05 12:05           | solid         |
| 128334-16       | SB-9-8           | 06-09-05 12:10           | solid         |
| 128334-17       | SB-9-9           | 06-09-05 12:17           | solid         |
| 128334-18       | SB-9-10          | 06-09-05 12:20           | solid         |
| 128334-19       | SB-9-12          | 06-09-05 12:25           | solid         |
| 128334-20       | SB-9-14          | 06-09-05 12:30           | solid         |
| 128334-21       | SB-9-15          | 06-09-05 12:37           | solid         |
| 128334-22       | SB-9-17          | 06-09-05 12:45           | solid         |
| 128334-23       | SB-9-18          | 06-09-05 12:51           | solid         |
| 128334-24       | SB-9-20          | 06-09-05 12:55           | solid         |
| 128334-25       | SB-10-5          | 06-09-05 14:00           | solid         |
| 128334-26       | SB-10-10         | 06-09-05 14:10           | solid         |
| 128334-27       | SB-10-12         | 06-09-05 14:15           | solid         |
| 128334-28       | SB-10-15         | 06-09-05 14:30           | solid         |
| 128334-29       | SB-10-20         | 06-09-05 14:40           | solid         |

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# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-8-5              |
| Lab ID:         | 128334-01           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 76.83               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 111        |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 30.9 |       |
| Motor Oil | ND             | 61.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-8-8              |
| Lab ID:         | 128334-02           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 79.45               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 117        |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 31.1 |       |
| Motor Oil | ND             | 62.1 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-8-10             |
| Lab ID:         | 128334-03           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 91.32               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 105        |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26   |       |
| Motor Oil | ND             | 51.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-8-12             |
| Lab ID:         | 128334-04           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 86.97               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 113        |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.6 |       |
| Motor Oil | ND             | 55.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-8-15             |
| Lab ID:         | 128334-05           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 42.83               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 122        |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL  | Flags |
|-----------|----------------|-----|-------|
| #2 Diesel | 373            | 56  | X2    |
| Motor Oil | 333            | 112 | X2    |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-8-18             |
| Lab ID:         | 128334-06           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 33.42               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 100        |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 3400           | 74.1 | X2    |
| Motor Oil | 1220           | 148  | X2    |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-8-20             |
| Lab ID:         | 128334-07           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 46                  |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 118        |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 155            | 50.1 | X2    |
| Motor Oil | ND             | 100  |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-56-5             |
| Lab ID:         | 128334-08           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 79.62               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 75         |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 30.3 |       |
| Motor Oil | ND             | 60.6 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-56-9             |
| Lab ID:         | 128334-09           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 78.72               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 73.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 30.6 |       |
| Motor Oil | ND             | 61.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-56-10            |
| Lab ID:         | 128334-10           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 83.34               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 70.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.6 |       |
| Motor Oil | ND             | 55.3 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-56-12            |
| Lab ID:         | 128334-11           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 87.24               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 80.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.4 |       |
| Motor Oil | ND             | 54.7 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-56-15            |
| Lab ID:         | 128334-12           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 83                  |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 74.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | 100            | 30 | X1    |
| Motor Oil | 278            | 60 |       |

X1 - Chromatogram suggests this might be overlap from motor oil range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-56-18            |
| Lab ID:         | 128334-13           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 46.14               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 66.3       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 53.1 |       |
| Motor Oil | ND             | 106  |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-56-20            |
| Lab ID:         | 128334-14           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 32.19               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 65.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 75.3 |       |
| Motor Oil | ND             | 151  |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-9-5              |
| Lab ID:         | 128334-15           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 89.12               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 88.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.4 |       |
| Motor Oil | ND             | 52.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-9-8              |
| Lab ID:         | 128334-16           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 82.78               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 80.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 29.8 |       |
| Motor Oil | ND             | 59.6 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-9-9              |
| Lab ID:         | 128334-17           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 90.05               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 89.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.6 |       |
| Motor Oil | ND             | 55.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-9-10             |
| Lab ID:         | 128334-18           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 88.2                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 69.5       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.9 |       |
| Motor Oil | ND             | 53.7 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-9-12             |
| Lab ID:         | 128334-19           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 88.39               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 77         |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 96.8           | 27.6 | X1    |
| Motor Oil | ND             | 55.3 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-9-14             |
| Lab ID:         | 128334-20           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 96.75               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 82.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 1240           | 25.1 | X1    |
| Motor Oil | ND             | 50.2 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-9-15             |
| Lab ID:         | 128334-21           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 85.44               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 77.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 29.2 |       |
| Motor Oil | ND             | 58.4 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-9-17             |
| Lab ID:         | 128334-22           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 88.84               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 80.1       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 25.7 |       |
| Motor Oil | ND             | 51.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-9-18             |
| Lab ID:         | 128334-23           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 83.49               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 86.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.6 |       |
| Motor Oil | ND             | 55.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-9-20             |
| Lab ID:         | 128334-24           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 83.78               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 76.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.7 |       |
| Motor Oil | ND             | 53.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-10-5             |
| Lab ID:         | 128334-25           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 83.29               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 72.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.9 |       |
| Motor Oil | ND             | 55.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-10-10            |
| Lab ID:         | 128334-26           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 88.14               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 92.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 1910           | 26   | X1    |
| Motor Oil | ND             | 52.1 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-10-12            |
| Lab ID:         | 128334-27           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 78.24               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 75.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 31.1 |       |
| Motor Oil | ND             | 62.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-10-15            |
| Lab ID:         | 128334-28           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 84.26               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 75.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.8 |       |
| Motor Oil | ND             | 55.7 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-10-20            |
| Lab ID:         | 128334-29           |
| Date Received:  | 6/10/2005           |
| Date Prepared:  | 6/13/2005           |
| Date Analyzed:  | 6/13/2005           |
| % Solids        | 79.66               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 74.5       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28   |       |
| Motor Oil | ND             | 55.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-8-5              |
| Lab ID:         | 128334-01           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 76.83               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | 16.4              | 2.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-8-8              |
| Lab ID:         | 128334-02           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.45               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.49 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-8-10             |
| Lab ID:         | 128334-03           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 91.32               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 20.2              | 1.65 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-8-12             |
| Lab ID:         | 128334-04           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 86.97               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 40.1              | 1.74 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-8-15             |
| Lab ID:         | 128334-05           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 42.83               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 45.8              | 4.63 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-8-18             |
| Lab ID:         | 128334-06           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 33.42               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 21.2              | 5.33 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-8-20             |
| Lab ID:         | 128334-07           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 46                  |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 15.5              | 3.94 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-56-5             |
| Lab ID:         | 128334-08           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.62               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 5.23              | 2.32 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-56-9             |
| Lab ID:         | 128334-09           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 78.72               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | 4.41              | 2.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-56-10            |
| Lab ID:         | 128334-10           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 83.34               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 4.5               | 2.13 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-56-12            |
| Lab ID:         | 128334-11           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 87.24               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 2.25              | 1.87 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-56-15            |
| Lab ID:         | 128334-12           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 83                  |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | 2.91              | 2.1 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-56-18            |
| Lab ID:         | 128334-13           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 46.14               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 9.83              | 4.19 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-56-20            |
| Lab ID:         | 128334-14           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 32.19               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 14                | 5.85 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-9-5              |
| Lab ID:         | 128334-15           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 89.12               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 3.82              | 1.92 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-9-8              |
| Lab ID:         | 128334-16           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 82.78               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 4.84              | 2.12 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-9-9              |
| Lab ID:         | 128334-17           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 90.05               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 1.77 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-9-10             |
| Lab ID:         | 128334-18           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 88.2                |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 19.5              | 2.21 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-9-12             |
| Lab ID:         | 128334-19           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 88.39               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 5.15              | 2.17 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-9-14             |
| Lab ID:         | 128334-20           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 96.75               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 12.6              | 1.87 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-9-15             |
| Lab ID:         | 128334-21           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 85.44               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.29 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-9-17             |
| Lab ID:         | 128334-22           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 88.84               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 1.92 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-9-18             |
| Lab ID:         | 128334-23           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 83.49               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 1.94 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-9-20             |
| Lab ID:         | 128334-24           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 83.78               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.17 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-10-5             |
| Lab ID:         | 128334-25           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 83.29               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 2.18              | 1.83 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-10-10            |
| Lab ID:         | 128334-26           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 88.14               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 117               | 2.01 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-10-12            |
| Lab ID:         | 128334-27           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 78.24               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.28 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-10-15            |
| Lab ID:         | 128334-28           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 84.26               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.29 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-10-20            |
| Lab ID:         | 128334-29           |
| Date Received:  | 6/10/05             |
| Date Prepared:  | 6/13/05             |
| Date Analyzed:  | 6/14/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.66               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | ND                | 2.2 |       |



# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DS1489 |
| Date Received:  | -                     |
| Date Prepared:  | 6/13/2005             |
| Date Analyzed:  | 6/13/2005             |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 103        |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 25 |       |
| Motor Oil | ND             | 50 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DS1490 |
| Date Received:  | -                     |
| Date Prepared:  | 6/13/2005             |
| Date Analyzed:  | 6/13/2005             |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 86.1       |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 25 |       |
| Motor Oil | ND             | 50 |       |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DS1489  
Date Prepared: 6/13/2005  
Date Analyzed: 6/13/2005  
QC Batch ID: DS1489

### Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|-----|------|
| #2 Diesel     | 18                   | 500                  | 471               | 90.6      | 483                | 92.9       | 2.5 |      |
| Motor Oil     | 0                    | 500                  | 486               | 97.3      | 498                | 99.7       | 2.4 |      |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DS1490  
Date Prepared: 6/13/2005  
Date Analyzed: 6/13/2005  
QC Batch ID: DS1490

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|-----|------|
| #2 Diesel     | 21                   | 500                  | 550               | 106       | 478                | 91.5       | -15 |      |
| Motor Oil     | 0                    | 500                  | 562               | 112       | 494                | 98.9       | -12 |      |

# STL Seattle

## Duplicate Report

|                   |           |
|-------------------|-----------|
| Client Sample ID: | SB-8-5    |
| Lab ID:           | 128334-01 |
| Date Prepared:    | 6/13/2005 |
| Date Analyzed:    | 6/13/2005 |
| QC Batch ID:      | DS1489    |

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| <b>Parameter Name</b> | <b>Sample Result (mg/kg)</b> | <b>Duplicate Result (mg/kg)</b> | <b>RPD %</b> | <b>Flag</b> |
|-----------------------|------------------------------|---------------------------------|--------------|-------------|
| #2 Diesel             | 0                            | 0                               | NC           |             |
| Motor Oil             | 0                            | 0                               | NC           |             |

# STL Seattle

## Duplicate Report

Client Sample ID: MW-56-12  
Lab ID: 128334-11  
Date Prepared: 6/13/2005  
Date Analyzed: 6/13/2005  
QC Batch ID: DS1489

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| <b>Parameter Name</b> | <b>Sample Result (mg/kg)</b> | <b>Duplicate Result (mg/kg)</b> | <b>RPD %</b> | <b>Flag</b> |
|-----------------------|------------------------------|---------------------------------|--------------|-------------|
| #2 Diesel             | 0                            | 0                               | NC           |             |
| Motor Oil             | 0                            | 0                               | NC           |             |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-9-15  
Lab ID: 128334-21  
Date Prepared: 6/13/2005  
Date Analyzed: 6/13/2005  
QC Batch ID: DS1490

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| <b>Parameter Name</b> | <b>Sample Result (mg/kg)</b> | <b>Duplicate Result (mg/kg)</b> | <b>RPD %</b> | <b>Flag</b> |
|-----------------------|------------------------------|---------------------------------|--------------|-------------|
| #2 Diesel             | 0                            | 0                               | NC           |             |
| Motor Oil             | 0                            | 0                               | NC           |             |

# STL Seattle

|                  |                       |
|------------------|-----------------------|
| Lab ID:          | Method Blank - SP1315 |
| Date Received:   | -                     |
| Date Prepared:   | 6/13/05               |
| Date Analyzed:   | 6/14/05               |
| Dilution Factor: | 1                     |

## Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

| Analyte | Result<br>(mg/kg) | RL | Flags |
|---------|-------------------|----|-------|
| Lead    | ND                | 2  |       |



# STL Seattle

|                  |                       |
|------------------|-----------------------|
| Lab ID:          | Method Blank - SP1317 |
| Date Received:   | -                     |
| Date Prepared:   | 6/13/05               |
| Date Analyzed:   | 6/14/05               |
| Dilution Factor: | 1                     |

## Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

| Analyte | Result<br>(mg/kg) | RL | Flags |
|---------|-------------------|----|-------|
| Lead    | ND                | 2  |       |

# STL Seattle

## Matrix Spike Report

Client Sample ID: SB-8-5  
Lab ID: 128334-01  
Date Prepared: 6/13/05  
Date Analyzed: 6/14/05  
QC Batch ID: SP1315

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Spike Amount (mg/kg) | MS Result (mg/kg) | MS % Rec. | Flag |
|----------------|-----------------------|----------------------|-------------------|-----------|------|
| Lead           | 16.4                  | 113                  | 116               | 88        |      |

# STL Seattle

## Matrix Spike Report

Client Sample ID: SB-9-15  
Lab ID: 128334-21  
Date Prepared: 6/13/05  
Date Analyzed: 6/14/05  
QC Batch ID: SP1317

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Spike Amount (mg/kg) | MS Result (mg/kg) | MS % Rec. | Flag |
|----------------|-----------------------|----------------------|-------------------|-----------|------|
| Lead           | 0                     | 104                  | 103               | 99        |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-8-5  
Lab ID: 128334-01  
Date Prepared: 6/13/05  
Date Analyzed: 6/14/05  
QC Batch ID: SP1315

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| Lead           | 16                    | 12                       | 29.0  |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-9-15  
Lab ID: 128334-21  
Date Prepared: 6/13/05  
Date Analyzed: 6/14/05  
QC Batch ID: SP1317

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| Lead           | 0                     | 0                        | NC    |      |

**DATA QUALIFIERS AND ABBREVIATIONS**

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- C3: Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be ≤ 30%.
- C4: Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The original analysis was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- RL: Reporting Limit
- N: See analytical narrative
- ND: Not Detected
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be \_\_\_\_\_.
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.

Client **Conoco Phillips c/o Delta Env** Project Manager **Eric Larsen/larsen@deltaenv.com** Date **6-9-05** Chain of Custody Number **16095**  
Address **17720 NE 65th St. Suite 201** Telephone Number (Area Code)/Fax Number **425-558-0134** Lab Number **128334** Page **1** of **3**  
City **Redmond** State **WA** Zip Code **98052** Site Contact **Tom Coyne** Lab Contact **Tom Coyne** Analysis (Attach list if more space is needed)

Project Name and Location (State) **WA255-3510-1 / 255353 Seattle**  
Contract/Purchase Order/Quote No. **WO# : 1396DELE010**

| Sample I.D. and Location/Description (Containers for each sample may be combined on one line) | Date          | Time         | Matrix   |     |     |      |         |       |      | Containers & Preservatives |      |      |      |  |  |  |             |                 |                        |                             |                   |
|---|---------------|--------------|----------|-----|-----|------|---------|-------|------|----------------------------|------|------|------|--|--|--|-------------|-----------------|------------------------|-----------------------------|-------------------|
|   |               |              | Aqueous  | Sol | Sed | Soil | Urpres. | H2SO4 | HNO3 | HCl                        | NaOH | ZnAc | NaOH |  |  |  |             |                 |                        |                             |                   |
| <b>SB-8-5</b>   | <b>6/9/05</b> | <b>7:57</b>  | <b>X</b> |     |     |      |         |       |      |                            |      |      |      |  |  |  | <b>Meth</b> | <b>NMTPH-Gx</b> | <b>BTX+M+N (82608)</b> | <b>NMTPH-Dx d/s cleanup</b> | <b>Total Lead</b> |
| <b>SB-8-8</b>   |               | <b>7:45</b>  |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |
| <b>SB-8-10</b>  |               | <b>7:51</b>  |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |
| <b>SB-8-12</b>  |               | <b>7:57</b>  |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |
| <b>SB-8-15</b>  |               | <b>8:15</b>  |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |
| <b>SB-8-18</b>  |               | <b>8:44</b>  |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |
| <b>SB-8-20</b>  |               | <b>8:38</b>  |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |
| <b>MW-56-5</b>  |               | <b>9:18</b>  |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |
| <b>MW-56-9</b>  |               | <b>9:37</b>  |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |
| <b>MW-56-10</b>   |               | <b>9:42</b>  |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |
| <b>MW-56-12</b>   |               | <b>9:55</b>  |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |
| <b>MW-56-15</b>   |               | <b>10:00</b> |          |     |     |      |         |       |      |                            |      |      |      |  |  |  |             |                 |                        |                             |                   |

Cooler  Yes  No Cooler Temp: \_\_\_\_\_ Possible Hazard Identification  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Archive For \_\_\_\_\_ Months  Disposal By Lab  
Turn Around Time Required (business days)  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_  
1. Relinquished By **[Signature]** Date **6-10-05** Time **10:35** Received By **[Signature]** Date **6/10/05** Time **10:35**  
2. Relinquished By **[Signature]** Date **6/10/05** Time **12:55** Received By **[Signature]** Date **6/10/05** Time **12:55**  
3. Relinquished By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Received By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Special Instructions/Conditions of Receipt

QC Requirements (Specify)

Comments **Please see our Dix samples with acid/silica gel cleanup**

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

STL8274-580 (12/02)

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.stl-inc.com

## Chain of Custody Record

Client: **Conoco Phillips c/o Delta Env**  
Address: **17720 NE 65th St. Suite 201**  
City: **Redmond** State: **WA** Zip Code: **98052**  
Project Name and Location (State): **WA255-3510-1 / 255353 Seattle**  
Contract/Purchase Order/Quote No.: **NO #: 1396DELOID**

Project Manager: **Eric Larsen / elarsen@deltaenv.com**  
Telephone Number (Area Code)/Fax Number: **425-558-0134**  
Site Contact: **Manager Kifley Tom Coyner**  
Lab Contact: **Tom Coyner**  
Carrier/Waybill Number: \_\_\_\_\_

Date: **6-9-05** Chain of Custody Number: **16096**  
Lab Number: **128334** Page **2** of **3**  
Analysis (Attach list if more space is needed): \_\_\_\_\_

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date   | Time  | Matrix |     |      |        |       |      | Containers & Preservatives |      |           |      |  |  | Special Instructions/<br>Conditions of Receipt |  |  |  |
|--|--------|-------|--------|-----|------|--------|-------|------|----------------------------|------|-----------|------|--|--|--|--|--|--|
|  |        |       | Aq     | Sed | Soil | Umpres | H2SO4 | HNO3 | HCl                        | NaOH | ZnAc/NaOH | MeOH |  |  |  |  |  |  |
| 3 MW-56-18   | 6/9/05 | 10:14 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 4 MW-56-20   |        | 10:19 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 5 SB-9-5   |        | 12:05 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 6 SB-9-8   |        | 12:10 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 7 SB-9-9   |        | 12:17 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 8 SB-9-10  |        | 12:20 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 9 SB-9-12  |        | 12:25 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 10 SB-9-14   |        | 12:30 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 11 SB-9-15   |        | 12:37 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 12 SB-9-17   |        | 12:45 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 23 SB-9-18   |        | 12:51 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |
| 24 SB-9-20   |        | 12:55 | X      |     |      |        |       |      |                            |      |           |      |  |  |  |  |  |  |

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_ Possible Hazard Identification:  Non-Hazard  Flammable  Poison B  Unknown  Skin Irritant  Months: \_\_\_\_\_

Sample Disposal:  Disposal By Lab  Archive For \_\_\_\_\_ Months

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_

1. Relinquished By: *[Signature]* Date: **6/10/05** Time: **10:35**  
 2. Relinquished By: *[Signature]* Date: **6/10/05** Time: **12:55**  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

QC Requirements (Specify):  
 1. Received By: *[Signature]* Date: **6/10/05** Time: **10:35**  
 2. Received By: *[Signature]* Date: **6/10/05** Time: **12:55**  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: **Please run Dx samples with acid/silica gel cleanup**



**Chain of Custody**  
**Custody Record**

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.stl-inc.com

**Client** Conoco Phillips c/o Delta Env  
**Address** 17720 NE 65th St, Ste.201  
**City** Redmond  
**Project Name and Location (State)** WA255-3510-1/255353 Seattle  
**Contract/Purchase Order/Quote No.** WA#: 1396 D9LOID

**Project Manager** E. Larson / elarsen@deltraenv.com  
**Telephone Number (Area Code)/Fax Number** 425-558-0134  
**Site Contact** Kifley  
**Lab Contact** Tom Coyner  
**Carrier/Waybill Number**

**Date** 6-9-2005  
**Lab Number** 128334  
**Page** 3 of 3  
**Chain of Custody Number** 15597

Special Instructions/  
Conditions of Receipt

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date     | Time  | Matrix  |     |         |       |      |     |      | Containers & Preservatives |      |          |                |                      |            |  |  |   |  |  |  |  |  |  |
|--|----------|-------|---------|-----|---------|-------|------|-----|------|----------------------------|------|----------|----------------|----------------------|------------|--|--|---|--|--|--|--|--|--|
|  |          |       | Matrix  |     |         |       |      |     |      | Containers & Preservatives |      |          |                |                      |            |  |  |   |  |  |  |  |  |  |
|  |          |       | Aqueous | Sol | Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH                  | Meth | NMTPH-6x | BTHX+M+N(BioB) | NMTPH-(X)W/S (clump) | Total Lead |  |  |   |  |  |  |  |  |  |
| 35 SB-10-5   | 6-9-2005 | 14:00 | X       |     |         |       |      |     |      |                            |      |          |                |                      |            |  |  | X |  |  |  |  |  |  |
| 6 SB-10-10   | 6-9-2005 | 14:10 | X       |     |         |       |      |     |      |                            |      |          |                |                      |            |  |  |   |  |  |  |  |  |  |
| 7 SB-10-12   |          | 14:15 | X       |     |         |       |      |     |      |                            |      |          |                |                      |            |  |  |   |  |  |  |  |  |  |
| 8 SB-10-15   |          | 14:30 | X       |     |         |       |      |     |      |                            |      |          |                |                      |            |  |  |   |  |  |  |  |  |  |
| 9 SB-10-20   |          | 14:40 | X       |     |         |       |      |     |      |                            |      |          |                |                      |            |  |  |   |  |  |  |  |  |  |

**Sample Disposal**  Disposal By Lab  
**Return To Client**  **Archive For** \_\_\_\_\_ Months

**Possible Hazard Identification**  
 Non-Hazardous  
 Flammable  
 Skin Irritant  
 Poison B  
 Unknown

**QC Requirements (Specify)**  
1. Received By: 6-10-05 10:35  
2. Received By: 6/10/05 12:55  
3. Received By: \_\_\_\_\_

**Comments** Please run Dx samples with acid/silica gel clean up.

**Distribution:** WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy



**STL**

STL Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059  
www.stl-inc.com

June 21, 2005

**STL SACRAMENTO PROJECT NUMBER: G5F110219**  
**PO/CONTRACT: 128334**

Tom Coyner  
STL Seattle  
5755 8th Street East  
Tacoma, WA 98424

Dear Mr. Coyner,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on June 11, 2005. These samples are associated with your 128334 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4402.

Sincerely,

Jill Kellmann  
Project Manager

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STL Sacramento Quality Assurance Program

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Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

SOLID, 8260B, BTEX/MTBE/Naphthalene

Samples: 1 through 29

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

Raw Data Section

## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F110219

#### General comments

The samples were received at 2° C.

The percent moisture analysis was performed at STL Seattle. Results were provided to STL Sacramento for purposes of dry weight correction.

One vial was received for both the 8260 and TPH-G analysis. In order to be able to analyze for both tests, where possible, a 1.0ml aliquot of extract was spiked with appropriate surrogate and then appropriate dilutions made.

The analyst observed that some of the sample labels were obscured. It is possible that methanol was lost during the sampling process and came in contact with the label on the outside of the vial.

#### SOLID, NWTPH-G

Sample(s): 1 through 29

The samples were initially intended to be analyzed at STL Seattle. The surrogate trifluorotoluene (TFT) was field spiked into each sample. This surrogate is not used under standard operating procedures at STL Sacramento and, therefore, the instrumentation is not curved appropriately to quantitate results using surrogate TFT. For the NWTPH-Gas analysis, TFT was identified and subtracted from the area of quantitation. 4-Bromofluorobenzene (BFB) was spiked at analysis and is the reported surrogate.

The continuing calibration verification standard (CCV) analyzed June, 16, 2005 at 05:39 is above the recommended percent recovery criteria of 15%. Review of the chromatography indicates carryover from a previous sample (G5F110219-026). The bracketing CCV's are within QC criteria indicating the system is within control. All samples with observed carryover were reanalyzed. No further corrective action is required.

Sample(s): 6, 19, 20, 26

Samples 6 (10X), 19 (10X), 20 (100X), and 26 (50X) required dilutions respectively due to high analyte levels. Reporting limits have been adjusted accordingly and samples have been appropriately flagged with a "Q" qualifier.

Sample(s): 10

Sample 10 has surrogate bromofluorobenzene (BFB) above the recommended percent recovery criteria of 171% due to visible matrix effect. No further corrective action is necessary.

**CASE NARRATIVE**

**STL SACRAMENTO PROJECT NUMBER G5F110219**

**SOLID, NWTPH-G and 8260B, BTEX/MTBE/Naphthalene**

Sample(s): 1 through 22

Insufficient volume was available for a matrix spike/matrix spike duplicate (MS/MSD). A laboratory control sample/duplicate control sample (LCS/DCS) was prepared instead.

**SOLID, 8260B, BTEX/MTBE/Naphthalene**

Samples 19 (5X), 20 (200X), and 27 (2X), required dilutions respectively due to high analyte levels. Reporting limits have been adjusted accordingly and samples have been appropriately flagged with a "Q" qualifier.

There were no other anomalies associated with this project.

STL Sacramento Certifications/Accreditations

| Certifying State | Certificate # | Certifying State  | Certificate # |
|------------------|---------------|-------------------|---------------|
| Alaska           | UST-055       | Oregon*           | CA 200005     |
| Arkansas         | 04-067-D      | South Carolina    | 87014002      |
| Colorado         | NA            | Utah*             | QUANI         |
| Florida*         | E87570        | Washington        | C087          |
| Hawaii           | NA            | Wisconsin         | 998204680     |
| Michigan         | 9947          | USACE             | NA            |
| New Jersey*      | CA005         | USDA Foreign Soil | S-46613       |

\*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary G5F110219

| <u>WO#</u> | <u>Sample #</u> | <u>Client Sample ID</u> | <u>Sampling Date</u> | <u>Received Date</u> |
|------------|-----------------|-------------------------|----------------------|----------------------|
| HDF7X      | 1               | SB-8-5                  | 6/9/2005 07:37 AM    | 6/11/2005 09:30 AM   |
| HDF70      | 2               | SB-8-8                  | 6/9/2005 07:45 AM    | 6/11/2005 09:30 AM   |
| HDF71      | 3               | SB-8-10                 | 6/9/2005 07:51 AM    | 6/11/2005 09:30 AM   |
| HDF72      | 4               | SB-8-12                 | 6/9/2005 07:57 AM    | 6/11/2005 09:30 AM   |
| HDF73      | 5               | SB-8-15                 | 6/9/2005 08:15 AM    | 6/11/2005 09:30 AM   |
| HDF74      | 6               | SB-8-18                 | 6/9/2005 08:44 AM    | 6/11/2005 09:30 AM   |
| HDF75      | 7               | SB-8-20                 | 6/9/2005 08:38 AM    | 6/11/2005 09:30 AM   |
| HDF76      | 8               | MW-56-5                 | 6/9/2005 09:18 AM    | 6/11/2005 09:30 AM   |
| HDF77      | 9               | MW-56-9                 | 6/9/2005 09:37 AM    | 6/11/2005 09:30 AM   |
| HDF78      | 10              | MW-56-10                | 6/9/2005 09:42 AM    | 6/11/2005 09:30 AM   |
| HDF79      | 11              | MW-56-12                | 6/9/2005 09:55 AM    | 6/11/2005 09:30 AM   |
| HDF8C      | 12              | MW-56-15                | 6/9/2005 10:00 AM    | 6/11/2005 09:30 AM   |
| HDF8D      | 13              | MW-56-18                | 6/9/2005 10:14 AM    | 6/11/2005 09:30 AM   |
| HDF8E      | 14              | MW-56-20                | 6/9/2005 10:19 AM    | 6/11/2005 09:30 AM   |
| HDF8F      | 15              | SB-9-5                  | 6/9/2005 12:05 PM    | 6/11/2005 09:30 AM   |
| HDF8H      | 16              | SB-9-8                  | 6/9/2005 12:10 PM    | 6/11/2005 09:30 AM   |
| HDF8J      | 17              | SB-9-9                  | 6/9/2005 12:17 PM    | 6/11/2005 09:30 AM   |
| HDF8N      | 18              | SB-9-10                 | 6/9/2005 12:20 PM    | 6/11/2005 09:30 AM   |
| HDF8T      | 19              | SB-9-12                 | 6/9/2005 12:25 PM    | 6/11/2005 09:30 AM   |
| HDF8V      | 20              | SB-9-14                 | 6/9/2005 12:30 PM    | 6/11/2005 09:30 AM   |
| HDF8W      | 21              | SB-9-15                 | 6/9/2005 12:37 PM    | 6/11/2005 09:30 AM   |
| HDF8X      | 22              | SB-9-17                 | 6/9/2005 12:45 PM    | 6/11/2005 09:30 AM   |
| HDF80      | 23              | SB-9-18                 | 6/9/2005 12:51 PM    | 6/11/2005 09:30 AM   |
| HDF81      | 24              | SB-9-20                 | 6/9/2005 12:55 PM    | 6/11/2005 09:30 AM   |
| HDF82      | 25              | SB-10-5                 | 6/9/2005 02:00 PM    | 6/11/2005 09:30 AM   |
| HDF83      | 26              | SB-10-10                | 6/9/2005 02:10 PM    | 6/11/2005 09:30 AM   |
| HDF84      | 27              | SB-10-12                | 6/9/2005 02:15 PM    | 6/11/2005 09:30 AM   |
| HDF85      | 28              | SB-10-15                | 6/9/2005 02:30 PM    | 6/11/2005 09:30 AM   |
| HDF86      | 29              | SB-10-20                | 6/9/2005 02:40 PM    | 6/11/2005 09:30 AM   |

**Notes(s):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

STL-Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel: 253-922-2310  
Fax: 253-922-5047  
www.stl-inc.com

## Chain of Custody Record

Client: STL - Seattle Date: 6/10/05 Chain of Custody Number: 15326  
 Address: \_\_\_\_\_ Lab Number: \_\_\_\_\_ Page 1 of 3  
 Project Manager: Tom Coyne  
 Telephone Number (Area Code)/Fax Number: \_\_\_\_\_

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date   | Time  | Matrix | Containers & Preservatives |      |      |      |      |      | Analysis (Attach list if more space is needed)                 | Special Instructions/<br>Conditions of Receipt |
|--|--------|-------|--------|----------------------------|------|------|------|------|------|--|--|
|  |        |       |        | HM03                       | HM04 | HM03 | HM04 | HM03 | HM04 |  |  |
| SB-8-5   | 6/9/05 | 7:37  | X      |                            |      |      |      |      |      | REVERSE SIDE CONDITION UNDER DOC<br>JUN 11 2005<br>[Signature] |  |
| SB-8-8   |        | 7:45  |        |                            |      |      |      |      |      |  |  |
| SB-8-10  |        | 7:51  |        |                            |      |      |      |      |      |  |  |
| SB-8-12  |        | 7:57  |        |                            |      |      |      |      |      |  |  |
| SB-8-15  |        | 8:15  |        |                            |      |      |      |      |      |  |  |
| SB-8-18  |        | 8:44  |        |                            |      |      |      |      |      |  |  |
| SB-8-20  |        | 8:38  |        |                            |      |      |      |      |      |  |  |
| MW-50-5  |        | 9:18  |        |                            |      |      |      |      |      |  |  |
| MW-50-9  |        | 9:37  |        |                            |      |      |      |      |      |  |  |
| MW-50-10   |        | 9:42  |        |                            |      |      |      |      |      |  |  |
| MW-50-12   |        | 9:55  |        |                            |      |      |      |      |      |  |  |
| MW-50-15   |        | 10:00 |        |                            |      |      |      |      |      |  |  |

Carrier/Waybill Number: WA 55-3501/255353 SAWA  
 Contract/Purchase Order/Quote No.: 128334  
 State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_  
 Possible Hazard Identification:  
 Yes  No  Cooler Temp: \_\_\_\_\_  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Disposal By Lab  Return To Client  Archive For \_\_\_\_\_  
 Turn Around Time Required (business days):  
 24 Hours  48 Hours  5 Days  10 Days  15 Days  Other 6/14  
 (A fee may be assessed if samples are retained longer than 1 month)  
 QC Requirements (Specify):  
 1. Relinquished By: VC Date: 6/10/05 Time: 1530  
 2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 1. Received By: [Signature] Date: 6/10/05 Time: 1200  
 2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_



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## Chain of Custody Record

|  |  |  |                                 |  |  |   |  |  |
|--|--|--|---------------------------------|--|--|---|--|--|
| Client<br><b>STL Seattle</b>   |  |  | Project Manager                 |  |  | Chain of Custody Number<br><b>15327</b>   |  |  |
| Address  |  |  | Date<br><b>6/10/05</b>          |  |  | Lab Number<br><b>2 of 3</b>   |  |  |
| Telephone Number (Area Code)/Fax Number  |  |  | Lab Contact                     |  |  | Analysis (Attach list if more space is needed)  |  |  |
| City   |  |  | Site Contact                    |  |  | Special Instructions/<br>Conditions of Receipt  |  |  |
| Project Name and Location (State)  |  |  | Carrier/Waybill Number          |  |  | RECEIVED IN GOOD CONDITION<br>UNDER GGC   |  |  |
| Contract/Purchase Order/Quote No.<br><b>128334</b>   |  |  | Matrix                          |  |  | JUN 11 2005   |  |  |
| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) |  |  | Containers & Preservatives      |  |  | <input type="checkbox"/> Sample Disposal <input type="checkbox"/> Disposal By Lab<br><input type="checkbox"/> Return to Client <input type="checkbox"/> Archive For<br><input type="checkbox"/> Unknown <input type="checkbox"/> Poison B <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Flammable <input type="checkbox"/> Non-Hazard<br>Possible Hazard Identification<br><input type="checkbox"/> No Cooler Temp. <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days <input type="checkbox"/> 15 Days <input type="checkbox"/> Other<br>Turn Around Time Required (business days)<br>1. Relinquished By<br>2. Relinquished By<br>3. Relinquished By |  |  |
|  |  |  | Matrix                          |  |  |   |  |  |
| QC Requirements (Specify)<br>1. Received By<br>2. Received By<br>3. Received By                  |  |  | Date<br>Time<br>6/10/05    1530 |  |  | Date<br>Time<br>6/10/05    1200   |  |  |
| Comments<br>YL<br>[Signature]  |  |  |                                 |  |  |   |  |  |

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**Chain of**  
**Custody Record**

G5F110219

Client: STL - Seattle Project Manager: \_\_\_\_\_ Date: 6/10/05 Chain of Custody Number: 15328  
 Address: \_\_\_\_\_ Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Lab Number: 3 of 3  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_  
 Project Name and Location (State): \_\_\_\_\_ Carrier/Waybill Number: \_\_\_\_\_

| Contract/Purchase Order/Quote No. | Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date   | Time | Matrix   |      |        |       | Containers & Preservatives |      |     |      | Analysis (Attach list if more space is needed) | Special Instructions/<br>Conditions of Receipt |      |      |
|-----------------------------------|--|--------|------|----------|------|--------|-------|----------------------------|------|-----|------|--|--|------|------|
|                                   |  |        |      | Asbestos | Soil | Sludge | Water | H2SO4                      | HNO3 | HCl | HNO2 |  |  | H2O2 | Zinc |
| 128334                            | SB-10-5  | 6/9/05 | 1400 |          | X    |        |       | X                          |      |     |      |  |  |      |      |
|                                   | SB-10-10   |        | 1410 |          | X    |        |       | X                          |      |     |      |  |  |      |      |
|                                   | SB-10-12   |        | 1415 |          | X    |        |       | X                          |      |     |      |  |  |      |      |
|                                   | SB-10-15   |        | 1430 |          | X    |        |       | X                          |      |     |      |  |  |      |      |
|                                   | SB-10-20   |        | 1440 |          | X    |        |       | X                          |      |     |      |  |  |      |      |

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

QC Requirements (Specify): \_\_\_\_\_

1. Relinquished By: KL Date: 6/10/05 Time: 1530  
 2. Relinquished By: Clay A. Hefner Date: 6-11-05 Time: 1200  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: \_\_\_\_\_



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL - Seattle PM JK LOG # 32984  
 LOT# (QUANTIMS ID) G5F110219 QUOTE# 65022 LOCATION VC

DATE RECEIVED 6-11-05 TIME RECEIVED 85930  
N/A 6-11-05

Initials CK Date 6-11-05

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) 15326, 15327, 15328

TEMPERATURE BLANK Observed: 2 Corrected: 2

SAMPLE TEMPERATURE  
 Observed: 2 2 2 Average: 2 Corrected Average: 2

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY \_\_\_\_\_

LABELS CHECKED BY \_\_\_\_\_

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

Vertical lines with arrows pointing down, likely for tracking or signature purposes.

# SOLID, NWTPH-G

STL SEATTLE

Client Sample ID: SB-8-5

GC Volatiles

Lot-Sample #....: G5F110219-001    Work Order #....: HDF7X1AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #....: 5168316  
Dilution Factor: 1  
\* Moisture.....: 23    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 6500                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 100                         | (39 - 171)                 |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-8-8

GC Volatiles

Lot-Sample #...: G5F110219-002    Work Order #...: HDF701AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 21    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | ND            | 6300                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 98                                | (39 - 171)                       |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-8-10

GC Volatiles

Lot-Sample #....: G5F110219-003    Work Order #....: HDF711AC    Matrix.....: SOLID  
Date Sampled....: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #....: 5168316  
Dilution Factor: 1  
% Moisture.....: 8.7    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 5500                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 97                          | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-8-12

GC Volatiles

Lot-Sample #...: G5F110219-004    Work Order #...: HDF721AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 13    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 5700                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 93                                | (39 - 171)                       |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-8-15

GC Volatiles

Lot-Sample #...: G5F110219-005    Work Order #...: HDF731AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 57    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 12000                       | 12000                      | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 95                          | (39 - 171)                 |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-8-18

GC Volatiles

Lot-Sample #...: G5F110219-006    Work Order #...: HDF741AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/16/05  
Prep Batch #...: 5168316  
Dilution Factor: 10  
% Moisture.....: 67    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 8600000 Q                   | 150000                     | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                     | (39 - 171)                 |              |

NOTE(S) :

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
Results and reporting limits have been adjusted for dry weight.  
Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-8-20

GC Volatiles

Lot-Sample #....: G5F110219-007    Work Order #....: HDF751AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/16/05  
Prep Batch #....: 5168316  
Dilution Factor: 1  
% Moisture.....: 54    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 13000                       | 11000                      | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 99                          | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-56-5

GC Volatiles

Lot-Sample #...: G5F110219-008    Work Order #...: HDF761AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 20    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 6300                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 102                               | (39 - 171)                       |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-56-9

GC Volatiles

Lot-Sample #...: G5F110219-009    Work Order #...: HDF771AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 21    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 8600                        | 6400                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 105                         | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-56-10

GC Volatiles

Lot-Sample #...: G5F110219-010    Work Order #...: HDF781AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | 200000        | 6000                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 425 *                       | (39 - 171)                 |

NOTE(S) :

\* Surrogate recovery is outside stated control limits.  
Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-56-12

GC Volatiles

Lot-Sample #...: G5F110219-011 Work Order #...: HDF791AC Matrix.....: SOLID  
Date Sampled...: 06/09/05 Date Received...: 06/11/05  
Prep Date.....: 06/13/05 Analysis Date...: 06/16/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 13 Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 5700                       | ug/kg        |
|                      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 89                          | (39 - 171)                 |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-56-15

GC Volatiles

Lot-Sample #...: G5F110219-012    Work Order #...: HDF8C1AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 6000                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 105                               | (39 - 171)                       |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: MW-56-18

GC Volatiles

Lot-Sample #....: G5F110219-013    Work Order #....: HDF8D1AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #....: 5168316  
Dilution Factor: 1  
% Moisture.....: 54    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 11000                      | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 100                         | (39 - 171)                 |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-56-20

GC Volatiles

Lot-Sample #...: G5F110219-014    Work Order #...: HDF8E1AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 68    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | ND            | 16000                      | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 96                          | (39 - 171)                 |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-5

GC Volatiles

Lot-Sample #...: G5F110219-015    Work Order #...: HDF8F1AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 11    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 5600                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 97                          | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-8

GC Volatiles

Lot-Sample #...: G5F110219-016    Work Order #...: HDF8H1AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 6000                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 96                          | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-9

GC Volatiles

Lot-Sample #...: G5F110219-017    Work Order #...: HDF8J1AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 10    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 5600                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 96                          | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-10

GC Volatiles

Lot-Sample #...: G5F110219-018    Work Order #...: HDF8N1AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
Prep Batch #...: 5168316  
Dilution Factor: 1  
% Moisture.....: 12    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 5700                        | 5700                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 97                          | (39 - 171)                 |              |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-12

GC Volatiles

Lot-Sample #...: G5F110219-019    Work Order #...: HDF8T1AC    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/20/05  
 Prep Batch #...: 5168316  
 Dilution Factor: 10  
 % Moisture.....: 12    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|----------------------|-------------------------|------------------------|--------------|
| TPH (as Gasoline)    | 550000 Q                | 57000                  | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                 | (39 - 171)             |              |

NOTE(S) :

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
 Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-9-14

GC Volatiles

Lot-Sample #...: G5F110219-020    Work Order #...: HDF8V1AC    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5168316  
 Dilution Factor: 100  
 % Moisture.....: 3.2    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|----------------------|-------------------------|------------------------|--------------|
| TPH (as Gasoline)    | 8200000 Q               | 520000                 | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                 | (39 - 171)             |              |

NOTE(S) :

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery. Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.



STL SEATTLE

Client Sample ID: SB-9-15

GC Volatiles

Lot-Sample #...: G5F110219-021    Work Order #...: HDF8W1AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/19/05  
Prep Batch #...: 5168360  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | 83000         | 5900                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 146                         | (39 - 171)                 |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-17

GC Volatiles

Lot-Sample #...: G5F110219-022    Work Order #...: HDF8X1AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5168360  
Dilution Factor: 1  
% Moisture.....: 11    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 12000                             | 5600                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 105                               | (39 - 171)                       |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-18

GC Volatiles

Lot-Sample #...: G5F110219-023    Work Order #...: HDF801AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/16/05  
Prep Batch #...: 5168360  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | 7500          | 6000                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 105                               | (39 - 171)                       |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-20

GC Volatiles

Lot-Sample #...: G5F110219-024    Work Order #...: HDF811AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/16/05  
Prep Batch #...: 5168360  
Dilution Factor: 1  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 6000                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 99                          | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-10-5

GC Volatiles

Lot-Sample #...: G5F110219-025    Work Order #...: HDF821AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/16/05  
Prep Batch #...: 5168360  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 6000                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 96                                | (39 - 171)                       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-10-10

GC Volatiles

Lot-Sample #...: G5F110219-026    Work Order #...: HDF831AC    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/20/05  
 Prep Batch #...: 5168360  
 Dilution Factor: 50  
 % Moisture.....: 12    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 4600000 Q                   | 280000                     | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                     | (39 - 171)                 |              |

NOTE(S) :

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
 Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-10-12

GC Volatiles

Lot-Sample #...: G5F110219-027    Work Order #...: HDF841AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5168360  
Dilution Factor: 1  
% Moisture.....: 22    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | 40000         | 6400                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 100                               | (39 - 171)                       |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-10-15

GC Volatiles

Lot-Sample #...: G5F110219-028    Work Order #...: HDF851AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5168360  
Dilution Factor: 1  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND              | 5900                             | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>                  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| 4-Bromofluorobenzene | 95              | (39 - 171)                       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-10-20

GC Volatiles

Lot-Sample #...: G5F110219-029    Work Order #...: HDF861AC    Matrix.....: SOLID  
Date Sampled...: 06/09/05    Date Received...: 06/11/05  
Prep Date.....: 06/13/05    Analysis Date...: 06/16/05  
Prep Batch #...: 5168360  
Dilution Factor: 1  
% Moisture.....: 20    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 6300                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 95                                | (39 - 171)                       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F110219

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 002            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 003            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 004            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 005            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 006            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 007            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 008            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 009            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 010            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 011            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F110219

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 012            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 013            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 014            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 015            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 016            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 017            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 018            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 019            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 020            | SOLID         | ASTM D 2216-90               |                          | 5166544                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168316                 |                |
| 021            | SOLID         | ASTM D 2216-90               |                          | 5166545                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168360                 |                |
| 022            | SOLID         | ASTM D 2216-90               |                          | 5166545                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168360                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F110219

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 023            | SOLID         | ASTM D 2216-90               |                          | 5166545                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168360                 |                |
| 024            | SOLID         | ASTM D 2216-90               |                          | 5166545                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168360                 |                |
| 025            | SOLID         | ASTM D 2216-90               |                          | 5166545                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168360                 |                |
| 026            | SOLID         | ASTM D 2216-90               |                          | 5166545                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168360                 |                |
| 027            | SOLID         | ASTM D 2216-90               |                          | 5166545                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168360                 |                |
| 028            | SOLID         | ASTM D 2216-90               |                          | 5166545                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168360                 |                |
| 029            | SOLID         | ASTM D 2216-90               |                          | 5166545                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168360                 |                |

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G5F110219  
MB Lot-Sample #: G5F170000-316  
Analysis Date...: 06/13/05  
Dilution Factor: 1

Work Order #...: HDT121AA  
Prep Date.....: 06/13/05  
Prep Batch #...: 5168316

Matrix.....: SOLID

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>  |
|----------------------|-----------------------------|----------------------------|--------------|----------------|
| TPH (as Gasoline)    | ND                          | 5000                       | ug/kg        | NWTPH NWTPH-Gx |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |                |
| 4-Bromofluorobenzene | 99                          | (39 - 171)                 |              |                |

NOTE(S) :

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G5F110219      Work Order #...: HDT781AA      Matrix.....: SOLID  
MB Lot-Sample #: G5F170000-360  
Prep Date.....: 06/13/05  
Analysis Date...: 06/13/05      Prep Batch #...: 5168360  
Dilution Factor: 1

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>  |
|----------------------|-----------------------------------|----------------------------------|--------------|----------------|
| TPH (as Gasoline)    | ND                                | 5000                             | ug/kg        | NWTPH NWTPH-Gx |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |                |
| 4-Bromofluorobenzene | 95                                | (39 - 171)                       |              |                |

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: G5F110219      Work Order #...: HDT121AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F170000-316      HDT121AD-LCSD  
 Prep Date.....: 06/13/05      Analysis Date...: 06/14/05  
 Prep Batch #...: 5168316  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u>  |
|-------------------|-------------------------|------------------------|------------|-------------------|----------------|
| TPH (as Gasoline) | 93                      | (73 - 136)             |            |                   | NWTPH NWTPH-Gx |
|                   | 100                     | (73 - 136)             | 8.0        | (0-21)            | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 105                     | (39 - 171)             |
|                      | 100                     | (39 - 171)             |

**NOTE (S) :**

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: G5F110219      Work Order #....: HDT121AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F170000-316      HDT121AD-LCSD  
 Prep Date.....: 06/13/05      Analysis Date...: 06/14/05  
 Prep Batch #....: 5168316  
 Dilution Factor: 1

| <u>PARAMETER</u>     | <u>SPIKE</u><br><u>AMOUNT</u> | <u>MEASURED</u><br><u>AMOUNT</u> | <u>UNITS</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>                    |
|----------------------|-------------------------------|----------------------------------|--------------|-----------------------------------|------------|----------------------------------|
| TPH (as Gasoline)    | 50000                         | 46300                            | ug/kg        | 93                                |            | NWTPH NWTPH-Gx                   |
|                      | 50000                         | 50200                            | ug/kg        | 100                               | 8.0        | NWTPH NWTPH-Gx                   |
| <u>SURROGATE</u>     |                               |                                  |              | <u>PERCENT</u><br><u>RECOVERY</u> |            | <u>RECOVERY</u><br><u>LIMITS</u> |
| 4-Bromofluorobenzene |                               |                                  |              | 105                               |            | (39 - 171)                       |
|                      |                               |                                  |              | 100                               |            | (39 - 171)                       |

**NOTE(S) :**

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

Bold print denotes control parameters



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: G5F110219      Work Order #...: HDT781AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F170000-360      HDT781AD-LCSD  
 Prep Date.....: 06/13/05      Analysis Date...: 06/14/05  
 Prep Batch #...: 5168360  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u>  |
|-------------------|-------------------------|------------------------|------------|-------------------|----------------|
| TPH (as Gasoline) | 103                     | (73 - 136)             |            |                   | NWTPH NWTPH-Gx |
|                   | 104                     | (73 - 136)             | 0.46       | (0-21)            | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 105                     | (39 - 171)             |
|                      | 105                     | (39 - 171)             |

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: G5F110219      Work Order #....: HDT781AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F170000-360      HDT781AD-LCSD  
 Prep Date.....: 06/13/05      Analysis Date...: 06/14/05  
 Prep Batch #....: 5168360  
 Dilution Factor: 1

| <u>PARAMETER</u>     | <u>SPIKE</u><br><u>AMOUNT</u> | <u>MEASURED</u><br><u>AMOUNT</u> | <u>UNITS</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>                    |
|----------------------|-------------------------------|----------------------------------|--------------|-----------------------------------|------------|----------------------------------|
| TPH (as Gasoline)    | 50000                         | 51600                            | ug/kg        | 103                               |            | NWTPH NWTPH-Gx                   |
|                      | 50000                         | 51900                            | ug/kg        | 104                               | 0.46       | NWTPH NWTPH-Gx                   |
| <u>SURROGATE</u>     |                               |                                  |              | <u>PERCENT</u><br><u>RECOVERY</u> |            | <u>RECOVERY</u><br><u>LIMITS</u> |
| 4-Bromofluorobenzene |                               |                                  |              | 105                               |            | (39 - 171)                       |
|                      |                               |                                  |              | 105                               |            | (39 - 171)                       |

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

# SOLID, 8260B, BTEX/MTBE/Naphthalene

STL SEATTLE

Client Sample ID: SB-8-5

GC/MS Volatiles

Lot-Sample #...: G5F110219-001    Work Order #...: HDF7X1AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5166466  
 Dilution Factor: 0.91  
 % Moisture.....: 23    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | ND            | 300                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 590                        | ug/kg        |
| Benzene                           | ND            | 36                         | ug/kg        |
| Toluene                           | ND            | 300                        | ug/kg        |
| Ethylbenzene                      | ND            | 300                        | ug/kg        |
| Naphthalene                       | ND            | 300                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 97                          | (44 - 142)                 |
| 4-Bromofluorobenzene  | 109                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 98                          | (43 - 147)                 |
| Toluene-d8            | 114                         | (47 - 145)                 |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-8-8

GC/MS Volatiles

Lot-Sample #...: G5F110219-002    Work Order #...: HDF701AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5166466  
 Dilution Factor: 0.9  
 % Moisture.....: 21    Method.....: SW846 8260B

| PARAMETER                      | RESULT | REPORTING LIMIT | UNITS |
|--------------------------------|--------|-----------------|-------|
| Xylenes (total)                | ND     | 280             | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND     | 570             | ug/kg |
| Benzene                        | ND     | 34              | ug/kg |
| Toluene                        | ND     | 280             | ug/kg |
| Ethylbenzene                   | ND     | 280             | ug/kg |
| Naphthalene                    | ND     | 280             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 94               | (44 - 142)      |
| 4-Bromofluorobenzene  | 106              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 95               | (43 - 147)      |
| Toluene-d8            | 110              | (47 - 145)      |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-8-10

GC/MS Volatiles

Lot-Sample #...: G5F110219-003    Work Order #...: HDF711AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5166466  
 Dilution Factor: 0.86  
 % Moisture.....: 8.7    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | ND            | 240                    | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 470                    | ug/kg        |
| Benzene                           | ND            | 28                     | ug/kg        |
| Toluene                           | ND            | 240                    | ug/kg        |
| Ethylbenzene                      | ND            | 240                    | ug/kg        |
| Naphthalene                       | ND            | 240                    | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 91                      | (44 - 142)             |
| 4-Bromofluorobenzene  | 103                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 92                      | (43 - 147)             |
| Toluene-d8            | 105                     | (47 - 145)             |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-8-12

GC/MS Volatiles

Lot-Sample #...: G5F110219-004 Work Order #...: HDF721AA Matrix.....: SOLID  
 Date Sampled...: 06/09/05 Date Received...: 06/11/05  
 Prep Date.....: 06/13/05 Analysis Date...: 06/13/05  
 Prep Batch #...: 5166466  
 Dilution Factor: 0.74  
 % Moisture.....: 13 Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |       |
|-----------------------------------|-----------------|---------------|-------|
|                                   |                 | LIMIT         | UNITS |
| Xylenes (total)                   | ND              | 210           | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 430           | ug/kg |
| Benzene                           | ND              | 26            | ug/kg |
| Toluene                           | ND              | 210           | ug/kg |
| Ethylbenzene                      | ND              | 210           | ug/kg |
| Naphthalene                       | ND              | 210           | ug/kg |
|                                   | PERCENT         | RECOVERY      |       |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |       |
| Dibromofluoromethane              | 99              | (44 - 142)    |       |
| 4-Bromofluorobenzene              | 109             | (41 - 152)    |       |
| 1,2-Dichloroethane-d4             | 100             | (43 - 147)    |       |
| Toluene-d8                        | 114             | (47 - 145)    |       |

**NOTE (S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-8-15

GC/MS Volatiles

Lot-Sample #....: G5F110219-005    Work Order #....: HDF731AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #....: 5166466  
 Dilution Factor: 1.56  
 % Moisture.....: 57    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | ND            | 910                    | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 1800                   | ug/kg        |
| Benzene                           | ND            | 110                    | ug/kg        |
| Toluene                           | ND            | 910                    | ug/kg        |
| Ethylbenzene                      | ND            | 910                    | ug/kg        |
| Naphthalene                       | ND            | 910                    | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 103                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 115                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 102                     | (43 - 147)             |
| Toluene-d8            | 116                     | (47 - 145)             |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-8-18

GC/MS Volatiles

Lot-Sample #....: G5F110219-006    Work Order #....: HDF741AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/14/05  
 Prep Batch #....: 5166466  
 Dilution Factor: 3.7  
 % Moisture.....: 67    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 2800      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 5500      | ug/kg |
| Benzene                           | ND     | 330       | ug/kg |
| Toluene                           | 3100   | 2800      | ug/kg |
| Ethylbenzene                      | ND     | 2800      | ug/kg |
| Naphthalene                       | ND     | 2800      | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 93       | (44 - 142) |
| 4-Bromofluorobenzene  | 117      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 92       | (43 - 147) |
| Toluene-d8            | 108      | (47 - 145) |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-8-20

GC/MS Volatiles

Lot-Sample #....: G5F110219-007    Work Order #....: HDF751AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #....: 5166466  
 Dilution Factor: 1.21  
 † Moisture.....: 54    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | ND            | 660                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 1300                       | ug/kg        |
| Benzene                           | ND            | 79                         | ug/kg        |
| Toluene                           | ND            | 660                        | ug/kg        |
| Ethylbenzene                      | ND            | 660                        | ug/kg        |
| Naphthalene                       | ND            | 660                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 106                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 108                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 104                         | (43 - 147)                 |
| Toluene-d8            | 113                         | (47 - 145)                 |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-56-5

GC/MS Volatiles

Lot-Sample #: G5F110219-008    Work Order #: HDF761AA    Matrix: SOLID  
 Date Sampled: 06/09/05    Date Received: 06/11/05  
 Prep Date: 06/13/05    Analysis Date: 06/13/05  
 Prep Batch #: 5166466  
 Dilution Factor: 0.86  
 % Moisture: 20    Method: SW846 8260B

| PARAMETER                      | RESULT | REPORTING LIMIT | UNITS |
|--------------------------------|--------|-----------------|-------|
| Xylenes (total)                | 210 J  | 270             | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND     | 540             | ug/kg |
| Benzene                        | ND     | 32              | ug/kg |
| Toluene                        | ND     | 270             | ug/kg |
| Ethylbenzene                   | ND     | 270             | ug/kg |
| Naphthalene                    | ND     | 270             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 106              | (44 - 142)      |
| 4-Bromofluorobenzene  | 105              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 104              | (43 - 147)      |
| Toluene-d8            | 115              | (47 - 145)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-56-9

GC/MS Volatiles

Lot-Sample #....: G5F110219-009    Work Order #....: HDF771AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #....: 5166466  
 Dilution Factor: 0.88  
 % Moisture.....: 21    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 240 J  | 280       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 560       | ug/kg |
| Benzene                           | 340    | 34        | ug/kg |
| Toluene                           | ND     | 280       | ug/kg |
| Ethylbenzene                      | 170 J  | 280       | ug/kg |
| Naphthalene                       | ND     | 280       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 108      | (44 - 142) |
| 4-Bromofluorobenzene  | 105      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 105      | (43 - 147) |
| Toluene-d8            | 117      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-56-10

GC/MS Volatiles

Lot-Sample #....: G5F110219-010    Work Order #....: HDF781AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #....: 5166466  
 Dilution Factor: 0.82  
 % Moisture.....: 17    Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |       |
|-----------------------------------|-----------------|---------------|-------|
|                                   |                 | LIMIT         | UNITS |
| Xylenes (total)                   | ND              | 250           | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 490           | ug/kg |
| Benzene                           | 130             | 30            | ug/kg |
| Toluene                           | ND              | 250           | ug/kg |
| Ethylbenzene                      | 2800            | 250           | ug/kg |
| Naphthalene                       | 920             | 250           | ug/kg |
|                                   | PERCENT         | RECOVERY      |       |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |       |
| Dibromofluoromethane              | 102             | (44 - 142)    |       |
| 4-Bromofluorobenzene              | 101             | (41 - 152)    |       |
| 1,2-Dichloroethane-d4             | 101             | (43 - 147)    |       |
| Toluene-d8                        | 113             | (47 - 145)    |       |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-56-12

GC/MS Volatiles

Lot-Sample #: G5F110219-011 Work Order #: HDF791AA Matrix: SOLID  
 Date Sampled: 06/09/05 Date Received: 06/11/05  
 Prep Date: 06/13/05 Analysis Date: 06/13/05  
 Prep Batch #: 5166466  
 Dilution Factor: 0.74  
 % Moisture: 13 Method: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 210       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 420       | ug/kg |
| Benzene                           | 130    | 25        | ug/kg |
| Toluene                           | ND     | 210       | ug/kg |
| Ethylbenzene                      | ND     | 210       | ug/kg |
| Naphthalene                       | ND     | 210       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 103      | (44 - 142) |
| 4-Bromofluorobenzene  | 103      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 100      | (43 - 147) |
| Toluene-d8            | 110      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-56-15

GC/MS Volatiles

Lot-Sample #....: G5F110219-012    Work Order #....: HDF8C1AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #....: 5166466  
 Dilution Factor: 0.76  
 ‡ Moisture.....: 17    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u>   | <u>REPORTING</u> |              |
|-----------------------------------|-----------------|------------------|--------------|
|                                   |                 | <u>LIMIT</u>     | <u>UNITS</u> |
| Xylenes (total)                   | ND              | 230              | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 460              | ug/kg        |
| Benzene                           | ND              | 27               | ug/kg        |
| Toluene                           | ND              | 230              | ug/kg        |
| Ethylbenzene                      | ND              | 230              | ug/kg        |
| Naphthalene                       | ND              | 230              | ug/kg        |
|                                   | <u>PERCENT</u>  | <u>RECOVERY</u>  |              |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u>    |              |
| Dibromofluoromethane              | 102             | (44 - 142)       |              |
| 4-Bromofluorobenzene              | 99              | (41 - 152)       |              |
| 1,2-Dichloroethane-d4             | 98              | (43 - 147)       |              |
| Toluene-d8                        | 110             | (47 - 145)       |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-56-18

GC/MS Volatiles

Lot-Sample #....: G5F110219-013    Work Order #....: HDF8D1AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #....: 5166466  
 Dilution Factor: 0.99  
 % Moisture.....: 54    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 540       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 1100      | ug/kg |
| Benzene                           | ND     | 64        | ug/kg |
| Toluene                           | ND     | 540       | ug/kg |
| Ethylbenzene                      | ND     | 540       | ug/kg |
| Naphthalene                       | ND     | 540       | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY   |
|-----------------------|---------------------|------------|
|                       |                     | LIMITS     |
| Dibromofluoromethane  | 106                 | (44 - 142) |
| 4-Bromofluorobenzene  | 107                 | (41 - 152) |
| 1,2-Dichloroethane-d4 | 103                 | (43 - 147) |
| Toluene-d8            | 113                 | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: MW-56-20

GC/MS Volatiles

Lot-Sample #...: G5F110219-014    Work Order #...: HDFB1AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5166466  
 Dilution Factor: 1.39  
 % Moisture.....: 68    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | ND            | 1100                   | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 2200                   | ug/kg        |
| Benzene                           | ND            | 130                    | ug/kg        |
| Toluene                           | ND            | 1100                   | ug/kg        |
| Ethylbenzene                      | ND            | 1100                   | ug/kg        |
| Naphthalene                       | ND            | 1100                   | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 103                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 99                      | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 101                     | (43 - 147)             |
| Toluene-d8            | 115                     | (47 - 145)             |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-5

GC/MS Volatiles

Lot-Sample #: G5F110219-015 Work Order #: HDF8F1AA Matrix: SOLID  
 Date Sampled: 06/09/05 Date Received: 06/11/05  
 Prep Date: 06/13/05 Analysis Date: 06/13/05  
 Prep Batch #: 5166466  
 Dilution Factor: 1  
 % Moisture: 11 Method: SW846 8260B

| PARAMETER                      | RESULT | REPORTING LIMIT | UNITS |
|--------------------------------|--------|-----------------|-------|
| Xylenes (total)                | ND     | 280             | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND     | 560             | ug/kg |
| Benzene                        | ND     | 34              | ug/kg |
| Toluene                        | ND     | 280             | ug/kg |
| Ethylbenzene                   | ND     | 280             | ug/kg |
| Naphthalene                    | ND     | 280             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 105              | (44 - 142)      |
| 4-Bromofluorobenzene  | 100              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 107              | (43 - 147)      |
| Toluene-d8            | 115              | (47 - 145)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-8

GC/MS Volatiles

Lot-Sample #....: G5F110219-016    Work Order #....: HDF8H1AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #....: 5166466  
 Dilution Factor: 0.84  
 ‡ Moisture.....: 17    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | 92 J          | 250                    | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 510                    | ug/kg        |
| Benzene                           | ND            | 30                     | ug/kg        |
| Toluene                           | ND            | 250                    | ug/kg        |
| Ethylbenzene                      | ND            | 250                    | ug/kg        |
| Naphthalene                       | ND            | 250                    | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 107                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 107                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 108                     | (43 - 147)             |
| Toluene-d8            | 115                     | (47 - 145)             |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-9-9

GC/MS Volatiles

Lot-Sample #...: G5F110219-017    Work Order #...: HDF8J1AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #...: 5166466  
 Dilution Factor: 0.85  
 % Moisture.....: 10    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING LIMIT | UNITS |
|-----------------------------------|--------|-----------------|-------|
| Xylenes (total)                   | ND     | 240             | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 470             | ug/kg |
| Benzene                           | ND     | 28              | ug/kg |
| Toluene                           | ND     | 240             | ug/kg |
| Ethylbenzene                      | ND     | 240             | ug/kg |
| Naphthalene                       | ND     | 240             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 104              | (44 - 142)      |
| 4-Bromofluorobenzene  | 104              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 104              | (43 - 147)      |
| Toluene-d8            | 112              | (47 - 145)      |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-9-10

GC/MS Volatiles

Lot-Sample #....: G5F110219-018    Work Order #....: HDF8N1AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/13/05  
 Prep Batch #....: 5166466  
 Dilution Factor: 0.71  
 % Moisture.....: 12    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | 400      | 200        | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 400        | ug/kg |
| Benzene                           | ND       | 24         | ug/kg |
| Toluene                           | ND       | 200        | ug/kg |
| Ethylbenzene                      | ND       | 200        | ug/kg |
| Naphthalene                       | 87 J     | 200        | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 105      | (44 - 142) |       |
| 4-Bromofluorobenzene              | 104      | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 105      | (43 - 147) |       |
| Toluene-d8                        | 114      | (47 - 145) |       |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-9-12

GC/MS Volatiles

Lot-Sample #....: G5F110219-019    Work Order #....: HDF8T1AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
 Prep Batch #....: 5166466  
 Dilution Factor: 4.07  
 % Moisture.....: 12    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | 11000 Q  | 1200       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 2300       | ug/kg |
| Benzene                           | ND       | 140        | ug/kg |
| Toluene                           | ND       | 1200       | ug/kg |
| Ethylbenzene                      | ND       | 1200       | ug/kg |
| Naphthalene                       | 5300     | 1200       | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 105      | (44 - 142) |       |
| 4-Bromofluorobenzene              | 117      | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 112      | (43 - 147) |       |
| Toluene-d8                        | 116      | (47 - 145) |       |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-9-14

GC/MS Volatiles

Lot-Sample #...: G5F110219-020    Work Order #...: HDF8VLAA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
 Prep Batch #...: 5166466  
 Dilution Factor: 166.1  
 % Moisture.....: 3.2    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING |       |
|-----------------------------------|----------|-----------|-------|
|                                   |          | LIMIT     | UNITS |
| Xylenes (total)                   | 610000 Q | 43000     | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 86000     | ug/kg |
| Benzene                           | 38000    | 5200      | ug/kg |
| Toluene                           | 270000   | 43000     | ug/kg |
| Ethylbenzene                      | 110000   | 43000     | ug/kg |
| Naphthalene                       | 37000 J  | 43000     | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 0.0 SRD  | (44 - 142) |
| 4-Bromofluorobenzene  | 0.0 SRD  | (41 - 152) |
| 1,2-Dichloroethane-d4 | 0.0 SRD  | (43 - 147) |
| Toluene-d8            | 0.0 SRD  | (47 - 145) |

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
 Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-9-15

GC/MS Volatiles

Lot-Sample #...: G5F110219-021    Work Order #...: HDF8W1AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/14/05  
 Prep Batch #...: 5166467  
 Dilution Factor: 0.77  
 % Moisture.....: 15    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | 290           | 230                    | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 450                    | ug/kg        |
| Benzene                           | 250           | 27                     | ug/kg        |
| Toluene                           | ND            | 230                    | ug/kg        |
| Ethylbenzene                      | 440           | 230                    | ug/kg        |
| Naphthalene                       | 170 J         | 230                    | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 102                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 103                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 99                      | (43 - 147)             |
| Toluene-d8            | 117                     | (47 - 145)             |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.



STL SEATTLE

Client Sample ID: SB-9-17

GC/MS Volatiles

Lot-Sample #....: G5F110219-022    Work Order #....: HDF8X1AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/14/05  
 Prep Batch #....: 5166467  
 Dilution Factor: 1.02  
 † Moisture.....: 11    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 350    | 290       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 570       | ug/kg |
| Benzene                           | 37     | 34        | ug/kg |
| Toluene                           | 86 J   | 290       | ug/kg |
| Ethylbenzene                      | ND     | 290       | ug/kg |
| Naphthalene                       | ND     | 290       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 105      | (44 - 142) |
| 4-Bromofluorobenzene  | 108      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 104      | (43 - 147) |
| Toluene-d8            | 115      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-9-18

GC/MS Volatiles

Lot-Sample #...: G5F110219-023    Work Order #...: HDF801AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/14/05  
 Prep Batch #...: 5166467  
 Dilution Factor: 0.76  
 ‡ Moisture.....: 17    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | 200 J         | 230                    | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 460                    | ug/kg        |
| Benzene                           | 130           | 27                     | ug/kg        |
| Toluene                           | ND            | 230                    | ug/kg        |
| Ethylbenzene                      | ND            | 230                    | ug/kg        |
| Naphthalene                       | ND            | 230                    | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 105                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 106                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 101                     | (43 - 147)             |
| Toluene-d8            | 116                     | (47 - 145)             |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-9-20

GC/MS Volatiles

Lot-Sample #...: G5F110219-024    Work Order #...: HDF811AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/14/05  
 Prep Batch #...: 5166467  
 Dilution Factor: 0.8  
 ‡ Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |       |
|-----------------------------------|-----------------|---------------|-------|
|                                   |                 | LIMIT         | UNITS |
| Xylenes (total)                   | ND              | 240           | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 480           | ug/kg |
| Benzene                           | ND              | 29            | ug/kg |
| Toluene                           | ND              | 240           | ug/kg |
| Ethylbenzene                      | ND              | 240           | ug/kg |
| Naphthalene                       | ND              | 240           | ug/kg |
|                                   | PERCENT         | RECOVERY      |       |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |       |
| Dibromofluoromethane              | 106             | (44 - 142)    |       |
| 4-Bromofluorobenzene              | 106             | (41 - 152)    |       |
| 1,2-Dichloroethane-d4             | 106             | (43 - 147)    |       |
| Toluene-d8                        | 117             | (47 - 145)    |       |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-10-5

GC/MS Volatiles

Lot-Sample #: G5F110219-025    Work Order #: HDF821AA    Matrix: SOLID  
 Date Sampled: 06/09/05    Date Received: 06/11/05  
 Prep Date: 06/13/05    Analysis Date: 06/14/05  
 Prep Batch #: 5166467  
 Dilution Factor: 0.87  
 % Moisture: 17    Method: SW846 8260B

| PARAMETER                      | RESULT | REPORTING LIMIT | UNITS |
|--------------------------------|--------|-----------------|-------|
| Xylenes (total)                | ND     | 260             | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND     | 520             | ug/kg |
| Benzene                        | ND     | 31              | ug/kg |
| Toluene                        | ND     | 260             | ug/kg |
| Ethylbenzene                   | ND     | 260             | ug/kg |
| Naphthalene                    | ND     | 260             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 109              | (44 - 142)      |
| 4-Bromofluorobenzene  | 104              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 106              | (43 - 147)      |
| Toluene-d8            | 118              | (47 - 145)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-10-10

GC/MS Volatiles

Lot-Sample #...: G5F110219-026 Work Order #...: HDF831AA Matrix.....: SOLID  
 Date Sampled...: 06/09/05 Date Received...: 06/11/05  
 Prep Date.....: 06/13/05 Analysis Date...: 06/14/05  
 Prep Batch #...: 5166467  
 Dilution Factor: 1.04  
 % Moisture.....: 12 Method.....: SW846 8260B

| PARAMETER                      | RESULT | REPORTING LIMIT | UNITS |
|--------------------------------|--------|-----------------|-------|
| Xylenes (total)                | 7800   | 290             | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND     | 590             | ug/kg |
| Benzene                        | 170    | 35              | ug/kg |
| Toluene                        | ND     | 290             | ug/kg |
| Ethylbenzene                   | 1600   | 290             | ug/kg |
| Naphthalene                    | 4400   | 290             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 106              | (44 - 142)      |
| 4-Bromofluorobenzene  | 92               | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 100              | (43 - 147)      |
| Toluene-d8            | 122              | (47 - 145)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-10-12

GC/MS Volatiles

Lot-Sample #....: G5F110219-027    Work Order #....: HDF841AA    Matrix.....: SOLID  
 Date Sampled....: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/15/05  
 Prep Batch #....: 5166467  
 Dilution Factor: 1.6  
 % Moisture.....: 22    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | 390 J,Q  | 510        | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 1000       | ug/kg |
| Benzene                           | 1700     | 61         | ug/kg |
| Toluene                           | ND       | 510        | ug/kg |
| Ethylbenzene                      | 3800     | 510        | ug/kg |
| Naphthalene                       | 4000     | 510        | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 99       | (44 - 142) |       |
| 4-Bromofluorobenzene              | 105      | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 102      | (43 - 147) |       |
| Toluene-d8                        | 109      | (47 - 145) |       |

NOTE(S):

- Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-10-15

GC/MS Volatiles

Lot-Sample #...: G5F110219-028    Work Order #...: HDF851AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/14/05  
 Prep Batch #...: 5166467  
 Dilution Factor: 0.91  
 % Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                         | RESULT     | REPORTING  |              |
|-----------------------------------|------------|------------|--------------|
|                                   |            | LIMIT      | UNITS        |
| Xylenes (total)                   | ND         | 270        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND         | 540        | ug/kg        |
| <b>Benzene</b>                    | <b>110</b> | <b>32</b>  | <b>ug/kg</b> |
| Toluene                           | ND         | 270        | ug/kg        |
| Ethylbenzene                      | ND         | 270        | ug/kg        |
| <b>Naphthalene</b>                | <b>320</b> | <b>270</b> | <b>ug/kg</b> |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 104      | (44 - 142) |
| 4-Bromofluorobenzene  | 101      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 101      | (43 - 147) |
| Toluene-d8            | 112      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-10-20

GC/MS Volatiles

Lot-Sample #...: G5F110219-029    Work Order #...: HDF861AA    Matrix.....: SOLID  
 Date Sampled...: 06/09/05    Date Received...: 06/11/05  
 Prep Date.....: 06/13/05    Analysis Date...: 06/14/05  
 Prep Batch #...: 5166467  
 Dilution Factor: 0.83  
 % Moisture.....: 20    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 260       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 520       | ug/kg |
| Benzene                           | ND     | 31        | ug/kg |
| Toluene                           | ND     | 260       | ug/kg |
| Ethylbenzene                      | ND     | 260       | ug/kg |
| Naphthalene                       | 95 J   | 260       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 104      | (44 - 142) |
| 4-Bromofluorobenzene  | 104      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 103      | (43 - 147) |
| Toluene-d8            | 116      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.



# QC DATA ASSOCIATION SUMMARY

G5F110219

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 002            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 003            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 004            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 005            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 006            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 007            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 008            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 009            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 010            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 011            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 012            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 013            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 014            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 015            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 016            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 017            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 018            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 019            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 020            | SOLID         | SW846 8260B                  |                          | 5166466                 |                |
| 021            | SOLID         | SW846 8260B                  |                          | 5166467                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F110219

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 022            | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
| 023            | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
| 024            | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
| 025            | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
| 026            | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
| 027            | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
| 028            | SOLID         | SW846 8260B                  |                          | 5166467                 |                |
| 029            | SOLID         | SW846 8260B                  |                          | 5166467                 |                |

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G5F110219      Work Order #...: HDNT51AA      Matrix.....: SOLID  
 MB Lot-Sample #: G5F150000-466      Prep Date.....: 06/13/05  
 Analysis Date...: 06/13/05      Prep Batch #...: 5166466  
 Dilution Factor: 1

| PARAMETER                         | RESULT | REPORTING |       | METHOD      |
|-----------------------------------|--------|-----------|-------|-------------|
|                                   |        | LIMIT     | UNITS |             |
| Xylenes (total)                   | ND     | 250       | ug/kg | SW846 8260B |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 500       | ug/kg | SW846 8260B |
| Benzene                           | ND     | 30        | ug/kg | SW846 8260B |
| Toluene                           | ND     | 250       | ug/kg | SW846 8260B |
| Ethylbenzene                      | ND     | 250       | ug/kg | SW846 8260B |
| Naphthalene                       | ND     | 250       | ug/kg | SW846 8260B |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 97       | (44 - 142) |
| 4-Bromofluorobenzene  | 103      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 93       | (43 - 147) |
| Toluene-d8            | 106      | (47 - 145) |

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G5F110219  
 MB Lot-Sample #: G5F150000-467  
 Analysis Date...: 06/13/05  
 Dilution Factor: 1

Work Order #...: HDNVE1AA  
 Prep Date.....: 06/13/05  
 Prep Batch #...: 5166467

Matrix.....: SOLID

| PARAMETER                         | RESULT   | REPORTING  |          |             |
|-----------------------------------|----------|------------|----------|-------------|
|                                   |          | LIMIT      | UNITS    | METHOD      |
| Xylenes (total)                   | ND       | 250        | ug/kg    | SW846 8260B |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 500        | ug/kg    | SW846 8260B |
| Benzene                           | ND       | 30         | ug/kg    | SW846 8260B |
| Toluene                           | ND       | 250        | ug/kg    | SW846 8260B |
| Ethylbenzene                      | ND       | 250        | ug/kg    | SW846 8260B |
| Naphthalene                       | ND       | 250        | ug/kg    | SW846 8260B |
|                                   |          | PERCENT    | RECOVERY |             |
| SURROGATE                         | RECOVERY | LIMITS     |          |             |
| Dibromofluoromethane              | 104      | (44 - 142) |          |             |
| 4-Bromofluorobenzene              | 100      | (41 - 152) |          |             |
| 1,2-Dichloroethane-d4             | 101      | (43 - 147) |          |             |
| Toluene-d8                        | 109      | (47 - 145) |          |             |

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G5F110219      Work Order #...: HDNT51AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F150000-466      HDNT51AD-LCSD  
 Prep Date.....: 06/13/05      Analysis Date...: 06/13/05  
 Prep Batch #...: 5166466

| <u>PARAMETER</u>                  | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u> |
|-----------------------------------|---------------------|------------------------|--------------|-------------------------|------------|---------------|
| Methyl tert-butyl ether<br>(MTBE) | 1000                | 909                    | ug/kg        | 91                      |            | SW846 8260B   |
|                                   | 1000                | 920                    | ug/kg        | 92                      | 1.3        | SW846 8260B   |
| Benzene                           | 1000                | 841                    | ug/kg        | 84                      |            | SW846 8260B   |
|                                   | 1000                | 861                    | ug/kg        | 86                      | 2.4        | SW846 8260B   |
| Toluene                           | 1000                | 941                    | ug/kg        | 94                      |            | SW846 8260B   |
|                                   | 1000                | 942                    | ug/kg        | 94                      | 0.12       | SW846 8260B   |
| Ethylbenzene                      | 1000                | 978                    | ug/kg        | 98                      |            | SW846 8260B   |
|                                   | 1000                | 1030                   | ug/kg        | 103                     | 5.1        | SW846 8260B   |
| Naphthalene                       | 1000                | 995                    | ug/kg        | 99                      |            | SW846 8260B   |
|                                   | 1000                | 1070                   | ug/kg        | 107                     | 7.0        | SW846 8260B   |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 92                      | (44 - 142)             |
|                       | 91                      | (44 - 142)             |
| 4-Bromofluorobenzene  | 98                      | (41 - 152)             |
|                       | 102                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 85                      | (43 - 147)             |
|                       | 86                      | (43 - 147)             |
| Toluene-d8            | 99                      | (47 - 145)             |
|                       | 101                     | (47 - 145)             |

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters



# STL

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## TRANSMITTAL MEMORANDUM

DATE: June 23, 2005

TO: Eric Larsen  
Delta Environmental  
17720 NE 65th Street Ste 201  
Redmond, WA 98052

PROJECT: WA255.3510-1/255353 Seattle

REPORT NUMBER: 128378

TOTAL NUMBER OF PAGES: \_\_\_\_\_

Enclosed are the test results for twenty-five samples received at STL Seattle on June 14, 2005. NWTPH-Gx and volatile organics analysis was performed at STL Sacramento.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Coyner".

Tom Coyner  
Project Manager

---

STL Seattle is a part of Severn Trent Laboratories, Inc.

*This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-922-2310 and destroy this report immediately.*

# STL Seattle

## Sample Identification:

| <u>Lab. No.</u> | <u>Client ID</u> | <u>Date/Time Sampled</u> | <u>Matrix</u> |
|-----------------|------------------|--------------------------|---------------|
| 128378-1        | SB-11-5          | 06-10-05 08:00           | solid         |
| 128378-2        | SB-11-9.5        | 06-10-05 08:13           | solid         |
| 128378-3        | SB-11-11         | 06-10-05 08:17           | solid         |
| 128378-4        | SB-11-12.5       | 06-10-05 08:20           | solid         |
| 128378-5        | SB-11-14         | 06-10-05 08:26           | solid         |
| 128378-6        | SB-11-13         | 06-10-05 08:30           | solid         |
| 128378-7        | SB-11-15.5       | 06-10-05 08:35           | solid         |
| 128378-8        | SB-11-20         | 06-10-05 08:45           | solid         |
| 128378-9        | SB-12-5          | 06-10-05 09:46           | solid         |
| 128378-10       | SB-12-9.5        | 06-10-05 09:55           | solid         |
| 128378-11       | SB-12-11         | 06-10-05 10:00           | solid         |
| 128378-12       | SB-12-12.5       | 06-10-05 10:05           | solid         |
| 128378-13       | SB-12-14         | 06-10-05 10:20           | solid         |
| 128378-14       | SB-12-15.5       | 06-10-05 10:22           | solid         |
| 128378-15       | SB-12-20         | 06-10-05 10:30           | solid         |
| 128378-16       | MW-57-5          | 06-10-05 12:10           | solid         |
| 128378-17       | MW-57-11         | 06-10-05 12:20           | solid         |
| 128378-18       | MW-57-12.5       | 06-10-05 12:25           | solid         |
| 128378-19       | MW-57-20         | 06-10-05 12:50           | solid         |
| 128378-20       | SB-13-5          | 06-10-05 14:05           | solid         |
| 128378-21       | SB-13-9.5        | 06-10-05 14:18           | solid         |
| 128378-22       | SB-13-11         | 06-10-05 14:25           | solid         |
| 128378-23       | SB-13-12.5       | 06-10-05 14:30           | solid         |
| 128378-24       | SB-13-20         | 06-10-05 14:50           | solid         |
| 128378-25       | SB-13-15.5       | 06-10-05 14:45           | solid         |

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# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-11-5             |
| Lab ID:         | 128378-01           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 89.67               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 86.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.1 |       |
| Motor Oil | 64.1           | 54.3 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-11-9.5           |
| Lab ID:         | 128378-02           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 89.41               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 77.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.9 |       |
| Motor Oil | ND             | 53.7 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-11-11            |
| Lab ID:         | 128378-03           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 88.95               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 78.6       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 90.9           | 28.1 |       |
| Motor Oil | 172            | 56.1 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-11-12.5          |
| Lab ID:         | 128378-04           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 84.45               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 72         |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 45.3           | 27.5 | X1    |
| Motor Oil | ND             | 55   |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-11-14            |
| Lab ID:         | 128378-05           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 86.43               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 71.1       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.3 |       |
| Motor Oil | ND             | 54.6 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-11-13            |
| Lab ID:         | 128378-06           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 85.54               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 89.6       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 245            | 28.3 | X1    |
| Motor Oil | ND             | 56.6 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-11-15.5          |
| Lab ID:         | 128378-07           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 82.53               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 64.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 29.7 |       |
| Motor Oil | ND             | 59.4 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-11-20            |
| Lab ID:         | 128378-08           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 60.63               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 23.7       | X9    | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 54.1           | 40.2 | X2    |
| Motor Oil | ND             | 80.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-12-5             |
| Lab ID:         | 128378-09           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 89.6                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 62.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.8 |       |
| Motor Oil | ND             | 53.7 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-12-9.5           |
| Lab ID:         | 128378-10           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 83.06               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 55.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.5 |       |
| Motor Oil | ND             | 57.1 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-12-11            |
| Lab ID:         | 128378-11           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 83.69               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 55.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 98.2           | 29.4 |       |
| Motor Oil | ND             | 58.8 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-12-12.5          |
| Lab ID:         | 128378-12           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 84.21               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 72.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 579            | 29.3 | X1    |
| Motor Oil | ND             | 58.5 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-12-15.5          |
| Lab ID:         | 128378-14           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 79.86               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 58.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 38.9           | 30.5 | X1    |
| Motor Oil | ND             | 61.1 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-12-20            |
| Lab ID:         | 128378-15           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/17/2005           |
| % Solids        | 75.15               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 91.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 39.3           | 32.7 | X1    |
| Motor Oil | 113            | 65.3 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-57-5             |
| Lab ID:         | 128378-16           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 89.5                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 58.1       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.1 |       |
| Motor Oil | ND             | 54.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-57-11            |
| Lab ID:         | 128378-17           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 81.5                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 55         |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 202            | 30.6 | X1    |
| Motor Oil | 720            | 61.1 |       |

X1 - Chromatogram suggests this might be overlap from motor oil range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-57-12.5          |
| Lab ID:         | 128378-18           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 85.67               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 58.6       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 54.5           | 29   | X1    |
| Motor Oil | ND             | 57.9 |       |

X1 - Chromatogram suggests this might be overlap from motor oil range



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-57-20            |
| Lab ID:         | 128378-19           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/17/2005           |
| % Solids        | 79.99               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 97         |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 408            | 30.1 | X2    |
| Motor Oil | 1540           | 60.2 | X2    |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-13-5             |
| Lab ID:         | 128378-20           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 75.43               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 55.3       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 32.1 |       |
| Motor Oil | ND             | 64.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-13-9.5           |
| Lab ID:         | 128378-21           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 85.32               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 50.6       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.1 |       |
| Motor Oil | ND             | 56.1 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-13-11            |
| Lab ID:         | 128378-22           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 84.54               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 55.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.5 |       |
| Motor Oil | ND             | 56.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-13-12.5          |
| Lab ID:         | 128378-23           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/20/2005           |
| % Solids        | 87.38               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 73.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.6 |       |
| Motor Oil | ND             | 57.1 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-13-20            |
| Lab ID:         | 128378-24           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 83.98               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 67.5       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.2 |       |
| Motor Oil | ND             | 54.4 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-13-15.5          |
| Lab ID:         | 128378-25           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/15/2005           |
| % Solids        | 28.11               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 44.3       | X9    | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 263            | 82.8 | X1    |
| Motor Oil | 1000           | 166  |       |

X1 - Chromatogram suggests this might be overlap from motor oil range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-11-5             |
| Lab ID:         | 128378-01           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 89.67               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 23.7              | 2.18 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-11-9.5           |
| Lab ID:         | 128378-02           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 89.41               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.21 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-11-11            |
| Lab ID:         | 128378-03           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 88.95               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 77.1              | 2.18 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-11-12.5          |
| Lab ID:         | 128378-04           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 84.45               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 31.6              | 2.31 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-11-14            |
| Lab ID:         | 128378-05           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 86.43               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.21 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-11-13            |
| Lab ID:         | 128378-06           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 85.54               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 2.33              | 2.16 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-11-15.5          |
| Lab ID:         | 128378-07           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 82.53               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.18 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-11-20            |
| Lab ID:         | 128378-08           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 60.63               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 12.7              | 2.94 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-12-5             |
| Lab ID:         | 128378-09           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 89.6                |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.14 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-12-9.5           |
| Lab ID:         | 128378-10           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 83.06               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 70.1              | 1.95 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-12-11            |
| Lab ID:         | 128378-11           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 83.69               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 8.68              | 2.22 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-12-12.5          |
| Lab ID:         | 128378-12           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 84.21               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 9.02              | 2.24 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-12-15.5          |
| Lab ID:         | 128378-14           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.86               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 10.8              | 2.22 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-12-20            |
| Lab ID:         | 128378-15           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 75.15               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 10.7              | 2.11 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-57-5             |
| Lab ID:         | 128378-16           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 89.5                |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 1.89 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-57-11            |
| Lab ID:         | 128378-17           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 81.5                |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 7.38              | 2.04 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-57-12.5          |
| Lab ID:         | 128378-18           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 85.67               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | 13.6              | 1.9 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-57-20            |
| Lab ID:         | 128378-19           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.99               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 172               | 2.44 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-13-5             |
| Lab ID:         | 128378-20           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 75.43               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 3700              | 2.62 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-13-9.5           |
| Lab ID:         | 128378-21           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 85.32               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 6.75              | 1.96 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-13-11            |
| Lab ID:         | 128378-22           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 84.54               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.05 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-13-12.5          |
| Lab ID:         | 128378-23           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 87.38               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.11 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-13-20            |
| Lab ID:         | 128378-24           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 83.98               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.14 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-13-15.5          |
| Lab ID:         | 128378-25           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 28.11               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 41                | 6.35 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DS1496 |
| Date Received:  | -                     |
| Date Prepared:  | 6/15/2005             |
| Date Analyzed:  | 6/15/2005             |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 108        |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 25 |       |
| Motor Oil | ND             | 50 |       |



# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DS1497 |
| Date Received:  | -                     |
| Date Prepared:  | 6/15/2005             |
| Date Analyzed:  | 6/15/2005             |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 72.5       |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 25 |       |
| Motor Oil | ND             | 50 |       |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DS1496  
Date Prepared: 6/15/2005  
Date Analyzed: 6/16/2005  
QC Batch ID: DS1496

### Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|-----|------|
| #2 Diesel     | 8.4                  | 500                  | 513               | 101       | 511                | 101        | 0   |      |
| Motor Oil     | 0                    | 500                  | 497               | 99.5      | 502                | 100        | 0.5 |      |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DS1497  
Date Prepared: 6/15/2005  
Date Analyzed: 6/15/2005  
QC Batch ID: DS1497

### Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|-----|------|
| #2 Diesel     | 1.7                  | 500                  | 452               | 90.1      | 439                | 87.4       | -3  |      |
| Motor Oil     | 0                    | 500                  | 468               | 93.6      | 404                | 80.8       | -15 |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-11-9.5  
Lab ID: 128378-02  
Date Prepared: 6/15/2005  
Date Analyzed: 6/15/2005  
QC Batch ID: DS1496

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 0                     | 0                        | NC    |      |
| Motor Oil      | 0                     | 0                        | NC    |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-12-12.5  
Lab ID: 128378-12  
Date Prepared: 6/15/2005  
Date Analyzed: 6/15/2005  
QC Batch ID: DS1496

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 579                   | 509                      | 13.0  |      |
| Motor Oil      | 0                     | 0                        | NC    |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-14-15  
Lab ID: 128379-03  
Date Prepared: 6/15/2005  
Date Analyzed: 6/16/2005  
QC Batch ID: DS1497

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 0                     | 0                        | NC    |      |
| Motor Oil      | 0                     | 0                        | NC    |      |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - SP1325 |
| Date Received:  | -                     |
| Date Prepared:  | 6/15/05               |
| Date Analyzed:  | 6/15/05               |
| Dilution Factor | 1                     |

## Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

| Analyte | Result<br>(mg/kg) | RL | Flags |
|---------|-------------------|----|-------|
| Lead    | ND                | 2  |       |

# STL Seattle

|                  |                       |
|------------------|-----------------------|
| Lab ID:          | Method Blank - SP1326 |
| Date Received:   | -                     |
| Date Prepared:   | 6/15/05               |
| Date Analyzed:   | 6/15/05               |
| Dilution Factor: | 1                     |

## Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

| Analyte | Result<br>(mg/kg) | RL | Flags |
|---------|-------------------|----|-------|
| Lead    | ND                | 2  |       |



# STL Seattle

## Matrix Spike Report

Client Sample ID: SB-11-5  
Lab ID: 128378-01  
Date Prepared: 6/15/05  
Date Analyzed: 6/15/05  
QC Batch ID: SP1325

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Spike Amount (mg/kg) | MS Result (mg/kg) | MS % Rec. | Flag |
|----------------|-----------------------|----------------------|-------------------|-----------|------|
| Lead           | 23.7                  | 101                  | 119               | 94        |      |

# STL Seattle

## Matrix Spike Report

Client Sample ID: SB-13-11  
Lab ID: 128378-22  
Date Prepared: 6/15/05  
Date Analyzed: 6/15/05  
QC Batch ID: SP1326

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Spike Amount (mg/kg) | MS Result (mg/kg) | MS % Rec. | Flag |
|----------------|-----------------------|----------------------|-------------------|-----------|------|
| Lead           | 0                     | 109                  | 104               | 96        |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-11-5  
Lab ID: 128378-01  
Date Prepared: 6/15/05  
Date Analyzed: 6/15/05  
QC Batch ID: SP1325

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| Lead           | 24                    | 19                       | 23.0  |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-13-11  
Lab ID: 128378-22  
Date Prepared: 6/15/05  
Date Analyzed: 6/15/05  
QC Batch ID: SP1326

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| Lead           | 0                     | 0                        | NC    |      |

**DATA QUALIFIERS AND ABBREVIATIONS**

- B1:** This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2:** This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1:** Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.
- C2:** Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- C3:** Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be ≤ 30%.
- C4:** Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The original analysis was reported unless anomalies were noted.
- M:** GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D:** The reported result for this analyte was calculated based on a secondary dilution factor.
- E:** The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J:** The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL:** Maximum Contaminant Level
- MDL:** Method Detection Limit
- RL:** Reporting Limit
- N:** See analytical narrative
- ND:** Not Detected
- X1:** Contaminant does not appear to be "typical" product. Elution pattern suggests it may be \_\_\_\_\_.
- X2:** Contaminant does not appear to be "typical" product.
- X3:** Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4:** RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a:** RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5:** Matrix spike recovery was not determined due to the required dilution.
- X6:** Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7:** Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a:** Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8:** Surrogate recovery was not determined due to the required dilution.
- X9:** Surrogate recovery outside advisory QC limits due to matrix interference.

**STL Sacramento**  
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June 22, 2005

**STL SACRAMENTO PROJECT NUMBER: G5F150211**  
**PO/CONTRACT: 128378**

Tom Coyner  
STL Seattle  
5755 8th Street East  
Tacoma, WA 98424

Dear Mr. Coyner,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on June 15, 2005. These samples are associated with your 128378 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4402.

Sincerely,



Jill Kellmann  
Project Manager

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## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F150211

#### General Comments

The samples were received at 4° C. The temperature blank was received frozen at 0° C.

The percent moisture analysis was performed at STL Seattle. Results were provided to STL Sacramento for purposes of dry weight correction. Due to limited sample volume, a dry weight could not be determined for sample SB-12-14. This sample was reported on a wet weight basis.

One vial was received for both the 8260 and TPH-G analysis. In order to be able to analyze for both tests, where possible, a 1.0ml aliquot of extract was spiked with appropriate surrogate and then appropriate dilutions made.

The analyst observed that some of the sample labels were obscured. It is possible that methanol was lost during the sampling process and came in contact with the label on the outside of the vial.

#### SOLID, NWTPH-Gx

Sample(s): 1 through 25

The samples were initially intended to be analyzed at STL Seattle. The surrogate trifluorotoluene (TFT) was field spiked into each sample. This surrogate is not used under standard operating procedures at STL Sacramento and, therefore, the instrumentation is not curved appropriately to quantitate results using surrogate TFT. For the NWTPH-Gas analysis, TFT was identified and subtracted from the area of quantitation. 4-Bromofluorobenzene (BFB) was spiked at analysis and is the reported surrogate.

Sample(s): 6, 11, 12, 13,

Samples 6 (100X), 11 (50X), 12 (20X), and 13 (2X) required dilutions respectively due to high analyte levels. Reporting limits have been adjusted accordingly and samples have been appropriately flagged with a "Q" qualifier.

Sample(s): 4, 8

Samples 4 and 8 had surrogate 4-bromofluorobenzene (BFB) above the recommended percent recovery criteria of 171%. Reanalysis confirmed the high recovery. The original analyses were reported and no further corrective action was necessary.



## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F150211

#### **SOLID, 8260B, BTEX/MTBE/Naphthalene**

Sample(s): 4, 6, 11, 12, 13, 14, 17, 18

Samples 4 (5X), 6 (20X), 11 (20X), 12 (50X), 13 (5X), 14 (5X), 17 (2X), and 18 (10X) required dilutions respectively due to high analyte levels. Reporting limits have been adjusted accordingly and samples have been appropriately flagged with a "Q" qualifier.

Sample(s): 17, 19

The percent recovery (%R) values for one or more surrogates were greater than the upper control limits in the above samples due to noted matrix interference. No corrective action was necessary.

There were no other anomalies associated with this project.

## STL Sacramento Certifications/Accreditations

| Certifying State | Certificate # | Certifying State  | Certificate # |
|------------------|---------------|-------------------|---------------|
| Alaska           | UST-055       | Oregon*           | CA 200005     |
| Arkansas         | 04-067-0      | South Carolina    | 87014002      |
| Colorado         | NA            | Utah*             | QUANI         |
| Florida*         | E87570        | Washington        | C087          |
| Hawaii           | NA            | Wisconsin         | 998204680     |
| Michigan         | 9947          | USACE             | NA            |
| New Jersey*      | CA005         | USDA Foreign Soil | S-46613       |

\*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/03.

## QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary G5F150211

| <u>WO#</u> | <u>Sample #</u> | <u>Client Sample ID</u> | <u>Sampling Date</u> | <u>Received Date</u> |
|------------|-----------------|-------------------------|----------------------|----------------------|
| HDMFN      | 1               | SB-11-5                 | 6/10/2005 08:00 AM   | 6/15/2005 09:20 AM   |
| HDMFP      | 2               | SB-11-9.5               | 6/10/2005 08:13 AM   | 6/15/2005 09:20 AM   |
| HDMFQ      | 3               | SB-11-11                | 6/10/2005 08:17 AM   | 6/15/2005 09:20 AM   |
| HDMFT      | 4               | SB-11-12.5              | 6/10/2005 08:20 AM   | 6/15/2005 09:20 AM   |
| HDMFV      | 5               | SB-11-14                | 6/10/2005 08:26 AM   | 6/15/2005 09:20 AM   |
| HDMFX      | 6               | SB-11-13                | 6/10/2005 08:30 AM   | 6/15/2005 09:20 AM   |
| HDMF0      | 7               | SB-11-15.5              | 6/10/2005 08:35 AM   | 6/15/2005 09:20 AM   |
| HDMF2      | 8               | SB-11-20                | 6/10/2005 08:45 AM   | 6/15/2005 09:20 AM   |
| HDMF6      | 9               | SB-12-5                 | 6/10/2005 09:46 AM   | 6/15/2005 09:20 AM   |
| HDMF8      | 10              | SB-12-9.5               | 6/10/2005 09:55 AM   | 6/15/2005 09:20 AM   |
| HDMGC      | 11              | SB-12-11                | 6/10/2005 10:00 AM   | 6/15/2005 09:20 AM   |
| HDMGF      | 12              | SB-12-12.5              | 6/10/2005 10:05 AM   | 6/15/2005 09:20 AM   |
| HDMGL      | 13              | SB-12-14                | 6/10/2005 10:20 AM   | 6/15/2005 09:20 AM   |
| HDMGM      | 14              | SB-12-15.5              | 6/10/2005 10:22 AM   | 6/15/2005 09:20 AM   |
| HDMGP      | 15              | SB-12-20                | 6/10/2005 10:30 AM   | 6/15/2005 09:20 AM   |
| HDMGT      | 16              | MW-57-5                 | 6/10/2005 12:10 PM   | 6/15/2005 09:20 AM   |
| HDMG2      | 17              | MW-57-11                | 6/10/2005 12:20 PM   | 6/15/2005 09:20 AM   |
| HDMG6      | 18              | MW-57-12.5              | 6/10/2005 12:25 PM   | 6/15/2005 09:20 AM   |
| HDMHA      | 19              | MW-57-20                | 6/10/2005 12:50 PM   | 6/15/2005 09:20 AM   |
| HDMHD      | 20              | SB-13-5                 | 6/10/2005 02:05 PM   | 6/15/2005 09:20 AM   |
| HDMHF      | 21              | SB-13-9.5               | 6/10/2005 02:18 PM   | 6/15/2005 09:20 AM   |
| HDMHG      | 22              | SB-13-11                | 6/10/2005 02:25 PM   | 6/15/2005 09:20 AM   |
| HDMHJ      | 23              | SB-13-12.5              | 6/10/2005 02:30 PM   | 6/15/2005 09:20 AM   |
| HDMHK      | 24              | SB-13-20                | 6/10/2005 02:50 PM   | 6/15/2005 09:20 AM   |
| HDMHL      | 25              | SB-13-15.5              | 6/10/2005 02:45 PM   | 6/15/2005 09:20 AM   |

**Notes(s):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel: 253-922-2310  
Fax: 253-922-5047  
www.stl-inc.com

**Chain of  
Custody Record**

Client: STL-Seattle Project Manager: Tom Coyne Date: 6/14/05 Chain of Custody Number: 15668  
 Address: \_\_\_\_\_ Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Lab Number: \_\_\_\_\_ Page 1 of 3  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_

Project Name and Location (State): WA 255-3510-1 / 255353 Seattle  
 Contract/Purchase Order/Quote No.: 128378  
 Carrier/Waybill Number: \_\_\_\_\_  
 Containers & Preservatives: \_\_\_\_\_  
 Matrix: \_\_\_\_\_

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date    | Time | Matrix | Containers & Preservatives | Analysis (Attach list if more space is needed) | Special Instructions/<br>Conditions of Receipt |
|--|---------|------|--------|----------------------------|--|--|
| SB-11-5  | 6/10/05 | 0800 | X      | MTBC, NUTRICH/187A, MESH   |  |  |
| SB-11-9.5  |         | 0813 |        |                            |  |  |
| SB-11-11   |         | 0817 |        |                            |  |  |
| SB-11-12.5   |         | 0820 |        |                            |  |  |
| SB-11-14   |         | 0876 |        |                            |  |  |
| SB-11-13   |         | 0830 |        |                            |  |  |
| SB-11-15.5   |         | 0835 |        |                            |  |  |
| SB-11-20   |         | 0845 |        |                            |  |  |
| SB-12-5  |         | 0946 |        |                            |  |  |
| SB-12-9.5  |         | 0955 |        |                            |  |  |
| SB-12-11   |         | 1000 |        |                            |  |  |
| SB-12-12.5   |         | 1005 |        |                            |  |  |

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_ Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Disposal By Lab  Archive For \_\_\_\_\_  
 Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days

QC Requirements (Specify): \_\_\_\_\_

| 1. Reinquished By | Date           | Time         | 2. Reinquished By | Date           | Time         | 3. Reinquished By | Date | Time |
|-------------------|----------------|--------------|-------------------|----------------|--------------|-------------------|------|------|
| <u>Chesley</u>    | <u>6/14/05</u> | <u>3:36p</u> | <u>Tom Coyne</u>  | <u>6/15/05</u> | <u>10:00</u> |                   |      |      |

Comments: \_\_\_\_\_

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Tacoma, WA 98424  
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**Chain of  
Custody Record**

G5F150211

Client: STL-Seattle Project Manager: \_\_\_\_\_ Date: 6/14/05 Chain of Custody Number: 15377

Address: \_\_\_\_\_ Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Lab Number: \_\_\_\_\_ Page: 2 of 3

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_

Project Name and Location (State): \_\_\_\_\_ Carrier/Waybill Number: \_\_\_\_\_

Contract/Purchase Order/Quote No.: 128378

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date    | Time | Matrix |     |     |       |       | Containers & Preservatives |       |       |       |       | Special Instructions/<br>Conditions of Receipt |  |
|--|---------|------|--------|-----|-----|-------|-------|----------------------------|-------|-------|-------|-------|--|--|
|  |         |      | Agony  | Sol | Sol | Agony | Agony | Agony                      | Agony | Agony | Agony | Agony |  |  |
| SB-12-14   | 6/10/05 | 1020 | X      |     |     |       |       |                            |       |       |       |       |  |  |
| SB-12-15.5   |         | 1022 |        |     |     |       |       |                            |       |       |       |       |  |  |
| SB-12-20   |         | 1030 |        |     |     |       |       |                            |       |       |       |       |  |  |
| MW-57-5  |         | 1210 |        |     |     |       |       |                            |       |       |       |       |  |  |
| MW-57-11   |         | 1220 |        |     |     |       |       |                            |       |       |       |       |  |  |
| MW-57-12.5   |         | 1225 |        |     |     |       |       |                            |       |       |       |       |  |  |
| MW-57-20   |         | 1250 |        |     |     |       |       |                            |       |       |       |       |  |  |
| <del>SB-13-5</del>   |         | 1405 |        |     |     |       |       |                            |       |       |       |       |  |  |
| SB-13-9.5  |         | 1418 |        |     |     |       |       |                            |       |       |       |       |  |  |
| SB-13-11   |         | 1425 |        |     |     |       |       |                            |       |       |       |       |  |  |
| SB-13-12.5   |         | 1430 |        |     |     |       |       |                            |       |       |       |       |  |  |
| SB-13-20   |         | 1450 |        |     |     |       |       |                            |       |       |       |       |  |  |

Received in good condition UNDERCOC JUN 13 2005 IN

Analysis (Attach list if more space is needed):  
MTPH ex/BK  
M78E  
Naphthalene

Special Instructions/Conditions of Receipt: \_\_\_\_\_

QC Requirements (Specify):  
 1. Received By: [Signature] Date: 6-15-05 Time: 1000  
 2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: \_\_\_\_\_

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Tacoma, WA 98424  
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Fax 253-922-5047  
www.stl-inc.com

**Chain of  
Custody Record**

Client: STL Seattle Project Manager: \_\_\_\_\_ Date: 6/14/05 Chain of Custody Number: 15378

Address: \_\_\_\_\_ Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Lab Number: \_\_\_\_\_ Page: 3 of 3

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_

Project Name and Location (State): \_\_\_\_\_ Carrier/Voybill Number: \_\_\_\_\_

Contract/Purchase Order/Quote No.: 128378

Sample I.D. and Location/Description (Containers for each sample may be combined on one line):  
SB-13-15.5 Date: 6/10/05 Time: 1445

Special Instructions/Conditions of Receipt:  
RECEIVED IN GOOD CONDITION UNDER UCC  
JUL 13 2005  
INI

| Analysis (Attach list if more space is needed) | Containers & Preservatives |      |             |       |       |       |
|--|----------------------------|------|-------------|-------|-------|-------|
|  | WATER                      | MTBE | Naphthalene | Other | Other | Other |
|  | X                          | X    | X           |       |       |       |

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

Turn Around Time Required (business days):  
 24 Hours  48 Hours  5 Days  10 Days  15 Days  Other 6/17

1. Requisitioned By: JR Date: 6/14/05 Time: 3:50  
 2. Requisitioned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Requisitioned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

QC Requirements (Specify):  
 1. Received By: CLY Date: 6-15-05 Time: 1000  
 2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: \_\_\_\_\_



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL Seattle PM JK LOG # 33023  
 LOT# (QUANTIMS ID) G5F15021 QUOTE# 65022 LOCATION VD

DATE RECEIVED 6-15-05 TIME RECEIVED 920

initlals CS Date 6-15-05

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER \_\_\_\_\_

COC #(S) 15668, 15377, 15378

TEMPERATURE BLANK Observed: ~~4.0~~ Corrected: 0

SAMPLE TEMPERATURE

Observed: 3 4 5 Average: 4 Corrected Average: 4.0

COLLECTOR'S NAME:  Verified from COC  Not on COC

PH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: temp blank frozen

# SOLID, NWTPH-G



STL SEATTLE

Client Sample ID: SB-11-5

GC Volatiles

Lot-Sample #...: G5F150211-001    Work Order #...: HDMFN1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
\* Moisture.....: 10    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> |              |
|----------------------|-----------------|------------------|--------------|
|                      |                 | <u>LIMIT</u>     | <u>UNITS</u> |
| TPH (as Gasoline)    | ND              | 5600             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u>  | <u>RECOVERY</u>  |              |
|                      | <u>RECOVERY</u> | <u>LIMITS</u>    |              |
| 4-Bromofluorobenzene | 95              | (39 - 171)       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-11-9.5

GC Volatiles

Lot-Sample #...: G5F150211-002    Work Order #...: HDMFP1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 11    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND              | 5600                             | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>                  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| 4-Bromofluorobenzene | 97              | (39 - 171)                       |              |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-11-11

GC Volatiles

Lot-Sample #...: G5F150211-003    Work Order #...: HDMFQ1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 11    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 55000                       | 5600                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 129                         | (39 - 171)                 |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-11-12.5

GC Volatiles

Lot-Sample #...: G5F150211-004    Work Order #...: HDMFT1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------|--------------|
| TPH (as Gasoline)    | 420000          | 5900                       | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>            |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>              |              |
| 4-Bromofluorobenzene | 492 *           | (39 - 171)                 |              |

NOTE(S) :

\* Surrogate recovery is outside stated control limits.  
Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-11-14

GC Volatiles

Lot-Sample #...: G5F150211-005 Work Order #...: HDMFV1AD Matrix.....: SOLID  
Date Sampled...: 06/10/05 Date Received...: 06/15/05  
Prep Date.....: 06/15/05 Analysis Date...: 06/20/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 14 Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>  | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 6700           | 5800                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u> | <u>RECOVERY</u>                  |              |
| 4-Bromofluorobenzene | RECOVERY<br>89 | LIMITS<br>(39 - 171)             |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-11-13

GC Volatiles

Lot-Sample #...: G5F150211-006    Work Order #...: HDMFX1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5168513  
Dilution Factor: 100  
% Moisture.....: 14    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 2500000 Q                         | 580000                           | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                           | (39 - 171)                       |              |

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery. Results and reporting limits have been adjusted for dry weight.  
Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-11-15.5

GC Volatiles

Lot-Sample #...: G5F150211-007    Work Order #...: HDMF01AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 6100                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 90                                | (39 - 171)                       |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-11-20

GC Volatiles

Lot-Sample #...: G5F150211-008    Work Order #...: HDMF21AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 39    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 69000                       | 8200                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 213 *                       | (39 - 171)                 |              |

NOTE(S):

\* Surrogate recovery is outside stated control limits.  
Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-12-5

GC Volatiles

Lot-Sample #...: G5F150211-009    Work Order #...: HDMF61AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 10    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------|--------------|
| TPH (as Gasoline)    | 7500            | 5600                       | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>            |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>              |              |
| 4-Bromofluorobenzene | 110             | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-12-9.5

GC Volatiles

Lot-Sample #...: G5F150211-010    Work Order #...: HDMF81AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/17/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> |              |
|----------------------|-----------------|------------------|--------------|
|                      |                 | <u>LIMIT</u>     | <u>UNITS</u> |
| TPH (as Gasoline)    | ND              | 6000             | ug/kg        |
|                      |                 |                  |              |
|                      |                 |                  |              |
| <u>SURROGATE</u>     | <u>PERCENT</u>  | <u>RECOVERY</u>  |              |
|                      | <u>RECOVERY</u> | <u>LIMITS</u>    |              |
| 4-Bromofluorobenzene | 95              | (39 - 171)       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-12-11

GC Volatiles

Lot-Sample #...: G5F150211-011    Work Order #...: HDMGCLAD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5168513  
Dilution Factor: 50  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 1500000 Q                         | 300000                           | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                           | (39 - 171)                       |              |

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analytic levels.

STL SEATTLE

Client Sample ID: SB-12-12.5

GC Volatiles

Lot-Sample #...: G5F150211-012    Work Order #...: HDMGF1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5168513  
Dilution Factor: 20  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | 3400000 Q     | 120000                           | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 0.0 SRD                           | (39 - 171)                       |

NOTE (S) :

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-12-14

GC Volatiles

Lot-Sample #...: G5F150211-013    Work Order #...: HDMGL1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5168513  
Dilution Factor: 2  
% Moisture.....:    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> | <u>UNITS</u> |
|----------------------|-----------------|------------------|--------------|
| TPH (as Gasoline)    | 170000 Q        | 10000            | ug/kg        |
|                      | PERCENT         | RECOVERY         |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>    |              |
| 4-Bromofluorobenzene | 62              | (39 - 171)       |              |

NOTE(S) :

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-12-15.5

GC Volatiles

Lot-Sample #...: G5F150211-014    Work Order #...: HDMGM1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received..: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date..: 06/20/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 20    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | 180000        | 6300                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 136                               | (39 - 171)                       |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-12-20

GC Volatiles

Lot-Sample #...: G5F150211-015    Work Order #...: HDMGP1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 25    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 33000                       | 6700                       | ug/kg        |
|                      |                             |                            |              |
|                      |                             |                            |              |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 112                         | (39 - 171)                 |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-57-5

GC Volatiles

Lot-Sample #...: G5F150211-016    Work Order #...: HDMGT1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/17/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 10    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 9600                              | 5600                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 110                               | (39 - 171)                       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: MW-57-11

GC Volatiles

Lot-Sample #...: G5F150211-017    Work Order #...: HDMG21AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/17/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 18    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 45000                             | 6100                             | ug/kg        |
|                      |                                   |                                  |              |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 118                               | (39 - 171)                       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-57-12.5

GC Volatiles

Lot-Sample #...: G5F150211-018    Work Order #...: HDMG61AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/17/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 14    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | 410000        | 5800                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 118                         | (39 - 171)                 |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-57-20

GC Volatiles

Lot-Sample #...: G5F150211-019    Work Order #...: HDMHA1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 20    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | ND            | 6300                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 104                               | (39 - 171)                       |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-13-5

GC Volatiles

Lot-Sample #...: G5F150211-020    Work Order #...: HDMED1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/17/05  
Prep Batch #...: 5168513  
Dilution Factor: 1  
% Moisture.....: 25    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> | <u>LIMIT</u>    | <u>UNITS</u> |
|----------------------|-----------------|------------------|-----------------|--------------|
| TPH (as Gasoline)    | 8800            |                  | 6600            | ug/kg        |
|                      |                 | <u>PERCENT</u>   | <u>RECOVERY</u> |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> |                  | <u>LIMITS</u>   |              |
| 4-Bromofluorobenzene | 101             |                  | (39 - 171)      |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-13-9.5

GC Volatiles

Lot-Sample #...: G5F150211-021    Work Order #...: HDMHF1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/19/05  
Prep Batch #...: 5172245  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> | <u>LIMIT</u>    | <u>UNITS</u> |
|----------------------|-----------------|------------------|-----------------|--------------|
| TPH (as Gasoline)    | ND              |                  | 5900            | ug/kg        |
|                      |                 | <u>PERCENT</u>   | <u>RECOVERY</u> |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> |                  | <u>LIMITS</u>   |              |
| 4-Bromofluorobenzene | 93              |                  | (39 - 171)      |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-13-11

GC Volatiles

Lot-Sample #...: G5F150211-022    Work Order #...: HDMHG1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/19/05  
Prep Batch #...: 5172245  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> | <u>LIMIT</u>    | <u>UNITS</u> |
|----------------------|-----------------|------------------|-----------------|--------------|
| TPH (as Gasoline)    | ND              |                  | 5900            | ug/kg        |
|                      |                 | <u>PERCENT</u>   | <u>RECOVERY</u> |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> |                  | <u>LIMITS</u>   |              |
| 4-Bromofluorobenzene | 93              |                  | (39 - 171)      |              |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-13-12.5

GC Volatiles

Lot-Sample #...: G5F150211-023    Work Order #...: HDMHJ1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/19/05  
Prep Batch #...: 5172245  
Dilution Factor: 1  
% Moisture.....: 13    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> | <u>UNITS</u> |
|----------------------|-----------------|------------------|--------------|
| TPH (as Gasoline)    | ND              | 5700             | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>    |              |
| 4-Bromofluorobenzene | 93              | (39 - 171)       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-13-20

GC Volatiles

Lot-Sample #...: G5F150211-024    Work Order #...: HDMHK1AD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/19/05  
Prep Batch #...: 5172245  
Dilution Factor: 1  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | ND            | 6000                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 93                                | (39 - 171)                       |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-13-15.5

GC Volatiles

Lot-Sample #...: G5F150211-025    Work Order #...: HDMELLAD    Matrix.....: SOLID  
Date Sampled...: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/19/05  
Prep Batch #...: 5172245  
Dilution Factor: 1  
% Moisture.....: 72    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND              | 18000                            | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>                  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| 4-Bromofluorobenzene | 91              | (39 - 171)                       |              |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F150211

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 002            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 003            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 004            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 005            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 006            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 007            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 008            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 009            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 010            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 011            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F150211

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 012            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 013            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 014            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 015            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 016            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 017            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 018            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 019            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 020            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5168513                 |                |
| 021            | SOLID         | ASTM D 2216-90               |                          | 5171613                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168556                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5172245                 |                |
| 022            | SOLID         | ASTM D 2216-90               |                          | 5171614                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168556                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5172245                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F150211

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 023            | SOLID         | ASTM D 2216-90               |                          | 5171614                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168556                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5172245                 |                |
| 024            | SOLID         | ASTM D 2216-90               |                          | 5171614                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168556                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5172245                 |                |
| 025            | SOLID         | ASTM D 2216-90               |                          | 5171614                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5168556                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5172245                 |                |

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G5F150211      Work Order #...: HDWNXLAA      Matrix.....: SOLID  
MB Lot-Sample #: G5F170000-513  
Analysis Date...: 06/16/05      Prep Date.....: 06/15/05  
Dilution Factor: 1              Prep Batch #...: 5168513

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>  |
|----------------------|-----------------------------|----------------------------|--------------|----------------|
| TPH (as Gasoline)    | ND                          | 5000                       | ug/kg        | NWTPH NWTPH-Gx |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |                |
| 4-Bromofluorobenzene | 87                          | (39 - 171)                 |              |                |

NOTE(S) :

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G5F150211      Work Order #...: HD2LE1AA      Matrix.....: SOLID  
MB Lot-Sample #: G5F210000-245  
Analysis Date...: 06/16/05      Prep Date.....: 06/15/05  
Dilution Factor: 1              Prep Batch #...: 5172245

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>  |
|----------------------|-----------------------------------|----------------------------------|--------------|----------------|
| TPH (as Gasoline)    | ND                                | 5000                             | ug/kg        | NWTPH NWTPH-Gx |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |                |
| 4-Bromofluorobenzene | 94                                | (39 - 171)                       |              |                |

NOTE(S) :

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

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC Volatiles**

Client Lot #...: G5F150211      Work Order #...: HDWNXLAC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F170000-513      HDWNX1AD-LCSD  
 Prep Date.....: 06/15/05      Analysis Date...: 06/16/05  
 Prep Batch #...: 5168513  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u>  |
|-------------------|-------------------------|------------------------|------------|-------------------|----------------|
| TPH (as Gasoline) | 104                     | (73 - 136)             |            |                   | NWTPH NWTPH-Gx |
|                   | 104                     | (73 - 136)             | 0.31       | (0-21)            | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 99                      | (39 - 171)             |
|                      | 98                      | (39 - 171)             |

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: G5F150211      Work Order #...: HDWNX1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F170000-513      HDWNX1AD-LCSD  
 Prep Date.....: 06/15/05      Analysis Date...: 06/16/05  
 Prep Batch #...: 5168513  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>  |
|-------------------|---------------------|------------------------|--------------|-------------------------|------------|----------------|
| TPH (as Gasoline) | 50000               | 51900                  | ug/kg        | 104                     |            | NWTPH NWTPH-Gx |
|                   | 50000               | 52000                  | ug/kg        | 104                     | 0.31       | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 99                      | (39 - 171)             |
|                      | 98                      | (39 - 171)             |

**NOTE(S) :**

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

Bold print denotes control parameters



**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC Volatiles**

Client Lot #...: G5F150211      Work Order #...: HD2LE1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F210000-245      HD2LE1AD-LCSD  
 Prep Date.....: 06/15/05      Analysis Date...: 06/16/05  
 Prep Batch #...: 5172245  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u>  |
|-------------------|-------------------------|------------------------|------------|-------------------|----------------|
| TPH (as Gasoline) | 104                     | (73 - 136)             |            |                   | NWTPH NWTPH-Gx |
|                   | 103                     | (73 - 136)             | 0.52       | (0-21)            | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 107                     | (39 - 171)             |
|                      | 104                     | (39 - 171)             |

**NOTE(S):**

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: G5F150211      Work Order #...: HD2LE1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F210000-245      HD2LE1AD-LCSD  
 Prep Date.....: 06/15/05      Analysis Date...: 06/16/05  
 Prep Batch #...: 5172245  
 Dilution Factor: 1

| <u>PARAMETER</u>     | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>          |
|----------------------|---------------------|------------------------|--------------|-------------------------|------------|------------------------|
| TPH (as Gasoline)    | 50000               | 51800                  | ug/kg        | 104                     |            | NWTPH NWTPH-Gx         |
|                      | 50000               | 51600                  | ug/kg        | 103                     | 0.52       | NWTPH NWTPH-Gx         |
| <u>SURROGATE</u>     |                     |                        |              | <u>PERCENT RECOVERY</u> |            | <u>RECOVERY LIMITS</u> |
| 4-Bromofluorobenzene |                     |                        |              | 107                     |            | (39 - 171)             |
|                      |                     |                        |              | 104                     |            | (39 - 171)             |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

# SOLID, 8260B, BTEX/MTBE/Naphthalene

STL SEATTLE

Client Sample ID: SB-11-5

GC/MS Volatiles

Lot-Sample #...: G5F150211-001    Work Order #...: HDMFN1AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/15/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 0.97  
 % Moisture.....: 10    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | ND            | 270                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 540                        | ug/kg        |
| Benzene                           | 96            | 32                         | ug/kg        |
| Toluene                           | ND            | 270                        | ug/kg        |
| Ethylbenzene                      | ND            | 270                        | ug/kg        |
| Naphthalene                       | ND            | 270                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 103                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 107                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 102                         | (43 - 147)                 |
| Toluene-d8            | 115                         | (47 - 145)                 |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-11-9.5

GC/MS Volatiles

Lot-Sample #....: G5F150211-002    Work Order #....: HDMFP1AC    Matrix.....: SOLID  
Date Sampled....: 06/10/05    Date Received...: 06/15/05  
Prep Date.....: 06/15/05    Analysis Date...: 06/15/05  
Prep Batch #....: 5168555  
Dilution Factor: 0.8  
% Moisture.....: 11    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | ND            | 220                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 450                        | ug/kg        |
| Benzene                           | ND            | 27                         | ug/kg        |
| Toluene                           | ND            | 220                        | ug/kg        |
| Ethylbenzene                      | ND            | 220                        | ug/kg        |
| Naphthalene                       | ND            | 220                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 121                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 128                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 119                         | (43 - 147)                 |
| Toluene-d8            | 134                         | (47 - 145)                 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-11-11

GC/MS Volatiles

Lot-Sample #....: G5F150211-003    Work Order #....: HDMFQ1AC    Matrix.....: SOLID  
 Date Sampled....: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #....: 5168555  
 Dilution Factor: 1.03  
 % Moisture.....: 11    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | 4400          | 290                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 580                        | ug/kg        |
| Benzene                           | 320           | 35                         | ug/kg        |
| Toluene                           | 1300          | 290                        | ug/kg        |
| Ethylbenzene                      | 520           | 290                        | ug/kg        |
| Naphthalene                       | 660           | 290                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 105                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 117                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 104                         | (43 - 147)                 |
| Toluene-d8            | 118                         | (47 - 145)                 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-11-12.5

GC/MS Volatiles

Lot-Sample #...: G5F150211-004    Work Order #...: HDMFT1AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 3.75  
 % Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                         | RESULT  | REPORTING |       |
|-----------------------------------|---------|-----------|-------|
|                                   |         | LIMIT     | UNITS |
| Xylenes (total)                   | 18000 Q | 1100      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND      | 2200      | ug/kg |
| Benzene                           | 2300    | 130       | ug/kg |
| Toluene                           | ND      | 1100      | ug/kg |
| Ethylbenzene                      | 22000   | 1100      | ug/kg |
| Naphthalene                       | 41000   | 1100      | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 102      | (44 - 142) |
| 4-Bromofluorobenzene  | 119      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 103      | (43 - 147) |
| Toluene-d8            | 114      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-11-14

GC/MS Volatiles

Lot-Sample #....: G5F150211-005    Work Order #....: HDMFV1AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/15/05  
 Prep Batch #....: 5168555  
 Dilution Factor: 0.62  
 % Moisture.....: 14    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 180       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 360       | ug/kg |
| Benzene                           | ND     | 22        | ug/kg |
| Toluene                           | ND     | 180       | ug/kg |
| Ethylbenzene                      | ND     | 180       | ug/kg |
| Naphthalene                       | ND     | 180       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 118      | (44 - 142) |
| 4-Bromofluorobenzene  | 127      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 115      | (43 - 147) |
| Toluene-d8            | 134      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-11-13

GC/MS Volatiles

Lot-Sample #....: G5F150211-006    Work Order #....: HDMFX1AC    Matrix.....: SOLID  
 Date Sampled....: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #....: 5168555  
 Dilution Factor: 19.23  
 % Moisture.....: 14    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING |       |
|-----------------------------------|----------|-----------|-------|
|                                   |          | LIMIT     | UNITS |
| Xylenes (total)                   | 390000 Q | 5600      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 11000     | ug/kg |
| Benzene                           | 34000    | 670       | ug/kg |
| Toluene                           | ND       | 5600      | ug/kg |
| Ethylbenzene                      | 730000   | 5600      | ug/kg |
| Naphthalene                       | 380000   | 5600      | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 0.0 SRD  | (44 - 142) |
| 4-Bromofluorobenzene  | 0.0 SRD  | (41 - 152) |
| 1,2-Dichloroethane-d4 | 0.0 SRD  | (43 - 147) |
| Toluene-d8            | 0.0 SRD  | (47 - 145) |

**NOTE(S):**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
 Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-11-15.5

GC/MS Volatiles

Lot-Sample #...: G5F150211-007    Work Order #...: HDMF01AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 0.87  
 % Moisture.....: 17    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | ND            | 260                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 530                        | ug/kg        |
| Benzene                           | 38            | 32                         | ug/kg        |
| Toluene                           | ND            | 260                        | ug/kg        |
| Ethylbenzene                      | ND            | 260                        | ug/kg        |
| Naphthalene                       | ND            | 260                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 96                          | (44 - 142)                 |
| 4-Bromofluorobenzene  | 106                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 95                          | (43 - 147)                 |
| Toluene-d8            | 110                         | (47 - 145)                 |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-11-20

GC/MS Volatiles

Lot-Sample #...: G5F150211-008    Work Order #...: HDMF21AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/15/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 1.3  
 % Moisture.....: 39    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 560    | 540       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 1100      | ug/kg |
| Benzene                           | 300    | 64        | ug/kg |
| Toluene                           | ND     | 540       | ug/kg |
| Ethylbenzene                      | 470 J  | 540       | ug/kg |
| Naphthalene                       | 340 J  | 540       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 117      | (44 - 142) |
| 4-Bromofluorobenzene  | 133      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 118      | (43 - 147) |
| Toluene-d8            | 133      | (47 - 145) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-12-5

GC/MS Volatiles

Lot-Sample #...: G5F150211-009    Work Order #...: HDMF61AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 0.75  
 % Moisture.....: 10    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 210       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 420       | ug/kg |
| Benzene                           | ND     | 25        | ug/kg |
| Toluene                           | ND     | 210       | ug/kg |
| Ethylbenzene                      | ND     | 210       | ug/kg |
| Naphthalene                       | ND     | 210       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 108      | (44 - 142) |
| 4-Bromofluorobenzene  | 124      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 112      | (43 - 147) |
| Toluene-d8            | 124      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-12-9.5

GC/MS Volatiles

Lot-Sample #....: G5F150211-010    Work Order #....: HDMF81AC    Matrix.....: SOLID  
 Date Sampled....: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/15/05  
 Prep Batch #....: 5168555  
 Dilution Factor: 0.73  
 % Moisture.....: 17    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 88 J   | 220       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 440       | ug/kg |
| Benzene                           | ND     | 26        | ug/kg |
| Toluene                           | ND     | 220       | ug/kg |
| Ethylbenzene                      | ND     | 220       | ug/kg |
| Naphthalene                       | ND     | 220       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 111      | (44 - 142) |
| 4-Bromofluorobenzene  | 122      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 111      | (43 - 147) |
| Toluene-d8            | 126      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-12-11

GC/MS Volatiles

Lot-Sample #....: G5F150211-011    Work Order #....: HDMGC1AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #....: 5168555  
 Dilution Factor: 13.61  
 % Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                      | RESULT    | REPORTING LIMIT | UNITS |
|--------------------------------|-----------|-----------------|-------|
| Xylenes (total)                | 2200000 Q | 4100            | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND        | 8100            | ug/kg |
| Benzene                        | ND        | 490             | ug/kg |
| Toluene                        | 100000    | 4100            | ug/kg |
| Ethylbenzene                   | 100000    | 4100            | ug/kg |
| Naphthalene                    | 230000    | 4100            | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 0.0 SRD          | (44 - 142)      |
| 4-Bromofluorobenzene  | 0.0 SRD          | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 0.0 SRD          | (43 - 147)      |
| Toluene-d8            | 0.0 SRD          | (47 - 145)      |

**NOTE(S):**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-12-12.5

GC/MS Volatiles

Lot-Sample #...: G5F150211-012    Work Order #...: HDMGF1AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 40.75  
 % Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |       |
|-----------------------------------|-----------------|---------------|-------|
|                                   |                 | LIMIT         | UNITS |
| Xylenes (total)                   | 1800000 Q       | 12000         | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 24000         | ug/kg |
| Benzene                           | 110000          | 1500          | ug/kg |
| Toluene                           | 240000          | 12000         | ug/kg |
| Ethylbenzene                      | 1600000         | 12000         | ug/kg |
| Naphthalene                       | 1400000         | 12000         | ug/kg |
|                                   | PERCENT         | RECOVERY      |       |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |       |
| Dibromofluoromethane              | 0.0 SRD         | (44 - 142)    |       |
| 4-Bromofluorobenzene              | 0.0 SRD         | (41 - 152)    |       |
| 1,2-Dichloroethane-d4             | 0.0 SRD         | (43 - 147)    |       |
| Toluene-d8                        | 0.0 SRD         | (47 - 145)    |       |

**NOTE(S):**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-12-14

GC/MS Volatiles

Lot-Sample #....: G5F150211-013    Work Order #....: HDMGL1AC    Matrix.....: SOLID  
 Date Sampled....: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #....: 5168555  
 Dilution Factor: 3.5  
 ‡ Moisture.....:    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | 56000 Q       | 880                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 1800                       | ug/kg        |
| Benzene                           | 1600          | 100                        | ug/kg        |
| Toluene                           | 1400          | 880                        | ug/kg        |
| Ethylbenzene                      | 19000         | 880                        | ug/kg        |
| Naphthalene                       | 10000         | 880                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 100                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 113                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 100                         | (43 - 147)                 |
| Toluene-d8            | 118                         | (47 - 145)                 |

**NOTE(S):**

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.



STL SEATTLE

Client Sample ID: SB-12-15.5

GC/MS Volatiles

Lot-Sample #....: G5F150211-014    Work Order #....: HDMGMLAC    Matrix.....: SOLID  
 Date Sampled....: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #....: 5168555  
 Dilution Factor: 3.57  
 % Moisture.....: 20    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|-------------------------|------------------------|--------------|
| Xylenes (total)                   | 51000 Q                 | 1100                   | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND                      | 2200                   | ug/kg        |
| Benzene                           | 1700                    | 130                    | ug/kg        |
| Toluene                           | ND                      | 1100                   | ug/kg        |
| Ethylbenzene                      | 22000                   | 1100                   | ug/kg        |
| Naphthalene                       | 11000                   | 1100                   | ug/kg        |
|                                   | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |              |
| Dibromofluoromethane              | 98                      | (44 - 142)             |              |
| 4-Bromofluorobenzene              | 109                     | (41 - 152)             |              |
| 1,2-Dichloroethane-d4             | 98                      | (43 - 147)             |              |
| Toluene-d8                        | 123                     | (47 - 145)             |              |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-12-20

GC/MS Volatiles

Lot-Sample #...: G5F150211-015    Work Order #...: HDMGP1AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 0.92  
 † Moisture.....: 25    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | 1700   | 310                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 610                | ug/kg |
| Benzene                           | ND     | 37                 | ug/kg |
| Toluene                           | 190 J  | 310                | ug/kg |
| Ethylbenzene                      | 470    | 310                | ug/kg |
| Naphthalene                       | 400    | 310                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 124                 | (44 - 142)         |
| 4-Bromofluorobenzene  | 137                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 118                 | (43 - 147)         |
| Toluene-d8            | 143                 | (47 - 145)         |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-57-5

GC/MS Volatiles

Lot-Sample #....: G5F150211-016    Work Order #....: HDMGT1AC    Matrix.....: SOLID  
 Date Sampled....: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #....: 5168555  
 Dilution Factor: 0.87  
 % Moisture.....: 10    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | ND            | 240                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 490                        | ug/kg        |
| Benzene                           | ND            | 29                         | ug/kg        |
| Toluene                           | ND            | 240                        | ug/kg        |
| Ethylbenzene                      | ND            | 240                        | ug/kg        |
| Naphthalene                       | ND            | 240                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 118                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 128                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 118                         | (43 - 147)                 |
| Toluene-d8            | 132                         | (47 - 145)                 |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-57-11

GC/MS Volatiles

Lot-Sample #...: G5F150211-017    Work Order #...: HDMG21AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/17/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 1.45  
 % Moisture.....: 18    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | 7100 Q   | 440        | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 890        | ug/kg |
| Benzene                           | 1900     | 53         | ug/kg |
| Toluene                           | ND       | 440        | ug/kg |
| Ethylbenzene                      | 2200     | 440        | ug/kg |
| Naphthalene                       | 160 J    | 440        | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 146 *, I | (44 - 142) |       |
| 4-Bromofluorobenzene              | 152      | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 146      | (43 - 147) |       |
| Toluene-d8                        | 164 *, I | (47 - 145) |       |

NOTE(S):

- \* Surrogate recovery is outside stated control limits.
- I Matrix interference.
- Results and reporting limits have been adjusted for dry weights.
- Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
- J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-57-12.5

GC/MS Volatiles

Lot-Sample #....: G5F150211-018    Work Order #....: HDMG61AC    Matrix.....: SOLID  
 Date Sampled....: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #....: 5168555  
 Dilution Factor: 8.64  
 % Moisture.....: 14    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING |       |
|-----------------------------------|----------|-----------|-------|
|                                   |          | LIMIT     | UNITS |
| Xylenes (total)                   | 540000 Q | 2500      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 5000      | ug/kg |
| Benzene                           | 23000    | 300       | ug/kg |
| Toluene                           | 250000   | 2500      | ug/kg |
| Ethylbenzene                      | 95000    | 2500      | ug/kg |
| Naphthalene                       | 53000    | 2500      | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 0.0      | (44 - 142) |
| 4-Bromofluorobenzene  | 0.0      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 0.0      | (43 - 147) |
| Toluene-d8            | 0.0      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: MW-57-20

GC/MS Volatiles

Lot-Sample #....: G5F150211-019    Work Order #....: HDMHA1AC    Matrix.....: SOLID  
 Date Sampled....: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/17/05  
 Prep Batch #....: 5168555  
 Dilution Factor: 0.87  
 % Moisture.....: 20    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 270       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 540       | ug/kg |
| Benzene                           | ND     | 33        | ug/kg |
| Toluene                           | 110 J  | 270       | ug/kg |
| Ethylbenzene                      | ND     | 270       | ug/kg |
| Naphthalene                       | 190 J  | 270       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 129      | (44 - 142) |
| 4-Bromofluorobenzene  | 136      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 127      | (43 - 147) |
| Toluene-d8            | 147 *, I | (47 - 145) |

**NOTE(S) :**

- \* Surrogate recovery is outside stated control limits.
  - I Matrix interference.
- Results and reporting limits have been adjusted for dry weight.
- J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-13-5

GC/MS Volatiles

Lot-Sample #...: G5F150211-020    Work Order #...: HDMHD1AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 1.1  
 % Moisture.....: 25    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 360       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 730       | ug/kg |
| Benzene                           | ND     | 44        | ug/kg |
| Toluene                           | ND     | 360       | ug/kg |
| Ethylbenzene                      | ND     | 360       | ug/kg |
| Naphthalene                       | ND     | 360       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 121      | (44 - 142) |
| 4-Bromofluorobenzene  | 135      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 119      | (43 - 147) |
| Toluene-d8            | 141      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-13-9.5

GC/MS Volatiles

Lot-Sample #...: G5F150211-021    Work Order #...: HDMHF1AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/15/05  
 Prep Batch #...: 5168556  
 Dilution Factor: 0.84  
 ‡ Moisture.....: 15    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | ND     | 250                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 490                | ug/kg |
| Benzene                           | 120    | 30                 | ug/kg |
| Toluene                           | ND     | 250                | ug/kg |
| Ethylbenzene                      | ND     | 250                | ug/kg |
| Naphthalene                       | ND     | 250                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 104                 | (44 - 142)         |
| 4-Bromofluorobenzene  | 105                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 102                 | (43 - 147)         |
| Toluene-d8            | 110                 | (47 - 145)         |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-13-11

GC/MS Volatiles

Lot-Sample #...: G5F150211-022    Work Order #...: HDMHG1AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/15/05  
 Prep Batch #...: 5168556  
 Dilution Factor: 0.77  
 % Moisture.....: 15    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 230       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 460       | ug/kg |
| Benzene                           | 150    | 27        | ug/kg |
| Toluene                           | ND     | 230       | ug/kg |
| Ethylbenzene                      | ND     | 230       | ug/kg |
| Naphthalene                       | ND     | 230       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 107      | (44 - 142) |
| 4-Bromofluorobenzene  | 110      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 107      | (43 - 147) |
| Toluene-d8            | 113      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-13-12.5

GC/MS Volatiles

Lot-Sample #...: G5F150211-023    Work Order #...: HDMHJ1AC    Matrix.....: SOLID  
 Date Sampled...: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/15/05  
 Prep Batch #...: 5168556  
 Dilution Factor: 0.73  
 % Moisture.....: 13    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | 120 J  | 210                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 420                | ug/kg |
| Benzene                           | 42     | 25                 | ug/kg |
| Toluene                           | ND     | 210                | ug/kg |
| Ethylbenzene                      | ND     | 210                | ug/kg |
| Naphthalene                       | ND     | 210                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 106                 | (44 - 142)         |
| 4-Bromofluorobenzene  | 109                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 104                 | (43 - 147)         |
| Toluene-d8            | 116                 | (47 - 145)         |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-13-20

GC/MS Volatiles

Lot-Sample #....: G5F150211-024    Work Order #....: HDMHK1AC    Matrix.....: SOLID  
 Date Sampled....: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/15/05  
 Prep Batch #....: 5168556  
 Dilution Factor: 0.82  
 % Moisture.....: 16    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | ND            | 240                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 490                        | ug/kg        |
| Benzene                           | ND            | 29                         | ug/kg        |
| Toluene                           | ND            | 240                        | ug/kg        |
| Ethylbenzene                      | ND            | 240                        | ug/kg        |
| Naphthalene                       | ND            | 240                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 107                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 106                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 107                         | (43 - 147)                 |
| Toluene-d8            | 114                         | (47 - 145)                 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-13-15.5

GC/MS Volatiles

Lot-Sample #....: G5F150211-025    Work Order #....: HDMHL1AC    Matrix.....: SOLID  
 Date Sampled....: 06/10/05    Date Received...: 06/15/05  
 Prep Date.....: 06/15/05    Analysis Date...: 06/15/05  
 Prep Batch #....: 5168556  
 Dilution Factor: 1.4  
 % Moisture.....: 72    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 1200      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 2500      | ug/kg |
| Benzene                           | ND     | 150       | ug/kg |
| Toluene                           | ND     | 1200      | ug/kg |
| Ethylbenzene                      | ND     | 1200      | ug/kg |
| Naphthalene                       | ND     | 1200      | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 109      | (44 - 142) |
| 4-Bromofluorobenzene  | 112      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 109      | (43 - 147) |
| Toluene-d8            | 115      | (47 - 145) |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F150211

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 002            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 003            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 004            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 005            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 006            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 007            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 008            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 009            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 010            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 011            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 012            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 013            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 014            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 015            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 016            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 017            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 018            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 019            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 020            | SOLID         | SW846 8260B                  |                          | 5168555                 |                |
| 021            | SOLID         | SW846 8260B                  |                          | 5168556                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F150211

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 022            | SOLID         | SW846 8260B                  |                          | 5168556                 |                |
| 023            | SOLID         | SW846 8260B                  |                          | 5168556                 |                |
| 024            | SOLID         | SW846 8260B                  |                          | 5168556                 |                |
| 025            | SOLID         | SW846 8260B                  |                          | 5168556                 |                |

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G5F150211      Work Order #...: HDW241AA      Matrix.....: SOLID  
 MB Lot-Sample #: G5F170000-555  
 Prep Date.....: 06/15/05  
 Analysis Date...: 06/15/05      Prep Batch #...: 5168555  
 Dilution Factor: 1

| PARAMETER                         | RESULT | REPORTING |       | METHOD      |
|-----------------------------------|--------|-----------|-------|-------------|
|                                   |        | LIMIT     | UNITS |             |
| Xylenes (total)                   | ND     | 250       | ug/kg | SW846 8260B |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 500       | ug/kg | SW846 8260B |
| Benzene                           | ND     | 30        | ug/kg | SW846 8260B |
| Toluene                           | ND     | 250       | ug/kg | SW846 8260B |
| Ethylbenzene                      | ND     | 250       | ug/kg | SW846 8260B |
| Naphthalene                       | ND     | 250       | ug/kg | SW846 8260B |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 108      | (44 - 142) |
| 4-Bromofluorobenzene  | 118      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 106      | (43 - 147) |
| Toluene-d8            | 121      | (47 - 145) |

**NOTE (S):**

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G5F150211      Work Order #...: HDW251AA      Matrix.....: SOLID  
 MB Lot-Sample #: G5F170000-556  
 Analysis Date...: 06/15/05      Prep Date.....: 06/15/05  
 Dilution Factor: 1      Prep Batch #...: 5168556

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|-----------------------------------|---------------|----------------------------|--------------|---------------|
| Xylenes (total)                   | ND            | 250                        | ug/kg        | SW846 8260B   |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 500                        | ug/kg        | SW846 8260B   |
| Benzene                           | ND            | 30                         | ug/kg        | SW846 8260B   |
| Toluene                           | ND            | 250                        | ug/kg        | SW846 8260B   |
| Ethylbenzene                      | ND            | 250                        | ug/kg        | SW846 8260B   |
| Naphthalene                       | ND            | 250                        | ug/kg        | SW846 8260B   |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 106                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 115                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 105                         | (43 - 147)                 |
| Toluene-d8            | 113                         | (47 - 145)                 |

**NOTE(S):**

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



**LABORATORY CONTROL SAMPLE DATA REPORT**

**GC/MS Volatiles**

Client Lot #...: G5F150211      Work Order #...: HDW241AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F170000-555      HDW241AD-LCSD  
 Prep Date.....: 06/15/05      Analysis Date...: 06/15/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 1

| <u>PARAMETER</u>                  | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>      |
|-----------------------------------|---------------------|------------------------|--------------|-------------------------|------------|--------------------|
| Methyl tert-butyl ether<br>(MTBE) | 1000                | 1040                   | ug/kg        | 104                     |            | SW846 8260B        |
|                                   | 1000                | 1020                   | ug/kg        | 102                     | 1.3        | SW846 8260B        |
| <b>Benzene</b>                    | <b>1000</b>         | <b>1010</b>            | <b>ug/kg</b> | <b>101</b>              |            | <b>SW846 8260B</b> |
|                                   | 1000                | 982                    | ug/kg        | 98                      | 2.4        | SW846 8260B        |
| <b>Toluene</b>                    | <b>1000</b>         | <b>1070</b>            | <b>ug/kg</b> | <b>107</b>              |            | <b>SW846 8260B</b> |
|                                   | 1000                | 1070                   | ug/kg        | 107                     | 0.33       | SW846 8260B        |
| Ethylbenzene                      | 1000                | 1130                   | ug/kg        | 113                     |            | SW846 8260B        |
|                                   | 1000                | 1120                   | ug/kg        | 112                     | 0.72       | SW846 8260B        |
| Naphthalene                       | 1000                | 1120                   | ug/kg        | 112                     |            | SW846 8260B        |
|                                   | 1000                | 1090                   | ug/kg        | 109                     | 3.3        | SW846 8260B        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 100                     | (44 - 142)             |
|                       | 99                      | (44 - 142)             |
| 4-Bromofluorobenzene  | 108                     | (41 - 152)             |
|                       | 108                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 95                      | (43 - 147)             |
|                       | 95                      | (43 - 147)             |
| Toluene-d8            | 112                     | (47 - 145)             |
|                       | 110                     | (47 - 145)             |

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G5F150211      Work Order #...: HDW241AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F170000-555      HDW241AD-LCSD  
 Prep Date.....: 06/15/05      Analysis Date...: 06/15/05  
 Prep Batch #...: 5168555  
 Dilution Factor: 1

| <u>PARAMETER</u>                  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|-----------------------------------|-------------------------|------------------------|------------|-------------------|---------------|
| Methyl tert-butyl ether<br>(MTBE) | 104                     | (70 - 120)             |            |                   | SW846 8260B   |
|                                   | 102                     | (70 - 120)             | 1.3        | (0-36)            | SW846 8260B   |
| <b>Benzene</b>                    | 101                     | (76 - 120)             |            |                   | SW846 8260B   |
|                                   | 98                      | (76 - 120)             | 2.4        | (0-24)            | SW846 8260B   |
| <b>Toluene</b>                    | 107                     | (79 - 120)             |            |                   | SW846 8260B   |
|                                   | 107                     | (79 - 120)             | 0.33       | (0-17)            | SW846 8260B   |
| <b>Ethylbenzene</b>               | 113                     | (79 - 120)             |            |                   | SW846 8260B   |
|                                   | 112                     | (79 - 120)             | 0.72       | (0-20)            | SW846 8260B   |
| <b>Naphthalene</b>                | 112                     | (64 - 133)             |            |                   | SW846 8260B   |
|                                   | 109                     | (64 - 133)             | 3.3        | (0-47)            | SW846 8260B   |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 100                     | (44 - 142)             |
|                       | 99                      | (44 - 142)             |
| 4-Bromofluorobenzene  | 108                     | (41 - 152)             |
|                       | 108                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 95                      | (43 - 147)             |
|                       | 95                      | (43 - 147)             |
| Toluene-d8            | 112                     | (47 - 145)             |
|                       | 110                     | (47 - 145)             |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

**LABORATORY CONTROL SAMPLE DATA REPORT**

**GC/MS Volatiles**

Client Lot #...: G5F150211      Work Order #...: HDW251AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F170000-556      HDW251AD-LCSD  
 Prep Date.....: 06/15/05      Analysis Date...: 06/15/05  
 Prep Batch #...: 5168556  
 Dilution Factor: 1

| <u>PARAMETER</u>               | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u> |
|--------------------------------|---------------------|------------------------|--------------|-------------------------|------------|---------------|
| Methyl tert-butyl ether (MTBE) | 1000                | 894                    | ug/kg        | 89                      |            | SW846 8260B   |
|                                | 1000                | 846                    | ug/kg        | 85                      | 5.5        | SW846 8260B   |
| Benzene                        | 1000                | 1030                   | ug/kg        | 103                     |            | SW846 8260B   |
|                                | 1000                | 1010                   | ug/kg        | 101                     | 2.5        | SW846 8260B   |
| Toluene                        | 1000                | 1090                   | ug/kg        | 109                     |            | SW846 8260B   |
|                                | 1000                | 1050                   | ug/kg        | 105                     | 3.5        | SW846 8260B   |
| Ethylbenzene                   | 1000                | 1150                   | ug/kg        | 115                     |            | SW846 8260B   |
|                                | 1000                | 1110                   | ug/kg        | 111                     | 3.4        | SW846 8260B   |
| Naphthalene                    | 1000                | 1140                   | ug/kg        | 114                     |            | SW846 8260B   |
|                                | 1000                | 901                    | ug/kg        | 90                      | 24         | SW846 8260B   |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 104                     | (44 - 142)             |
|                       | 105                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 110                     | (41 - 152)             |
|                       | 105                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 99                      | (43 - 147)             |
|                       | 97                      | (43 - 147)             |
| Toluene-d8            | 112                     | (47 - 145)             |
|                       | 112                     | (47 - 145)             |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters



STL Seattle  
5755 8<sup>th</sup> Street East  
Tacoma, WA 98424

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**TRANSMITTAL MEMORANDUM**

DATE: June 23, 2005

TO: Eric Larsen  
Delta Environmental  
17720 NE 65th Street Ste 201  
Redmond, WA 98052

PROJECT: WA255-3510-1/255353 Seattle

REPORT NUMBER: 128379

TOTAL NUMBER OF PAGES: \_\_\_\_\_

Enclosed are the test results for fourteen samples received at STL Seattle on June 14, 2005. NWTPH-Gx and volatile organics analysis was performed at STL Sacramento.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

  
Tom Coyner  
Project Manager

---

STL Seattle is a part of Severn Trent Laboratories, Inc.

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# STL Seattle

## Sample Identification:

| <u>Lab. No.</u> | <u>Client ID</u> | <u>Date/Time Sampled</u> | <u>Matrix</u> |
|-----------------|------------------|--------------------------|---------------|
| 128379-1        | SB-14-5          | 06-13-05 07:45           | solid         |
| 128379-2        | SB-14-10         | 06-13-05 07:57           | solid         |
| 128379-3        | SB-14-15         | 06-13-05 08:14           | solid         |
| 128379-4        | SB-14-20         | 06-13-05 08:20           | solid         |
| 128379-5        | SB-15-9          | 06-13-05 10:15           | solid         |
| 128379-6        | SB-15-10         | 06-13-05 10:22           | solid         |
| 128379-7        | SB-15-12         | 06-13-05 10:30           | solid         |
| 128379-8        | SB-15-15         | 06-13-05 10:36           | solid         |
| 128379-9        | SB-15-20         | 06-13-05 10:50           | solid         |
| 128379-10       | SB-16-5          | 06-13-05 11:45           | solid         |
| 128379-11       | SB-16-10         | 06-13-05 11:54           | solid         |
| 128379-12       | SB-16-12         | 06-13-05 12:00           | solid         |
| 128379-13       | SB-16-15         | 06-13-05 12:15           | solid         |
| 128379-14       | SB-16-20         | 06-13-05 12:24           | solid         |

---

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# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-14-5             |
| Lab ID:         | 128379-01           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/17/2005           |
| % Solids        | 73.71               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 80.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 32   |       |
| Motor Oil | ND             | 64.1 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-14-10            |
| Lab ID:         | 128379-02           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 85.63               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 69.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 1270           | 27.7 | X1    |
| Motor Oil | 58.1           | 55.3 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-14-15            |
| Lab ID:         | 128379-03           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 80.27               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 67.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 30.9 |       |
| Motor Oil | ND             | 61.7 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-14-20            |
| Lab ID:         | 128379-04           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 26.74               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 47.1       | X9    | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 89.9 |       |
| Motor Oil | ND             | 180  |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-15-9             |
| Lab ID:         | 128379-05           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 91.33               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 84.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.1 |       |
| Motor Oil | ND             | 52.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-15-10            |
| Lab ID:         | 128379-06           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 77.33               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 69.5       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 31   |       |
| Motor Oil | ND             | 61.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-15-12            |
| Lab ID:         | 128379-07           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 83.28               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 55.6       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.6 |       |
| Motor Oil | ND             | 57.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-15-15            |
| Lab ID:         | 128379-08           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 81.97               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 68.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.2 |       |
| Motor Oil | ND             | 56.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-15-20            |
| Lab ID:         | 128379-09           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 43.85               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 40         | X9    | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 54.6 |       |
| Motor Oil | ND             | 109  |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-16-5             |
| Lab ID:         | 128379-10           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 85.4                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 68.5       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.8 |       |
| Motor Oil | ND             | 57.6 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-16-10            |
| Lab ID:         | 128379-11           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/17/2005           |
| % Solids        | 89.4                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 56         |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.7 |       |
| Motor Oil | ND             | 55.5 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-16-12            |
| Lab ID:         | 128379-12           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 83.61               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 54.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 82.4           | 29.7 | X1    |
| Motor Oil | ND             | 59.4 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-16-15            |
| Lab ID:         | 128379-13           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 76.92               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 67.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 64.9           | 30.4 | X1    |
| Motor Oil | ND             | 60.7 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-16-20            |
| Lab ID:         | 128379-14           |
| Date Received:  | 6/14/2005           |
| Date Prepared:  | 6/15/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 32.98               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 41.3       | X9    | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 73.4 |       |
| Motor Oil | ND             | 147  |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-14-5             |
| Lab ID:         | 128379-01           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 73.71               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.52 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-14-10            |
| Lab ID:         | 128379-02           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 85.63               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 8.44              | 1.94 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-14-15            |
| Lab ID:         | 128379-03           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 80.27               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 4.11              | 2.08 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-14-20            |
| Lab ID:         | 128379-04           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 26.74               |

### Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result (mg/kg) | RL   | Flags |
|---------|----------------|------|-------|
| Lead    | ND             | 7.32 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-15-9             |
| Lab ID:         | 128379-05           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 91.33               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 4.7               | 1.93 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-15-10            |
| Lab ID:         | 128379-06           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 77.33               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 9.68              | 2.27 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-15-12            |
| Lab ID:         | 128379-07           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 83.28               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 1.99 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-15-15            |
| Lab ID:         | 128379-08           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 81.97               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.38 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-15-20            |
| Lab ID:         | 128379-09           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 43.85               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 5.82              | 3.64 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-16-5             |
| Lab ID:         | 128379-10           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 85.4                |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 3.63              | 2.22 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-16-10            |
| Lab ID:         | 128379-11           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 89.4                |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.12 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-16-12            |
| Lab ID:         | 128379-12           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 83.61               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 23.7              | 2.13 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-16-15            |
| Lab ID:         | 128379-13           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 76.92               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 18.8              | 2.28 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-16-20            |
| Lab ID:         | 128379-14           |
| Date Received:  | 6/14/05             |
| Date Prepared:  | 6/15/05             |
| Date Analyzed:  | 6/15/05             |
| Dilution Factor | 1                   |
| % Solids        | 32.98               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 13.8              | 5.98 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DS1497 |
| Date Received:  | -                     |
| Date Prepared:  | 6/15/2005             |
| Date Analyzed:  | 6/15/2005             |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 72.5       |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 25 |       |
| Motor Oil | ND             | 50 |       |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DS1497  
Date Prepared: 6/15/2005  
Date Analyzed: 6/15/2005  
QC Batch ID: DS1497

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|-----|------|
| #2 Diesel     | 1.7                  | 500                  | 452               | 90.1      | 439                | 87.4       | -3  |      |
| Motor Oil     | 0                    | 500                  | 468               | 93.6      | 404                | 80.8       | -15 |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-16-15  
Lab ID: 128379-13  
Date Prepared: 6/15/2005  
Date Analyzed: 6/16/2005  
QC Batch ID: DS1497

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 64.9                  | 61.4                     | 5.5   |      |
| Motor Oil      | 0                     | 0                        | NC    |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-14-15  
Lab ID: 128379-03  
Date Prepared: 6/15/2005  
Date Analyzed: 6/16/2005  
QC Batch ID: DS1497

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 0                     | 0                        | NC    |      |
| Motor Oil      | 0                     | 0                        | NC    |      |

# STL Seattle

|                  |                       |
|------------------|-----------------------|
| Lab ID:          | Method Blank - SP1326 |
| Date Received:   | -                     |
| Date Prepared:   | 6/15/05               |
| Date Analyzed:   | 6/15/05               |
| Dilution Factor: | 1                     |

## Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

| Analyte | Result<br>(mg/kg) | RL | Flags |
|---------|-------------------|----|-------|
| Lead    | ND                | 2  |       |

# STL Seattle

## Matrix Spike Report

Client Sample ID: SB-13-11  
Lab ID: 128378-22  
Date Prepared: 6/15/05  
Date Analyzed: 6/15/05  
QC Batch ID: SP1326

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Spike Amount (mg/kg) | MS Result (mg/kg) | MS % Rec. | Flag |
|----------------|-----------------------|----------------------|-------------------|-----------|------|
| Lead           | 0                     | 109                  | 104               | 96        |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-13-11  
Lab ID: 128378-22  
Date Prepared: 6/15/05  
Date Analyzed: 6/15/05  
QC Batch ID: SP1326

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| Lead           | 0                     | 0                        | NC    |      |



**DATA QUALIFIERS AND ABBREVIATIONS**

- B1:** This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2:** This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1:** Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.
- C2:** Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- C3:** Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be ≤ 30%.
- C4:** Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The original analysis was reported unless anomalies were noted.
- M:** GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D:** The reported result for this analyte was calculated based on a secondary dilution factor.
- E:** The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J:** The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL:** Maximum Contaminant Level
- MDL:** Method Detection Limit
- RL:** Reporting Limit
- N:** See analytical narrative
- ND:** Not Detected
- X1:** Contaminant does not appear to be "typical" product. Elution pattern suggests it may be \_\_\_\_\_.
- X2:** Contaminant does not appear to be "typical" product.
- X3:** Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4:** RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a:** RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5:** Matrix spike recovery was not determined due to the required dilution.
- X6:** Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7:** Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a:** Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8:** Surrogate recovery was not determined due to the required dilution.
- X9:** Surrogate recovery outside advisory QC limits due to matrix interference.

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.stl-inc.com

Chain of  
Custody Record

| Client<br><b>Conoco Phillips 96 Delta Env.</b>   |                | Project Manager<br><b>Eric Larsen / elarsen@deltaenv.com</b>   |         | Date<br><b>6/13/05</b>                            |      | Chain of Custody Number<br><b>12376</b>        |       |      |     |      |  |               |  |
|--|----------------|--|---------|---|------|--|-------|------|-----|------|--|---------------|--|
| Address<br><b>17720 NE 65th St. Suite 201</b>  |                | Telephone Number (Area Code)/Fax Number<br><b>425-558-0334</b> |         | Lab Number<br><b>2</b>                            |      | Page<br><b>2</b> of <b>2</b>                   |       |      |     |      |  |               |  |
| City<br><b>Redmond</b>   |                | State<br><b>WA</b>   |         | Zip Code<br><b>98052</b>                          |      | Special Instructions/<br>Conditions of Receipt |       |      |     |      |  |               |  |
| Project Name and Location (State)<br><b>WA25F-3510-1 / 255353 Seattle</b>                        |                | Site Contact<br><b>Manager Kiffey Tom Coyner</b>               |         | Lab Contact<br><b>Tom Coyner</b>                  |      |  |       |      |     |      |  |               |  |
| Contract/Purchase Order/Quote #.<br><b>WC#: 1396DEL010</b>                                       |                | Carrier/Waybill Number   |         | Analysis (Attach list if<br>more space is needed) |      |  |       |      |     |      |  |               |  |
| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date           | Time   | Matrix  |   |      | Containers & Preservatives                     |       |      |     |      | Special Instructions/<br>Conditions of Receipt |               |  |
|  |                |  | Aqueous | Sed.  | Soil | Unpres.  | H2SO4 | HNO3 | HCl | NaOH |  | ZnAc/<br>NaOH |  |
| <b>SB-16-15</b>  | <b>6/13/05</b> | <b>12:15</b>   |         | <b>X</b>  |      |  |       |      |     |      |  |               |  |
| <b>SB-16-20</b>  | <b>↓</b>       | <b>12:24</b>   |         | <b>X</b>  |      |  |       |      |     |      |  |               |  |
| <b>SP-10-12</b>  | <b>6/13/05</b> | <b>10:30</b>   |         |   |      |  |       |      |     |      |  |               |  |

Cooler  
 Yes  No Cooler Temp: \_\_\_\_\_  
 Turn Around Time Required (business days)  
 24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_

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

Sample Disposal  
 Return To Client  Disposal By Lab  
 Archive For \_\_\_\_\_ Months

QC Requirements (Specify)  
 1. Relinquished By **CP** Date **6-14-05** Time **10:30**  
 2. Relinquished By **CP** Date **6/14/05** Time **12:20**  
 3. Relinquished By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

1. Received By **Joseph Janko** Date **6/14/05** Time **10:30**  
 2. Received By **Joseph Janko** Date **6/14/05** Time **12:20**  
 3. Received By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Comments  
**Please run NWTPH Dx with silice gel clean up.**

128379

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
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**Chain of  
Custody Record**

Client: **Conoco Phillips c/o Delta Env** Address: **17720 NE 65th St. Suite 201 Redmond WA 98052** Project Name and Location (State): **WA 255-3510-1 / 255353 Seattle**

Project Manager: **Eric Larsen / elarsen@deltaenv.com** Telephone Number (Area Code)/Fax Number: **425-558-0134** Site Contact: **Manager: K. Patel Carrier/Waibill Number: Tom Coyner**

Chain of Custody Number: **12369** Date: **6-13-05** Page: **1** of **2**

Special Instructions/Conditions of Receipt:

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date    | Time | Matrix |         |     |      |         |       |      | Containers & Preservatives |      |               |      |  |  |  | Analysis (Attach list if more space is needed) |  |  |  |
|--|---------|------|--------|---------|-----|------|---------|-------|------|----------------------------|------|---------------|------|--|--|--|--|--|--|--|
|  |         |      | Air    | Aqueous | Sed | Soil | Umpres. | H2SO4 | HNO3 | HCl                        | NaOH | ZnAc/<br>NaOH | MeOH |  |  |  |  |  |  |  |
| SB-14-5  | 6/13/05 | 745  |        |         |     | X    |         |       |      |                            |      |               |      |  |  |  | X  |  |  | X NWTPH-EX<br>X BTEX+MTN (8268)<br>X NWTPH-Dx with 15g. dump<br>X Total Lead |
| SB-14-10   |         | 757  |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |
| SB-14-15   |         | 814  |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |
| SB-14-20   |         | 820  |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |
| SB-15-9  |         | 1015 |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |
| SB-15-10   |         | 1022 |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |
| SB-15-12   |         | 1030 |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |
| SB-15-15   |         | 1036 |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |
| SB-15-20   |         | 1050 |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |
| SB-16-5  |         | 1145 |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |
| SB-16-10   |         | 1154 |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |
| SB-16-12   |         | 1200 |        |         |     |      |         |       |      |                            |      |               |      |  |  |  |  |  |  |  |

Disposal By Lab:  Sample Disposal  Return To Client  Archive For \_\_\_\_\_ Months

(A fee may be assessed if samples are retained longer than 1 month)

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

QC Requirements (Specify):

- Received By: *[Signature]* Date: 6/14/05 Time: 10:30
- Received By: *[Signature]* Date: 6/14/05 Time: 12:00
- Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: **Please run NWTPH-Dx with silica gel clean up**

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



**STL**

**STL Sacramento**  
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West Sacramento, CA 95605

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[www.stl-inc.com](http://www.stl-inc.com)

June 23, 2005

**STL SACRAMENTO PROJECT NUMBER: G5F150229**  
**PO/CONTRACT: 128379**

Tom Coyner  
STL Seattle  
5755 8th Street East  
Tacoma, WA 98424

Dear Mr. Coyner,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on June 15, 2005. These samples are associated with your 128379 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4402.

Sincerely,

Jill Kellmann  
Project Manager

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## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F150229

#### General Comments

The samples were received at 4° C. The temperature blank was received frozen at 0° C.

The percent moisture analysis was performed at STL Seattle. Results were provided to STL Sacramento for purposes of dry weight correction.

One vial was received for both the 8260 and TPH-G analysis for most samples. In order to be able to analyze for both tests, where possible, a 1.0ml aliquot of extract was spiked with appropriate surrogate and then appropriate dilutions made.

The analyst observed that some of the sample labels were obscured. It is possible that methanol was lost during the sampling process and came in contact with the label on the outside of the vial.

#### **SOLID, NWTPH-Gx, Northwest TPH**

Sample(s): 1 through 14

The samples were initially intended to be analyzed at STL Seattle. The surrogate trifluorotoluene (TFT) was field spiked into each sample. This surrogate is not used under standard operating procedures at STL Sacramento and, therefore, the instrumentation is not curved appropriately to quantitate results using surrogate TFT. For the NWTPH-Gas analysis, TFT was identified and subtracted from the area of quantitation. 4-Bromofluorobenzene (BFB) was spiked at analysis and is the reported surrogate.

Sample(s): 2, 7, 12, 13

Samples 2 (100X), 7 (20X), 12 (100X), and 13 (50X) required dilutions respectively due to high analyte levels. Reporting limits have been adjusted accordingly and samples have been appropriately flagged with a "Q" qualifier.

#### **SOLID, 8260B, BTEX/MTBE/Naphthalene**

Sample(s): 2, 7, 12, 13

Samples 2 (50X), 7 (5X), 12 (200X), and 13 (50X) required dilutions respectively due to high analyte levels. Reporting limits have been adjusted accordingly and samples have been appropriately flagged with a "Q" qualifier.

**CASE NARRATIVE**

**STL SACRAMENTO PROJECT NUMBER G5F150229**

**SOLID, NWTPH-G and 8260B, BTEX/MTBE/Naphthalene**

Sample(s): 1 through 14

Insufficient volume was available for a matrix spike/matrix spike duplicate (MS/MSD). A laboratory control sample/duplicate control sample (LCS/DCS) was prepared instead.

There were no other anomalies associated with this project.

## STL Sacramento Certifications/Accreditations

| Certifying State | Certificate # | Certifying State   | Certificate # |
|------------------|---------------|--------------------|---------------|
| Alaska           | UST-055       | Oregon*            | CA 200005     |
| Arizona          | AZ0616        | Pennsylvania       | 68-1272       |
| Arkansas         | 04-067-0      | South Carolina     | 87014002      |
| California       | 01119CA       | Texas              | TX-270-2004A  |
| Colorado         | NA            | Utah*              | QUANI         |
| Connecticut      | PH-0691       | Virginia           | 00178         |
| Florida*         | E87570        | Washington         | C087          |
| Georgia          | 960           | West Virginia      | 9930C-334     |
| Hawaii           | NA            | Wisconsin          | 998204680     |
| Louisiana        | 01944         | NFESC              | NA            |
| Michigan         | 9947          | USACE              | NA            |
| Nevada           | CA44          | USDA Foreign Plant | 37-82605      |
| New Jersey*      | CA005         | USDA Foreign Soil  | S-46613       |
| New York*        | 11666         |                    |               |

\*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

## QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.



## Sample Summary G5F150229

| <u>WO#</u> | <u>Sample #</u> | <u>Client Sample ID</u> | <u>Sampling Date</u> | <u>Received Date</u> |
|------------|-----------------|-------------------------|----------------------|----------------------|
| HDMJ9      | 1               | SB-14-5                 | 6/13/2005 07:45 AM   | 6/15/2005 09:20 AM   |
| HDMKC      | 2               | SB-14-10                | 6/13/2005 07:57 AM   | 6/15/2005 09:20 AM   |
| HDMKE      | 3               | SB-14-15                | 6/13/2005 08:14 AM   | 6/15/2005 09:20 AM   |
| HDMKF      | 4               | SB-14-20                | 6/13/2005 08:20 AM   | 6/15/2005 09:20 AM   |
| HDMKK      | 5               | SB-15-9                 | 6/13/2005 10:15 AM   | 6/15/2005 09:20 AM   |
| HDMKN      | 6               | SB-15-10                | 6/13/2005 10:22 AM   | 6/15/2005 09:20 AM   |
| HDMKQ      | 7               | SB-15-12                | 6/13/2005 10:30 AM   | 6/15/2005 09:20 AM   |
| HDMKR      | 8               | SB-15-15                | 6/13/2005 10:36 AM   | 6/15/2005 09:20 AM   |
| HDMKX      | 9               | SB-15-20                | 6/13/2005 10:50 AM   | 6/15/2005 09:20 AM   |
| HDMLN      | 10              | SB-16-5                 | 6/13/2005 11:45 AM   | 6/15/2005 09:20 AM   |
| HDMLQ      | 11              | SB-16-10                | 6/13/2005 11:54 AM   | 6/15/2005 09:20 AM   |
| HDMLW      | 12              | SB-16-12                | 6/13/2005 12:00 PM   | 6/15/2005 09:20 AM   |
| HDML0      | 13              | SB-16-15                | 6/13/2005 12:15 PM   | 6/15/2005 09:20 AM   |
| HDML3      | 14              | SB-16-20                | 6/13/2005 12:24 PM   | 6/15/2005 09:20 AM   |

**Notes(s):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

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Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.stl-inc.com

**Chain of  
Custody Record**

Client: **STL-SEA** Project Manager: **Tom Coyner** Chain of Custody Number: \_\_\_\_\_  
 Address: \_\_\_\_\_ Date: **6/14/15** Page: **1** of **2**  
 Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Lab Number: \_\_\_\_\_

| Project Name and Location (State)  | City    | State | Zip Code | Site Contact | Lab Contact | Carrier/Waybill Number | Matrix |     |     | Containers & Preservatives |        |       |      |     | Analysis (Attach list if more space is needed) | Special Instructions/<br>Conditions of Receipt |
|--|---------|-------|----------|--------------|-------------|------------------------|--------|-----|-----|----------------------------|--------|-------|------|-----|--|--|
|  |         |       |          |              |             |                        | Aq     | Sol | Sed | Soil                       | Layers | H2SO4 | HNO3 | HCl |  |  |
| Delta ENV.<br>Contract/Purchase Order/Quote No. 128379   |         |       |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date    | Time  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-14-5  | 6/13/15 | 0745  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-14-10   |         | 0757  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-14-15   |         | 0814  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-14-20   |         | 0820  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-15-9  |         | 1015  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-15-10   |         | 1027  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-15-12   |         | 1030  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-15-15   |         | 1036  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-15-20   |         | 1050  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-16-5  |         | 1145  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-16-10   |         | 1154  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |
| SB-16-12   |         | 1200  |          |              |             |                        |        |     |     |                            |        |       |      |     |  |  |

Possible Hazard Identification  
 Yes  No  Cooler Temp. \_\_\_\_\_  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Disposal By Lab  Archive For \_\_\_\_\_  
 Return To Client  Months \_\_\_\_\_

QC Requirements (Specify)  
 Sample Disposal  Return To Client  Months \_\_\_\_\_

Turn Around Time Required (business days)  
 24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_

1. Relinquished By: \_\_\_\_\_ Date: **6/14/15** Time: **1615**  
 2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

1. Received By: \_\_\_\_\_ Date: **6-15-05** Time: **1000**  
 2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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Chain of  
Custody Record

Client: **STL-SEA** Project Manager: **Tom Coyner** Chain of Custody Number: **2 of 3**  
 Address: **STL-SEA** Telephone Number (Area Code)/Fax Number: **614/5**  
 City: **SEA** State: **WA** Zip Code: **98101** Lab Contact: **Tom Coyner**  
 Project Name and Location (State): **Delta Env.** Lab Contact: **Tom Coyner**  
 Contract/Purchase Order/Quote No.: **128379** Carrier/Waybill Number: **128379**

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date           | Time        | Matrix |     |     |         |     | Containers & Preservatives |       |      |     |      | Analysis (Attach list if more space is needed) | Special Instructions/<br>Conditions of Receipt |               |      |  |
|--|----------------|-------------|--------|-----|-----|---------|-----|----------------------------|-------|------|-----|------|--|--|---------------|------|--|
|  |                |             | Aq     | Sol | Sol | Agonous | Sol | Unpres.                    | H2SO4 | HNO3 | HCl | NaOH |  |  | ZnAc/<br>NaOH | META |  |
| <b>SB-16-15</b>  | <b>6/13/15</b> | <b>1215</b> |        |     |     |         |     |                            |       |      |     |      |  |  |               |      |  |
| <b>SB-16-20</b>  | <b>6/13/15</b> | <b>1224</b> |        |     |     |         |     |                            |       |      |     |      |  |  |               |      |  |
|  |                |             |        |     |     |         |     |                            |       |      |     |      |  |  |               |      |  |
|  |                |             |        |     |     |         |     |                            |       |      |     |      |  |  |               |      |  |
|  |                |             |        |     |     |         |     |                            |       |      |     |      |  |  |               |      |  |
|  |                |             |        |     |     |         |     |                            |       |      |     |      |  |  |               |      |  |
|  |                |             |        |     |     |         |     |                            |       |      |     |      |  |  |               |      |  |
|  |                |             |        |     |     |         |     |                            |       |      |     |      |  |  |               |      |  |
|  |                |             |        |     |     |         |     |                            |       |      |     |      |  |  |               |      |  |
|  |                |             |        |     |     |         |     |                            |       |      |     |      |  |  |               |      |  |

QC Requirements (Specify):  
 1. Received By: **atyl** Date: **6-15-15** Time: **1000**  
 2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments:



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL - Seattle PM JK LOG # 309028

LOT# (QUANTIMS ID) G5F150229 QUOTE# 65022 LOCATION VD

DATE RECEIVED 6-15-05 TIME RECEIVED 920

Initials JK Date 6-15-05

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS
  - N/A

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER \_\_\_\_\_

COC #(S) 15380 15379

TEMPERATURE BLANK Observed: N/A Corrected: 0

SAMPLE TEMPERATURE  
Observed: 3 4 5 Average: 4 Corrected Average: 4

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

- WETCHEM  N/A
- VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: temp blank frozen

# SOLID, NWTPH-Gx

STL SEATTLE

Client Sample ID: SB-14-5

GC Volatiles

Lot-Sample #...: G5F150229-001    Work Order #...: HDMJ91AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5173271  
Dilution Factor: 1  
% Moisture.....: 26    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> |                 |
|----------------------|-----------------|------------------|-----------------|
|                      |                 | <u>LIMIT</u>     | <u>UNITS</u>    |
| TPH (as Gasoline)    | ND              | 6800             | ug/kg           |
|                      |                 | <u>PERCENT</u>   | <u>RECOVERY</u> |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>    |                 |
| 4-Bromofluorobenzene | 95              | (39 - 171)       |                 |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-14-10

GC Volatiles

Lot-Sample #....: G5F150229-002    Work Order #....: HDMKC1AD    Matrix.....: SOLID  
 Date Sampled...: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/22/05  
 Prep Batch #....: 5173271  
 Dilution Factor: 100  
 % Moisture.....: 14    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|----------------------|-------------------------|------------------------|--------------|
| TPH (as Gasoline)    | 7900000 Q               | 580000                 | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                 | (39 - 171)             |              |

**NOTE(S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-14-15

GC Volatiles

Lot-Sample #...: G5F150229-003    Work Order #...: HDMKE1AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/21/05  
Prep Batch #...: S173271  
Dilution Factor: 1  
\* Moisture.....: 20    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|------------------------|--------------|
| TPH (as Gasoline)    | 31000           | 6200                   | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>        |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>          |              |
| 4-Bromofluorobenzene | 104             | (39 - 171)             |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-14-20

GC Volatiles

Lot-Sample #...: G5F150229-004    Work Order #...: HDMKF1AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5173271  
Dilution Factor: 1  
% Moisture.....: 73    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 54000           | 19000                            | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>                  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| 4-Bromofluorobenzene | 112             | (39 - 171)                       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-15-9

GC Volatiles

Lot-Sample #...: G5F150229-005    Work Order #...: HDMKK1AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5173271  
Dilution Factor: 1  
% Moisture.....: 8.7    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|----------------------|-------------------------|------------------------|--------------|
| TPH (as Gasoline)    | ND                      | 5500                   | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |              |
| 4-Bromofluorobenzene | 96                      | (39 - 171)             |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-15-10

GC Volatiles

Lot-Sample #...: G5F150229-006    Work Order #...: HDMKN1AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5173271  
Dilution Factor: 1  
% Moisture.....: 23    Method.....: NWTPE NWTPE-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|----------------------|-------------------------|------------------------|--------------|
| TPH (as Gasoline)    | ND                      | 6500                   | ug/kg        |
|                      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |              |
| <u>SURROGATE</u>     |                         |                        |              |
| 4-Bromofluorobenzene | 98                      | (39 - 171)             |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-15-12

GC Volatiles

Lot-Sample #...: G5F150229-007    Work Order #...: HDMKQ1AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173271  
Dilution Factor: 20  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 680000 Q                          | 120000                           | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                           | (39 - 171)                       |              |

**NOTE (S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-15-15

GC Volatiles

Lot-Sample #...: G5F150229-008    Work Order #...: HDMKR1AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5173271  
Dilution Factor: 1  
% Moisture.....: 18    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> |              |
|----------------------|-----------------|------------------|--------------|
|                      |                 | <u>LIMIT</u>     | <u>UNITS</u> |
| TPH (as Gasoline)    | ND              | 6100             | ug/kg        |
|                      |                 | <u>RECOVERY</u>  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>    |              |
| 4-Bromofluorobenzene | 98              | (39 - 171)       |              |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-15-20

GC Volatiles

Lot-Sample #...: G5F150229-009    Work Order #...: HDMKX1AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5173271  
Dilution Factor: 1  
% Moisture.....: 56    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>  | <u>REPORTING</u> |              |
|----------------------|----------------|------------------|--------------|
|                      |                | <u>LIMIT</u>     | <u>UNITS</u> |
| TPH (as Gasoline)    | ND             | 11000            | ug/kg        |
|                      |                | <u>RECOVERY</u>  |              |
| <u>SURROGATE</u>     | <u>PERCENT</u> | <u>LIMITS</u>    |              |
| 4-Bromofluorobenzene | 96             | (39 - 171)       |              |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-16-5

GC Volatiles

Lot-Sample #...: G5F150229-010    Work Order #...: HDMLN1AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5173271  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>                         | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|--|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)                        | 7600                        | 5900                       | ug/kg        |
|  | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| <u>SURROGATE</u><br>4-Bromofluorobenzene | 96                          | (39 - 171)                 |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-16-10

GC Volatiles

Lot-Sample #...: G5F150229-011    Work Order #...: HDMLQ1AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/22/05  
Prep Batch #...: S173271  
Dilution Factor: 1  
% Moisture.....: 11    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | ND            | 5600                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 96                          | (39 - 171)                 |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-16-12

GC Volatiles

Lot-Sample #....: G5F150229-012    Work Order #....: HDMLW1AD    Matrix.....: SOLID  
Date Sampled....: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/22/05  
Prep Batch #....: 5173271  
Dilution Factor: 100  
% Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 8700000 Q                         | 600000                           | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                           | (39 - 171)                       |              |

**NOTE(S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-16-15

GC Volatiles

Lot-Sample #...: G5F150229-013    Work Order #...: HDML01AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173271  
Dilution Factor: 50  
% Moisture.....: 23    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | 3500000 Q                         | 330000                           | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                           | (39 - 171)                       |              |

**NOTE (S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
Results and reporting limits have been adjusted for dry weight.  
Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-16-20

GC Volatiles

Lot-Sample #...: G5F150229-014    Work Order #...: HDML31AD    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173271  
Dilution Factor: 1  
% Moisture.....: 67    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 15000                            | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 95                                | (39 - 171)                       |              |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F150229

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 002            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 003            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 004            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 005            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 006            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 007            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 008            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 009            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 010            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 011            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F150229

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 012            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 013            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 014            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G5F150229      Work Order #...: HD5HX1AA      Matrix.....: SOLID  
MB Lot-Sample #: G5F220000-271  
Prep Date.....: 06/16/05  
Analysis Date...: 06/21/05      Prep Batch #...: 5173271  
Dilution Factor: 1

| <u>PARAMETER</u>                         | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>  |
|--|-----------------------------|----------------------------|--------------|----------------|
| TPH (as Gasoline)                        | ND                          | 5000                       | ug/kg        | NWTPH NWTPH-Gx |
|  | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |                |
| <u>SURROGATE</u><br>4-Bromofluorobenzene | 87                          | (39 - 171)                 |              |                |

**NOTE(S) :**

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: G5F150229      Work Order #...: HD5HX1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F220000-271      HD5HX1AD-LCSD  
 Prep Date.....: 06/16/05      Analysis Date...: 06/21/05  
 Prep Batch #...: 5173271  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u>  |
|-------------------|-------------------------|------------------------|------------|-------------------|----------------|
| TPH (as Gasoline) | 97                      | (73 - 136)             |            |                   | NWTPH NWTPH-Gx |
|                   | 100                     | (73 - 136)             | 3.1        | (0-21)            | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 92                      | (39 - 171)             |
|                      | 94                      | (39 - 171)             |

**NOTE (S) :**

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: G5F150229      Work Order #...: HD5HX1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F220000-271      HD5HX1AD-LCSD  
 Prep Date.....: 06/16/05      Analysis Date...: 06/21/05  
 Prep Batch #...: 5173271  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>  |
|-------------------|---------------------|------------------------|--------------|-------------------------|------------|----------------|
| TPH (as Gasoline) | 50000               | 48300                  | ug/kg        | 97                      |            | NWTPH NWTPH-Gx |
|                   | 50000               | 49800                  | ug/kg        | 100                     | 3.1        | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 92                      | (39 - 171)             |
|                      | 94                      | (39 - 171)             |

**NOTE(S) :**

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

Bold print denotes control parameters



# SOLID, 8260B, BTEX/MTBE/Naphthalene

STL SEATTLE

Client Sample ID: SB-14-5

GC/MS Volatiles

Lot-Sample #....: G5F150229-001    Work Order #....: HDMJ91AC    Matrix.....: SOLID  
 Date Sampled....: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/16/05  
 Prep Batch #....: 5171349  
 Dilution Factor: 0.99  
 % Moisture.....: 26    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | 98 J          | 340                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 670                        | ug/kg        |
| Benzene                           | ND            | 40                         | ug/kg        |
| Toluene                           | ND            | 340                        | ug/kg        |
| Ethylbenzene                      | ND            | 340                        | ug/kg        |
| Naphthalene                       | ND            | 340                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 106                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 105                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 109                         | (43 - 147)                 |
| Toluene-d8            | 113                         | (47 - 145)                 |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-14-10

GC/MS Volatiles

Lot-Sample #....: G5F150229-002    Work Order #....: HDMKC1AC    Matrix.....: SOLID  
 Date Sampled...: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/17/05  
 Prep Batch #....: 5171349  
 Dilution Factor: 39.6  
 % Moisture.....: 14    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING |       |
|-----------------------------------|----------|-----------|-------|
|                                   |          | LIMIT     | UNITS |
| Xylenes (total)                   | 330000 Q | 12000     | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 23000     | ug/kg |
| Benzene                           | ND       | 1400      | ug/kg |
| Toluene                           | ND       | 12000     | ug/kg |
| Ethylbenzene                      | 110000   | 12000     | ug/kg |
| Naphthalene                       | 52000    | 12000     | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 0.0 SRD  | (44 - 142) |
| 4-Bromofluorobenzene  | 0.0 SRD  | (41 - 152) |
| 1,2-Dichloroethane-d4 | 0.0 SRD  | (43 - 147) |
| Toluene-d8            | 0.0 SRD  | (47 - 145) |

**NOTE(S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-14-15

GC/MS Volatiles

Lot-Sample #....: G5F150229-003    Work Order #....: HDMKE1AC    Matrix.....: SOLID  
 Date Sampled....: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/22/05  
 Prep Batch #....: 5171349  
 Dilution Factor: 0.92  
 % Moisture.....: 20    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | 1100   | 290                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 570                | ug/kg |
| Benzene                           | ND     | 34                 | ug/kg |
| Toluene                           | ND     | 290                | ug/kg |
| Ethylbenzene                      | 370    | 290                | ug/kg |
| Naphthalene                       | 190 J  | 290                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 99                  | (44 - 142)         |
| 4-Bromofluorobenzene  | 107                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 99                  | (43 - 147)         |
| Toluene-d8            | 111                 | (47 - 145)         |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-14-20

GC/MS Volatiles

Lot-Sample #....: G5F150229-004    Work Order #....: HDMKF1AC    Matrix.....: SOLID  
 Date Sampled....: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/16/05  
 Prep Batch #....: 5171349  
 Dilution Factor: 1.36  
 % Moisture.....: 73    Method.....: SW846 8260B

| PARAMETER                         | RESULT      | REPORTING   |              |
|-----------------------------------|-------------|-------------|--------------|
|                                   |             | LIMIT       | UNITS        |
| <b>Xylenes (total)</b>            | <b>1500</b> | <b>1300</b> | <b>ug/kg</b> |
| Methyl tert-butyl ether<br>(MTBE) | ND          | 2500        | ug/kg        |
| Benzene                           | ND          | 150         | ug/kg        |
| Toluene                           | ND          | 1300        | ug/kg        |
| Ethylbenzene                      | 450 J       | 1300        | ug/kg        |
| Naphthalene                       | 1200 J      | 1300        | ug/kg        |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 103      | (44 - 142) |
| 4-Bromofluorobenzene  | 107      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 100      | (43 - 147) |
| Toluene-d8            | 112      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-15-9

GC/MS Volatiles

Lot-Sample #...: G5F150229-005    Work Order #...: HDMKK1AC    Matrix.....: SOLID  
 Date Sampled...: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5171349  
 Dilution Factor: 0.95  
 ‡ Moisture.....: 8.7    Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |              |
|-----------------------------------|-----------------|---------------|--------------|
|                                   |                 | LIMIT         | UNITS        |
| <b>Xylenes (total)</b>            | <b>82 J</b>     | <b>260</b>    | <b>ug/kg</b> |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 520           | ug/kg        |
| Benzene                           | ND              | 31            | ug/kg        |
| Toluene                           | ND              | 260           | ug/kg        |
| Ethylbenzene                      | ND              | 260           | ug/kg        |
| Naphthalene                       | <b>74 J</b>     | <b>260</b>    | <b>ug/kg</b> |
|                                   | PERCENT         | RECOVERY      |              |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |              |
| Dibromofluoromethane              | 102             | (44 - 142)    |              |
| 4-Bromofluorobenzene              | 106             | (41 - 152)    |              |
| 1,2-Dichloroethane-d4             | 99              | (43 - 147)    |              |
| Toluene-d8                        | 113             | (47 - 145)    |              |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-15-10

GC/MS Volatiles

Lot-Sample #...: G5F150229-006    Work Order #...: HDMKN1AC    Matrix.....: SOLID  
 Date Sampled...: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5171349  
 Dilution Factor: 0.96  
 % Moisture.....: 23    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | ND     | 310                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 620                | ug/kg |
| Benzene                           | ND     | 37                 | ug/kg |
| Toluene                           | ND     | 310                | ug/kg |
| Ethylbenzene                      | ND     | 310                | ug/kg |
| Naphthalene                       | ND     | 310                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 106                 | (44 - 142)         |
| 4-Bromofluorobenzene  | 112                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 107                 | (43 - 147)         |
| Toluene-d8            | 116                 | (47 - 145)         |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-15-12

GC/MS Volatiles

Lot-Sample #...: G5F150229-007    Work Order #...: HDMKQ1AC    Matrix.....: SOLID  
 Date Sampled...: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/22/05  
 Prep Batch #...: 5171349  
 Dilution Factor: 4.06  
 % Moisture.....: 17    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 3700 Q | 1200      | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 2400      | ug/kg |
| Benzene                           | 500    | 150       | ug/kg |
| Toluene                           | 400 J  | 1200      | ug/kg |
| Ethylbenzene                      | 4400   | 1200      | ug/kg |
| Naphthalene                       | 18000  | 1200      | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 88       | (44 - 142) |
| 4-Bromofluorobenzene  | 105      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 89       | (43 - 147) |
| Toluene-d8            | 107      | (47 - 145) |

**NOTE (S) :**

- Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.  
 J Estimated result. Result is less than RL.



STL SEATTLE

Client Sample ID: SB-15-15

GC/MS Volatiles

Lot-Sample #...: G5F150229-008    Work Order #...: HDMKR1AC    Matrix.....: SOLID  
 Date Sampled...: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5171349  
 Dilution Factor: 0.74  
 % Moisture.....: 18    Method.....: SW846 8260B

| PARAMETER                         | RESULT     | REPORTING<br>LIMIT | UNITS        |
|-----------------------------------|------------|--------------------|--------------|
| Xylenes (total)                   | ND         | 230                | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND         | 450                | ug/kg        |
| <b>Benzene</b>                    | <b>200</b> | <b>27</b>          | <b>ug/kg</b> |
| Toluene                           | ND         | 230                | ug/kg        |
| Ethylbenzene                      | ND         | 230                | ug/kg        |
| Naphthalene                       | 560        | 230                | ug/kg        |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 103                 | (44 - 142)         |
| 4-Bromofluorobenzene  | 108                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 100                 | (43 - 147)         |
| Toluene-d8            | 113                 | (47 - 145)         |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-15-20

GC/MS Volatiles

Lot-Sample #...: G5F150229-009    Work Order #...: HDMKX1AC    Matrix.....: SOLID  
 Date Sampled...: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5171349  
 Dilution Factor: 1.66  
 % Moisture.....: 56    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | ND     | 950                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 1900               | ug/kg |
| Benzene                           | ND     | 110                | ug/kg |
| Toluene                           | ND     | 950                | ug/kg |
| Ethylbenzene                      | ND     | 950                | ug/kg |
| Naphthalene                       | ND     | 950                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 103                 | (44 - 142)         |
| 4-Bromofluorobenzene  | 108                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 98                  | (43 - 147)         |
| Toluene-d8            | 112                 | (47 - 145)         |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-16-5

GC/MS Volatiles

Lot-Sample #....: G5F150229-010    Work Order #....: HDMLN1AC    Matrix.....: SOLID  
 Date Sampled....: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/16/05  
 Prep Batch #....: 5171349  
 Dilution Factor: 1.3  
 % Moisture.....: 15    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 380       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 760       | ug/kg |
| Benzene                           | ND     | 46        | ug/kg |
| Toluene                           | ND     | 380       | ug/kg |
| Ethylbenzene                      | ND     | 380       | ug/kg |
| Naphthalene                       | ND     | 380       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 104      | (44 - 142) |
| 4-Bromofluorobenzene  | 111      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 103      | (43 - 147) |
| Toluene-d8            | 114      | (47 - 145) |

**NOTE (S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-16-10

GC/MS Volatiles

Lot-Sample #...: G5F150229-011    Work Order #...: HDMLQ1AC    Matrix.....: SOLID  
 Date Sampled...: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/16/05  
 Prep Batch #...: 5171349  
 Dilution Factor: 0.96  
 % Moisture.....: 11    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 270       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 540       | ug/kg |
| Benzene                           | ND     | 32        | ug/kg |
| Toluene                           | ND     | 270       | ug/kg |
| Ethylbenzene                      | ND     | 270       | ug/kg |
| Naphthalene                       | ND     | 270       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 110      | (44 - 142) |
| 4-Bromofluorobenzene  | 115      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 106      | (43 - 147) |
| Toluene-d8            | 119      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-16-12

GC/MS Volatiles

Lot-Sample #...: G5F150229-012    Work Order #...: HDMLW1AC    Matrix.....: SOLID  
 Date Sampled...: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/22/05  
 Prep Batch #...: 5171349  
 Dilution Factor: 174.4  
 % Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                      | RESULT   | REPORTING LIMIT | UNITS |
|--------------------------------|----------|-----------------|-------|
| Xylenes (total)                | 500000 Q | 52000           | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND       | 100000          | ug/kg |
| Benzene                        | ND       | 6300            | ug/kg |
| Toluene                        | 110000   | 52000           | ug/kg |
| Ethylbenzene                   | 87000    | 52000           | ug/kg |
| Naphthalene                    | 54000    | 52000           | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 0.0 SRD          | (44 - 142)      |
| 4-Bromofluorobenzene  | 0.0 SRD          | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 0.0 SRD          | (43 - 147)      |
| Toluene-d8            | 0.0 SRD          | (47 - 145)      |

**NOTE(S):**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery. Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-16-15

GC/MS Volatiles

Lot-Sample #...: G5F150229-013    Work Order #...: HDML01AC    Matrix.....: SOLID  
 Date Sampled...: 06/13/05    Date Received...: 06/15/05  
 Prep Date.....: 06/16/05    Analysis Date...: 06/17/05  
 Prep Batch #...: 5171349  
 Dilution Factor: 45.2  
 % Moisture.....: 23    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|----------|--------------------|-------|
| Xylenes (total)                   | 300000 Q | 15000              | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 29000              | ug/kg |
| Benzene                           | 18000    | 1800               | ug/kg |
| Toluene                           | 100000   | 15000              | ug/kg |
| Ethylbenzene                      | 61000    | 15000              | ug/kg |
| Naphthalene                       | 23000    | 15000              | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 0.0 SRD             | (44 - 142)         |
| 4-Bromofluorobenzene  | 0.0 SRD             | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 0.0 SRD             | (43 - 147)         |
| Toluene-d8            | 0.0 SRD             | (47 - 145)         |

**NOTE(S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: SB-16-20

GC/MS Volatiles

Lot-Sample #...: G5F150229-014    Work Order #...: HDML31AC    Matrix.....: SOLID  
Date Sampled...: 06/13/05    Date Received...: 06/15/05  
Prep Date.....: 06/16/05    Analysis Date...: 06/17/05  
Prep Batch #...: 5171349  
Dilution Factor: 1.76  
% Moisture.....: 67    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | ND            | 1300                       | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 2700                       | ug/kg        |
| Benzene                           | ND            | 160                        | ug/kg        |
| Toluene                           | ND            | 1300                       | ug/kg        |
| Ethylbenzene                      | ND            | 1300                       | ug/kg        |
| Naphthalene                       | ND            | 1300                       | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 95                          | (44 - 142)                 |
| 4-Bromofluorobenzene  | 98                          | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 98                          | (43 - 147)                 |
| Toluene-d8            | 102                         | (47 - 145)                 |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F150229

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 002            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 003            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 004            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 005            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 006            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 007            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 008            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 009            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 010            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 011            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |

(Continued on next page)



# QC DATA ASSOCIATION SUMMARY

G5F150229

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 012            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 013            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |
| 014            | SOLID         | ASTM D 2216-90               |                          | 5171627                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171349                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173271                 |                |

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G5F150229  
 MB Lot-Sample #: G5F200000-349

Work Order #...: HD06K1AA

Matrix.....: SOLID

Analysis Date...: 06/16/05  
 Dilution Factor: 1

Prep Date.....: 06/16/05  
 Prep Batch #...: 5171349

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|-----------------------------------|---------------|----------------------------|--------------|---------------|
| Xylenes (total)                   | ND            | 250                        | ug/kg        | SW846 8260B   |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 500                        | ug/kg        | SW846 8260B   |
| Benzene                           | ND            | 30                         | ug/kg        | SW846 8260B   |
| Toluene                           | ND            | 250                        | ug/kg        | SW846 8260B   |
| Ethylbenzene                      | ND            | 250                        | ug/kg        | SW846 8260B   |
| Naphthalene                       | ND            | 250                        | ug/kg        | SW846 8260B   |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 101                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 102                         | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 100                         | (43 - 147)                 |
| Toluene-d8            | 109                         | (47 - 145)                 |

**NOTE(S) :**

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



# STL

STL Seattle  
5755 8<sup>th</sup> Street East  
Tacoma, WA 98424

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[www.stl-inc.com](http://www.stl-inc.com)

## TRANSMITTAL MEMORANDUM

DATE: June 24, 2005

TO: Eric Larsen  
Delta Environmental  
17720 NE 65th Street Ste 201  
Redmond, WA 98052

PROJECT: WA255-3510-1 / 255 353 Seattle

REPORT NUMBER: 128402

TOTAL NUMBER OF PAGES: \_\_\_\_\_

Enclosed are the test results for twenty-five samples received at STL Seattle on June 15, 2005. NWTPH-Gx and volatile organics analysis was performed at STL Sacramento.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,



Tom Coyner  
Project Manager

---

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# STL Seattle

## Sample Identification:

| <u>Lab. No.</u> | <u>Client ID</u> | <u>Date/Time Sampled</u> | <u>Matrix</u> |
|-----------------|------------------|--------------------------|---------------|
| 128402-1        | SB-17-5          | 06-14-05 07:40           | solid         |
| 128402-2        | SB-17-9.5        | 06-14-05 07:55           | solid         |
| 128402-3        | SB-17-11         | 06-14-05 08:00           | solid         |
| 128402-4        | SB-17-18.5       | 06-14-05 08:20           | solid         |
| 128402-5        | SB-17-20         | 06-14-05 08:30           | solid         |
| 128402-6        | SB-18-5          | 06-14-05 09:20           | solid         |
| 128402-7        | SB-18-9.5        | 06-14-05 09:32           | solid         |
| 128402-8        | SB-18-11         | 06-14-05 09:35           | solid         |
| 128402-9        | SB-18-12.5       | 06-14-05 09:40           | solid         |
| 128402-10       | SB-18-20         | 06-14-05 10:00           | solid         |
| 128402-11       | MW-60-5          | 06-14-05 11:20           | solid         |
| 128402-12       | MW-60-9.5        | 06-14-05 11:30           | solid         |
| 128402-13       | MW-60-11         | 06-14-05 11:35           | solid         |
| 128402-14       | MW-60-12.5       | 06-14-05 11:40           | solid         |
| 128402-15       | MW-60-14         | 06-14-05 11:50           | solid         |
| 128402-16       | MW-60-15.5       | 06-14-05 11:55           | solid         |
| 128402-17       | MW-60-20         | 06-14-05 12:10           | solid         |
| 128402-18       | MW-59-5          | 06-14-05 15:30           | solid         |
| 128402-19       | MW-59-9.5        | 06-14-05 15:40           | solid         |
| 128402-20       | MW-59-11         | 06-14-05 15:45           | solid         |
| 128402-21       | MW-59-12.5       | 06-14-05 15:50           | solid         |
| 128402-22       | MW-59-14         | 06-14-05 16:00           | solid         |
| 128402-23       | MW-59-15.5       | 06-14-05 16:10           | solid         |
| 128402-24       | MW-59-17         | 06-14-05 16:15           | solid         |
| 128402-25       | MW-59-20         | 06-14-05 16:20           | solid         |

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# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-17-5             |
| Lab ID:         | 128402-01           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 87.48               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 69.4       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.7 |       |
| Motor Oil | ND             | 53.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-17-9.5           |
| Lab ID:         | 128402-02           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 87.19               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 60.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.5 |       |
| Motor Oil | ND             | 57   |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-17-11            |
| Lab ID:         | 128402-03           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 77.42               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 64.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 31.6 |       |
| Motor Oil | ND             | 63.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-17-18.5          |
| Lab ID:         | 128402-04           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 61.01               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 44.7       | X9    | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 437            | 38.1 | X2    |
| Motor Oil | 925            | 76.1 | X2    |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-17-20            |
| Lab ID:         | 128402-05           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 70.39               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 52.1       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 156            | 33.4 | X2    |
| Motor Oil | 287            | 66.8 | X2    |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-18-5             |
| Lab ID:         | 128402-06           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 86.82               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 74.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.9 |       |
| Motor Oil | ND             | 53.8 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-18-9.5           |
| Lab ID:         | 128402-07           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 87.92               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 72.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 24.4 |       |
| Motor Oil | ND             | 48.8 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-18-11            |
| Lab ID:         | 128402-08           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 81.53               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 71.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.7 |       |
| Motor Oil | ND             | 57.3 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-18-12.5          |
| Lab ID:         | 128402-09           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 79.59               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 72.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.4 |       |
| Motor Oil | ND             | 56.9 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SB-18-20            |
| Lab ID:         | 128402-10           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 79.33               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 68.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 29.3 |       |
| Motor Oil | ND             | 58.6 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-60-5             |
| Lab ID:         | 128402-11           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 86.54               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 64.5       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 26.2 |       |
| Motor Oil | ND             | 52.4 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-60-9.5           |
| Lab ID:         | 128402-12           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 86.83               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 51.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 28.5 |       |
| Motor Oil | ND             | 57   |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-60-11            |
| Lab ID:         | 128402-13           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 84.68               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 72.7       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.3 |       |
| Motor Oil | ND             | 54.6 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-60-12.5          |
| Lab ID:         | 128402-14           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 84.2                |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 74.3       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 570            | 28.8 | X1    |
| Motor Oil | 85.5           | 57.7 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-60-14            |
| Lab ID:         | 128402-15           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 82.36               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 77.6       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 2080           | 30.1 | X1    |
| Motor Oil | 362            | 60.1 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-60-15.5          |
| Lab ID:         | 128402-16           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 83.05               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 71.6       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 192            | 27.9 | X1    |
| Motor Oil | 999            | 55.7 |       |

X1 - Chromatogram suggests this might be overlap from motor oil range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-60-20            |
| Lab ID:         | 128402-17           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 26.74               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 49         | X9    | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL  | Flags |
|-----------|----------------|-----|-------|
| #2 Diesel | 439            | 89  | X1    |
| Motor Oil | 862            | 178 |       |

X1 - Chromatogram suggests this might be overlap from motor oil range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-59-5             |
| Lab ID:         | 128402-18           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 82.93               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 53.9       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 29 |       |
| Motor Oil | ND             | 58 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-59-9.5           |
| Lab ID:         | 128402-19           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/16/2005           |
| % Solids        | 52.88               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 47.8       | X9    | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 44.2 |       |
| Motor Oil | ND             | 88.4 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-59-11            |
| Lab ID:         | 128402-20           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/17/2005           |
| % Solids        | 82.36               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 68.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 27.8 |       |
| Motor Oil | ND             | 55.7 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-59-12.5          |
| Lab ID:         | 128402-21           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/17/2005           |
| % Solids        | 79.04               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 66.2       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 53.6           | 31.3 | X1    |
| Motor Oil | 129            | 62.6 |       |

X1 - Chromatogram suggests this might be overlap from motor oil range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-59-14            |
| Lab ID:         | 128402-22           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/17/2005           |
| % Solids        | 79.01               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 64.8       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 55.6           | 29.9 | X1    |
| Motor Oil | ND             | 59.7 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-59-15.5          |
| Lab ID:         | 128402-23           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/17/2005           |
| % Solids        | 79.86               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 69         |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | ND             | 30.7 |       |
| Motor Oil | ND             | 61.4 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-59-17            |
| Lab ID:         | 128402-24           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/17/2005           |
| % Solids        | 78.61               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 80.5       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL   | Flags |
|-----------|----------------|------|-------|
| #2 Diesel | 208            | 29.2 | X1    |
| Motor Oil | ND             | 58.4 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-59-20            |
| Lab ID:         | 128402-25           |
| Date Received:  | 6/15/2005           |
| Date Prepared:  | 6/16/2005           |
| Date Analyzed:  | 6/17/2005           |
| % Solids        | 75.23               |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 64.3       |       | 50              | 150  |

Sample results are on a dry weight basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 35 |       |
| Motor Oil | ND             | 70 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-17-5             |
| Lab ID:         | 128402-01           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 87.48               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | 17.3              | 2.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-17-9.5           |
| Lab ID:         | 128402-02           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 87.19               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 9.13              | 1.96 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-17-11            |
| Lab ID:         | 128402-03           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 77.42               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 3.42              | 2.44 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-17-18.5          |
| Lab ID:         | 128402-04           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 61.01               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 9.2               | 2.87 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-17-20            |
| Lab ID:         | 128402-05           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 70.39               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 9.18              | 2.73 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-18-5             |
| Lab ID:         | 128402-06           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 86.82               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 3.01              | 1.99 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-18-9.5           |
| Lab ID:         | 128402-07           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 87.92               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.06 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-18-11            |
| Lab ID:         | 128402-08           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 81.53               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.17 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-18-12.5          |
| Lab ID:         | 128402-09           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.59               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 13.2              | 2.22 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | SB-18-20            |
| Lab ID:         | 128402-10           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.33               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | ND                | 2.2 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-60-5             |
| Lab ID:         | 128402-11           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 86.54               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 1.96 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-60-9.5           |
| Lab ID:         | 128402-12           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 86.83               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.22 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-60-11            |
| Lab ID:         | 128402-13           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 84.68               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 1.99 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-60-12.5          |
| Lab ID:         | 128402-14           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 84.2                |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 20.2              | 2.19 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-60-14            |
| Lab ID:         | 128402-15           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 82.36               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 6.73              | 2.04 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-60-15.5          |
| Lab ID:         | 128402-16           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 83.05               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 3.1               | 2.14 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-60-20            |
| Lab ID:         | 128402-17           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 26.74               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 67.9              | 7.18 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-59-5             |
| Lab ID:         | 128402-18           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 82.93               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 5.1               | 2.08 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-59-9.5           |
| Lab ID:         | 128402-19           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 52.88               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 43.1              | 3.29 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-59-11            |
| Lab ID:         | 128402-20           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 82.36               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 4.73              | 2.24 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-59-12.5          |
| Lab ID:         | 128402-21           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.04               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 5.65              | 2.36 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-59-14            |
| Lab ID:         | 128402-22           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.01               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | 26.1              | 2.4 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-59-15.5          |
| Lab ID:         | 128402-23           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 79.86               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | ND                | 2.19 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-59-17            |
| Lab ID:         | 128402-24           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 78.61               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL   | Flags |
|---------|-------------------|------|-------|
| Lead    | 65.1              | 2.23 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name     | Delta Environmental |
| Client ID:      | MW-59-20            |
| Lab ID:         | 128402-25           |
| Date Received:  | 6/15/05             |
| Date Prepared:  | 6/16/05             |
| Date Analyzed:  | 6/16/05             |
| Dilution Factor | 1                   |
| % Solids        | 75.23               |

## Metals by ICP - USEPA Method 6010

Sample results are on a dry weight basis.

| Analyte | Result<br>(mg/kg) | RL  | Flags |
|---------|-------------------|-----|-------|
| Lead    | 9.28              | 2.3 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DS1500 |
| Date Received:  | -                     |
| Date Prepared:  | 6/16/2005             |
| Date Analyzed:  | 6/16/2005             |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 80.4       |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 25 |       |
| Motor Oil | ND             | 50 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DS1501 |
| Date Received:  | -                     |
| Date Prepared:  | 6/16/2005             |
| Date Analyzed:  | 6/17/2005             |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 64.1       |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL | Flags |
|-----------|----------------|----|-------|
| #2 Diesel | ND             | 25 |       |
| Motor Oil | ND             | 50 |       |



# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DS1500  
Date Prepared: 6/16/2005  
Date Analyzed: 6/16/2005  
QC Batch ID: DS1500

### Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|-----|------|
| #2 Diesel     | 0                    | 500                  | 466               | 93.1      | 473                | 94.7       | 1.7 |      |
| Motor Oil     | 0                    | 500                  | 489               | 97.9      | 511                | 102        | 4.1 |      |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DS1501  
Date Prepared: 6/16/2005  
Date Analyzed: 6/17/2005  
QC Batch ID: DS1501

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|-----|------|
| #2 Diesel     | 0                    | 500                  | 437               | 87.4      | 520                | 104        | 17  |      |
| Motor Oil     | 0                    | 500                  | 452               | 90.5      | 501                | 100        | 10  |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-17-18.5  
Lab ID: 128402-04  
Date Prepared: 6/16/2005  
Date Analyzed: 6/16/2005  
QC Batch ID: DS1500

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 437                   | 283                      | 43.0  | N    |
| Motor Oil      | 925                   | 546                      | 52.0  | N    |

# STL Seattle

## Duplicate Report

Client Sample ID: MW-60-12.5  
Lab ID: 128402-14  
Date Prepared: 6/16/2005  
Date Analyzed: 6/16/2005  
QC Batch ID: DS1500

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 570                   | 457                      | 22.0  |      |
| Motor Oil      | 85.5                  | 65.3                     | 27.0  |      |

# STL Seattle

## Duplicate Report

Client Sample ID: MW-59-20  
Lab ID: 128402-25  
Date Prepared: 6/16/2005  
Date Analyzed: 6/17/2005  
QC Batch ID: DS1501

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| #2 Diesel      | 0                     | 0                        | NC    |      |
| Motor Oil      | 0                     | 0                        | NC    |      |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - SP1330 |
| Date Received:  | -                     |
| Date Prepared:  | 6/16/05               |
| Date Analyzed:  | 6/16/05               |
| Dilution Factor | 1                     |

## Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

| Analyte | Result<br>(mg/kg) | RL | Flags |
|---------|-------------------|----|-------|
| Lead    | ND                | 2  |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - SP1331 |
| Date Received:  | -                     |
| Date Prepared:  | 6/16/05               |
| Date Analyzed:  | 6/16/05               |
| Dilution Factor | 1                     |

## Metals by ICP - USEPA Method 6010

Sample results are on an as received basis.

| Analyte | Result<br>(mg/kg) | RL | Flags |
|---------|-------------------|----|-------|
| Lead    | ND                | 2  |       |

# STL Seattle

## Matrix Spike Report

Client Sample ID: SB-17-5  
Lab ID: 128402-01  
Date Prepared: 6/16/05  
Date Analyzed: 6/16/05  
QC Batch ID: SP1330

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Spike Amount (mg/kg) | MS Result (mg/kg) | MS % Rec. | Flag |
|----------------|-----------------------|----------------------|-------------------|-----------|------|
| Lead           | 17.3                  | 109                  | 122               | 95        |      |



# STL Seattle

## Matrix Spike Report

Client Sample ID: GP2-S-10.0  
Lab ID: 128318-01  
Date Prepared: 6/16/05  
Date Analyzed: 6/16/05  
QC Batch ID: SP1331

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Spike Amount (mg/kg) | MS Result (mg/kg) | MS % Rec. | Flag |
|----------------|-----------------------|----------------------|-------------------|-----------|------|
| Lead           | 0                     | 104                  | 102               | 98        |      |

# STL Seattle

## Duplicate Report

Client Sample ID: SB-17-5  
Lab ID: 128402-01  
Date Prepared: 6/16/05  
Date Analyzed: 6/16/05  
QC Batch ID: SP1330

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| Lead           | 17                    | 15                       | 13.0  |      |

# STL Seattle

## Duplicate Report

Client Sample ID: GP2-S-10.0  
Lab ID: 128318-01  
Date Prepared: 6/16/05  
Date Analyzed: 6/16/05  
QC Batch ID: SP1331

### Metals by ICP - USEPA Method 6010

| Parameter Name | Sample Result (mg/kg) | Duplicate Result (mg/kg) | RPD % | Flag |
|----------------|-----------------------|--------------------------|-------|------|
| Lead           | 0                     | 0                        | NC    |      |

**DATA QUALIFIERS AND ABBREVIATIONS**

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- C3: Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be ≤ 30%.
- C4: Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The original analysis was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- RL: Reporting Limit
- N: See analytical narrative
- ND: Not Detected
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be \_\_\_\_\_.
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.

5140  
w/15  
178402

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.stl-inc.com

**Chain of  
Custody Record**

Client: Conoco Phillips 410 Delta Env. Project Manager: Eric Larsen / elarsen@delteenv.com Date: 6-14-2005 Chain of Custody Number: 04026

Address: 17720 NE 65th St. Ste 201 Telephone Number (Area Code)/Fax Number: 425-558-0134 Lab Number: \_\_\_\_\_ Page: 1 of 3

City: Redmond State: WA Zip Code: 98052 Site Contact: Tom Coyner Analysis (Attach list if more space is needed): \_\_\_\_\_

Project Name and Location (State): WA 255-3510-1 1255 353 Seattle Contract/Purchase Order/Quote No.: WO # 1396DELO10 Carrier/Waybill Number: \_\_\_\_\_

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date      | Time  | Matrix |         |      |      |         | Containers & Preservatives |      |     |      |               | Special Instructions/<br>Conditions of Receipt |  |  |  |  |  |  |  |
|--|-----------|-------|--------|---------|------|------|---------|----------------------------|------|-----|------|---------------|--|--|--|--|--|--|--|--|
|  |           |       | Air    | Aqueous | Sed. | Soil | Unpres. | H2SO4                      | HNO3 | HCl | NaOH | ZnAc/<br>NaOH |  |  |  |  |  |  |  |  |
| SB-17-5  | 6-14-2005 | 7:40  |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| SB-17-9.5  |           | 7:55  |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| SB-17-11   |           | 8:00  |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| SB-17-18.5   |           | 8:20  |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| SB-17-20   |           | 8:30  |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| SB-18-5  |           | 9:20  |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| SB-18-9.5  |           | 9:32  |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| SB-18-11   |           | 9:35  |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| SB-18-12.5   |           | 9:40  |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| SB-18-20   |           | 10:00 |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| MW-60-5  |           | 11:20 |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |
| MW-60-9.5  | 6-14-2005 | 11:30 |        |         | X    | X    | 1       |                            |      |     |      |               |  |  |  |  |  |  |  |  |

QC Requirements (Specify): \_\_\_\_\_

QC Requirements (Specify):

- Relinquished By: Eric Larsen Date: 6-15-05 Time: 0845
- Relinquished By: Gene Seeda Date: 6-15-05 Time: 0957
- Relinquished By: Gene Seeda Date: 6/15/05 Time: 1145

Comments: Please run NW-TPH-Dx with silica gel clean up.

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

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_

1. Relinquished By: Eric Larsen Date: 6-15-05 Time: 0845

2. Relinquished By: Gene Seeda Date: 6-15-05 Time: 0957

3. Relinquished By: Gene Seeda Date: 6/15/05 Time: 1145

Comments: Please run NW-TPH-Dx with silica gel clean up.

STL8274-580 (12/02)

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**Chain of  
Custody Record**

Client: **Conoco Phillips Co Delta Env.** Project Manager: **Eric Larsen / elarsen@deltazenv.com** Date: **6-14-05** Chain of Custody Number: **04022**

Address: **17720 NE 65th St. Ste. 201** Telephone Number (Area Code)/Fax Number: **425-558-0134** Lab Number: **2** of **3**

City: **Redmond** State: **WA** Zip Code: **98052** Site Contact: **Kifley** Lab Contact: **Tom Coyner** Page: **2** of **3**

Project Name and Location (State): **WA 255-3510-1 / 255-353 Seattle** Carrier/Waybill Number: **WO # 1396 DELO10**

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date    | Time  | Matrix |         |      |      | Containers & Preservatives |       |      |     | Analysis (Attach list if more space is needed) | Special Instructions/<br>Conditions of Receipt |      |               |
|--|---------|-------|--------|---------|------|------|----------------------------|-------|------|-----|--|--|------|---------------|
|  |         |       | Air    | Aqueous | Sed. | Soil | Unpres.                    | H2SO4 | HNO3 | HCl |  |  | NaOH | ZnAc/<br>NaOH |
| MW-60-11   | 6-14-05 | 11:35 |        | X       |      | X    |                            |       |      |     |  |  |      |               |
| MW-60-12.5   | 6-14-05 | 11:40 |        | X       |      | X    |                            |       |      |     |  |  |      |               |
| MW-60-14   |         | 11:50 |        | X       |      | X    |                            |       |      |     |  |  |      |               |
| MW-60-15.5   |         | 11:55 |        | X       |      | X    |                            |       |      |     |  |  |      |               |
| MW-60-20   |         | 12:10 |        | X       |      | X    |                            |       |      |     |  |  |      |               |
| MW-59-5  |         | 15:30 |        | X       |      | X    |                            |       |      |     |  |  |      |               |
| MW-59-9.5  |         | 15:40 |        | X       |      | X    |                            |       |      |     |  |  |      |               |
| MW-59-11   |         | 15:45 |        | X       |      | X    |                            |       |      |     |  |  |      |               |
| MW-59-12.5   | 15:50   |       | X      |         | X    |      |                            |       |      |     |  |  |      |               |
| MW-59-14   | 16:00   |       | X      |         | X    |      |                            |       |      |     |  |  |      |               |
| MW-59-15.5   | 16:10   |       | X      |         | X    |      |                            |       |      |     |  |  |      |               |
| MW-59-17   | 6-14-05 | 16:15 |        | X       |      | X    |                            |       |      |     |  |  |      |               |

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Months \_\_\_\_\_

Sample Disposal:  Disposal By Lab  Return To Client  Archive For \_\_\_\_\_

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_

QC Requirements (Specify)

|  |                      |                    |
|--|----------------------|--------------------|
| 1. Relinquished By: <b>ERT</b>         | Date: <b>6-15-05</b> | Time: <b>08:45</b> |
| 2. Relinquished By: <b>Jenna Seeds</b> | Date: <b>6-15-05</b> | Time: <b>09:57</b> |
| 3. Relinquished By: <b>Jenna Seeds</b> | Date: <b>6/15/05</b> | Time: <b>11:45</b> |

Comments: **Please run NW TPH-Dx with Silice get clean up.**

**Client:** Conoco Phillips c/o Delta Env  
**Address:** 17720 NE 65th St, Ste. 201  
**City:** Redmond  
**State:** WA **Zip Code:** 98052  
**Project Name and Location (State):** 255.353 Se2He/WA 255.3510-1  
**Contract/Purchase Order/Quote No.:** WO# 1396DEL010

**Project Manager:** Eric Larsen / elarsen@delteenv.com  
**Telephone Number (Area Code)/Fax Number:** 425-558-0134  
**Site Contact:** Mng. Killley  
**Carrier/Waybill Number:** Tom Coyner

**Date:** 6-14-2005  
**Chain of Custody Number:** 04023  
**Page:** 3 of 3

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date      | Time | Matrix |         |      |      | Containers & Preservatives |       |      |     | Analysis (Attach list if more space is needed) | Special Instructions/<br>Conditions of Receipt |      |  |  |
|--|-----------|------|--------|---------|------|------|----------------------------|-------|------|-----|--|--|------|--|--|
|  |           |      | Air    | Aqueous | Sed. | Soil | Unpres.                    | H2SO4 | HNO3 | HCl |  |  | NaOH | ZnAc/<br>NaOH  |  |
| MW-59-20   | 6-14-2005 | 6:20 |        | X       |      |      |                            |       |      | 1   |  |  |      | X MWTPH-Gx<br>X BTEX+M+N (B2608)<br>X MWTPH-Dx (w/2.1g/kenw)<br>X 164 Lead |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |
|  |           |      |        |         |      |      |                            |       |      |     |  |  |      |  |  |

**QC Requirements (Specify)**

**Cooler:** Yes  No  **Flammable:**  Non-Hazard  **Skin Irritant:**  **Poison B:**  **Poison C:**  **Other:**

**Turn Around Time Required (business days):** 24 Hours  48 Hours  5 Days  10 Days  15 Days

**1. Relinquished By:** CPB Date: 6-15-05 Time: 08:45  
**2. Relinquished By:** Lona Seedo Date: 6-15-05 Time: 09:57  
**3. Relinquished By:** Paula Nester Date: 6/15/05 Time: 11:45

**Disposal:**  Return To Client  **Unknown:**  **Archive For:** \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

**Received By:** Paula Nester Date: 6/15/05 Time: 9:57  
**Received By:** Paula Nester Date: 6/15/05 Time: 9:57  
**Received By:** Paula Nester Date: 6/15/05 Time: 9:57

**Comments:** Please run NW-TPH Dx with silica gel clean up.

SEVERN

TRENT

STL

STL Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059  
www.stl-inc.com

June 24, 2005

**STL SACRAMENTO PROJECT NUMBER: G5F160160**  
**PO/CONTRACT: 128402**

Tom Coyner  
STL Seattle  
5755 8th Street East  
Tacoma, WA 98424

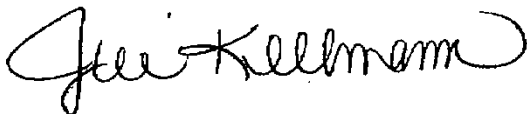
Dear Mr. Coyner,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on June 16, 2005. These samples are associated with your 128402 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4402.

Sincerely,



Jill Kellmann  
Project Manager



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Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

SOLID, 8260B, BTEX/MTBE/Naphthalene

Samples: 1 through 25

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

Raw Data Section

## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F160160

#### General Comments

All samples were received in good condition on June 16, 2005. The cooler was packed appropriately according to STL policy. Sufficient wet ice was present upon receipt. The temperature blank was received at 2°C. However, the average sample temperature was 10°C, based on readings of 9°C, 10°C, and 11° C. The impact on sample data is minimal, as the samples received were methanol extracts. Hence, the affinity of the target analytes to methanol exceeds the potential loss due to volatility.

The percent moisture analysis was performed at STL Seattle. Results were provided to STL Sacramento for purposes of dry weight correction.

One vial was received for both the 8260 and TPH-G analysis for most samples. In order to be able to analyze for both tests, where possible, a 1.0ml aliquot of extract was spiked with appropriate surrogate and then appropriate dilutions made.

The analyst observed that some of the sample labels were obscured. It is possible that methanol was lost during the sampling process and came in contact with the label on the outside of the vial.

#### SOLID, NWTPH-Gx, Northwest TPH

Sample(s): 1 through 25

The samples were initially intended to be analyzed at STL Seattle. The surrogate trifluorotoluene (TFT) was field spiked into each sample. This surrogate is not used under standard operating procedures at STL Sacramento and, therefore, the instrumentation is not curved appropriately to quantitate results using surrogate TFT. For the NWTPH-Gas analysis, TFT was identified and subtracted from the area of quantitation. 4-Bromofluorobenzene (BFB) was spiked at analysis and is the reported surrogate.

Sample(s): 14, 15

Samples 14 (100X) and 15 (20X) required dilutions due to high analyte levels or matrix. The reporting limits have been adjusted accordingly and the samples have been appropriately "Q" flagged.

Sample(s): 5, 13, 23

Samples 5, 13 and 23 had a percent recovery (%R) for the surrogate 4-Bromofluorobenzene greater than the upper control limit of 171%. All other surrogate quality control components associated with these samples were in control. The elevated %R is attributed to matrix effects.

## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F160160

#### **SOLID, 8260B, BTEX/MTBE/Naphthalene**

Sample(s): 14, 15, 24

Samples 14 (50X), 15 (500X), and 24 (5X) required dilutions due to high analyte levels or matrix. The reporting limits have been adjusted accordingly and the samples have been appropriately "Q" flagged.

#### **SOLID, NWTPH-G and 8260B, BTEX/MTBE/Naphthalene**

Sample(s): 1 through 25

Insufficient volume was available for a matrix spike/matrix spike duplicate (MS/MSD). A laboratory control sample/duplicate control sample (LCS/DCS) was prepared instead.

There were no other anomalies associated with this project.

**STL Sacramento Certifications/Accreditations**

| Certifying State | Certificate # | Certifying State  | Certificate # |
|------------------|---------------|-------------------|---------------|
| Alaska           | UST-055       | Oregon*           | CA 200005     |
| Arizona          | 870616        | South Carolina    | 87014002      |
| Arkansas         | 04-067-0      | Utah*             | QUAN1         |
| California       | 011196A       | Washington        | C087          |
| Colorado         | NA            | Wisconsin         | 998204680     |
| Connecticut      | PH0369        | USACE             | NA            |
| Florida*         | E87570        | USDA Foreign Soil | S-46613       |
| Georgia          | 960           |                   |               |
| Hawaii           | NA            |                   |               |
| Illinois         | 01944         |                   |               |
| Michigan         | 9947          |                   |               |
| Minnesota        | QA44          |                   |               |
| New Jersey*      | CA005         |                   |               |
| New York         | 11666         |                   |               |

\*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

**QC Parameter Definitions**

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

# Sample Summary

## G5F160160

| <u>WO#</u> | <u>Sample #</u> | <u>Client Sample ID</u> | <u>Sampling Date</u> | <u>Received Date</u> |
|------------|-----------------|-------------------------|----------------------|----------------------|
| HDP4M      | 1               | SB-17-5                 | 6/14/2005 07:40 AM   | 6/16/2005 09:15 AM   |
| HDP5X      | 2               | SB-17-9.5               | 6/14/2005 07:55 AM   | 6/16/2005 09:15 AM   |
| HDP50      | 3               | SB-17-11                | 6/14/2005 08:00 AM   | 6/16/2005 09:15 AM   |
| HDP52      | 4               | SB-17-18.5              | 6/14/2005 08:20 AM   | 6/16/2005 09:15 AM   |
| HDP54      | 5               | SB-17-20                | 6/14/2005 08:30 AM   | 6/16/2005 09:15 AM   |
| HDP55      | 6               | SB-18-5                 | 6/14/2005 09:20 AM   | 6/16/2005 09:15 AM   |
| HDP58      | 7               | SB-18-9.5               | 6/14/2005 09:32 AM   | 6/16/2005 09:15 AM   |
| HDP59      | 8               | SB-18-11                | 6/14/2005 09:35 AM   | 6/16/2005 09:15 AM   |
| HDP6A      | 9               | SB-18-12.5              | 6/14/2005 09:40 AM   | 6/16/2005 09:15 AM   |
| HDP6C      | 10              | SB-18-20                | 6/14/2005 10:00 AM   | 6/16/2005 09:15 AM   |
| HDP6D      | 11              | MW-60-5                 | 6/14/2005 11:20 AM   | 6/16/2005 09:15 AM   |
| HDP6E      | 12              | MW-60-9.5               | 6/14/2005 11:30 AM   | 6/16/2005 09:15 AM   |
| HDP6F      | 13              | MW-60-11                | 6/14/2005 11:35 AM   | 6/16/2005 09:15 AM   |
| HDP6H      | 14              | MW-60-12.5              | 6/14/2005 11:40 AM   | 6/16/2005 09:15 AM   |
| HDP6J      | 15              | MW-60-14                | 6/14/2005 11:50 AM   | 6/16/2005 09:15 AM   |
| HDP6L      | 16              | MW-60-15.5              | 6/14/2005 11:55 AM   | 6/16/2005 09:15 AM   |
| HDP6N      | 17              | MW-60-20                | 6/14/2005 12:10 PM   | 6/16/2005 09:15 AM   |
| HDP6P      | 18              | MW-59-5                 | 6/14/2005 03:30 PM   | 6/16/2005 09:15 AM   |
| HDP6Q      | 19              | MW-59-9.5               | 6/14/2005 03:40 PM   | 6/16/2005 09:15 AM   |
| HDP6R      | 20              | MW-59-11                | 6/14/2005 03:45 PM   | 6/16/2005 09:15 AM   |
| HDP6T      | 21              | MW-59-12.5              | 6/14/2005 03:50 PM   | 6/16/2005 09:15 AM   |
| HDP6V      | 22              | MW-59-14                | 6/14/2005 04:00 PM   | 6/16/2005 09:15 AM   |
| HDP61      | 23              | MW-59-15.5              | 6/14/2005 04:10 PM   | 6/16/2005 09:15 AM   |
| HDP62      | 24              | MW-59-17                | 6/14/2005 04:15 PM   | 6/16/2005 09:15 AM   |
| HDP63      | 25              | MW-59-20                | 6/14/2005 04:20 PM   | 6/16/2005 09:15 AM   |

**Notes(s):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
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www.stl-inc.com

**Chain of  
Custody Record**

Client: STL - Seattle Project Manager: Tom Cooney Date: 6/15/05 Chain of Custody Number: 15414  
 Address: \_\_\_\_\_ Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Page: 3 of 3

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date    | Time | Matrix  |     |     |      |         |       | Containers & Preservatives |     |      |               |      |      | Analysis (Attach list if more space is needed) | Special Instructions/<br>Conditions of Receipt |             |             |  |
|--|---------|------|---------|-----|-----|------|---------|-------|----------------------------|-----|------|---------------|------|------|--|--|-------------|-------------|--|
|  |         |      | Aqueous | Sol | Sed | Soil | Urpres. | H2SO4 | HNO3                       | HCl | NaOH | ZnAc/<br>NaOH | H2O2 | MTBE |  |  | NMP/HGx/Hex | Naphthalene |  |
| SB-17-5  | 6/14/05 | 740  |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| SB-17-9.5  |         | 755  |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| SB-17-11   |         | 800  |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| SB-17-18.5   |         | 820  |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| SB-17-70   |         | 830  |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| SB-18-5  |         | 920  |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| SB-18-9.5  |         | 932  |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| SB-18-11   |         | 935  |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| SB-18-17.5   |         | 940  |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| SB-18-20   |         | 1000 |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| MW-100-5   |         | 1120 |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |
| MW-100-9.5   |         | 1150 |         |     |     |      |         |       |                            |     |      |               |      | X    |  |  |             |             |  |

RECEIVED IN GOOD CONDITION  
LOWER COC  
JUL 11 2005  
NI

Project Name and Location (State): WA 255-3510-1 Carrier/Waybill Number: 1256 853 Seattle  
 Contract/Purchase Order/Quote No: 12 8402

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Lab Contact: \_\_\_\_\_

Site Contact: \_\_\_\_\_

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Disposal By Lab  Return To Client  Archive For \_\_\_\_\_ Months

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other 6/20/05

Requisitioned By: [Signature] Date: 6/15/05 Time: 1505  
 Requisitioned By: [Signature] Date: 6/16/05 Time: 930

Reinquisitioned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Reinquisitioned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: \_\_\_\_\_

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.stl-inc.com

## Chain of Custody Record

|  |  |                                      |  |   |  |
|--|--|--------------------------------------|--|---|--|
| Client<br><b>STL - Seattle</b>   |  | Project Manager<br><b>TOM COYNER</b> |  | Chain of Custody Number<br><b>15412</b>   |  |
| Address  |  | Date<br><b>6/15/05</b>               |  | Lab Number<br><b>2</b> of <b>3</b>  |  |
| City   |  | Lab Contact                          |  | Analysis (Attach list if more space is needed)  |  |
| State  |  | Site Contact                         |  | Special Instructions/<br>Conditions of Receipt  |  |
| Zip Code   |  | Carrier/Waybill Number               |  |   |  |
| Project Name and Location (State)<br><b>WA-255-3510-1 / 255-353 Seattle</b>                      |  | Containers & Preservatives           |  |   |  |
| Contract/Purchase Order/Quote No.<br><b>28402</b>  |  | Matrix                               |  |   |  |
| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) |  | Time                                 |  |   |  |
| Date   |  | Date                                 |  |   |  |
| MW-120-11  |  | 1135                                 |  | RECEIVED IN GOOD CONDITION UNDER COC  |  |
| MW-120-12.5  |  | 1146                                 |  | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>JUN 16 2005</b> </div> |  |
| MW-120-14  |  | 1150                                 |  |   |  |
| MW-120-15.5  |  | 1155                                 |  |   |  |
| MW-120-20  |  | 1210                                 |  |   |  |
| MW-59-5  |  | 1530                                 |  |   |  |
| MW-59-9.5  |  | 1540                                 |  |   |  |
| MW-59-11   |  | 1545                                 |  |   |  |
| MW-59-12.5   |  | 1550                                 |  |   |  |
| MW-59-14   |  | 1600                                 |  |   |  |
| MW-59-15.5   |  | 1610                                 |  |   |  |
| MW-59-17   |  | 1615                                 |  |   |  |

No Cooler Temp.      Possible Hazard Identification  
 Non-Hazard     Flammable     Skin Irritant     Poison B     Unknown     Disposal By Lab  
 Return To Client     Archive For    Months    (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)  
 24 Hours     48 Hours     5 Days     10 Days     15 Days     Other **6/20/05**

1. Relinquished By **Robert Ambulation**    Date **6/15/05**    Time **1505**  
 2. Relinquished By **Chy/Hyt**    Date **6-16-05**    Time **930**  
 3. Relinquished By    Date    Time

Comments

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.stl-ffc.com

**Chain of  
Custody Record**

G5F160160

Client: **STL - Seattle**  
Address: **128401**

Project Manager: **TOM CANARY**  
Telephone Number (Area Code)/Fax Number: **253-3510-1 / 128401**

City: **Seattle** State: **WA** Zip Code: **98101**

Project Name and Location (State): **255-3510-1 / 255-353 Seattle**

Contract/Purchase Order/Quote No.: **128401**

Date: **10/15/05** Chain of Custody Number: **15413**

Lab Number: **3** of **3**

Special Instructions/ Conditions of Receipt: **REQUIRE GOOD CONDITION UNDER 1000**

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date           | Time         | Matrix |      |        | Containers & Preservatives |       |      |     |      |               |  | Analysis (Attach list if more space is needed) | Sample Disposal<br><input type="checkbox"/> Return to Client<br><input type="checkbox"/> Archive For _____ Months | Disposal By Lab<br><input type="checkbox"/> Archive For _____ Months |          |          |          |          |          |          |          |
|--|----------------|--------------|--------|------|--------|----------------------------|-------|------|-----|------|---------------|--|--|---|--|----------|----------|----------|----------|----------|----------|----------|
|  |                |              | Air    | Soil | Sludge | Impres                     | H2SO4 | HNO3 | HCl | NaOH | ZnAc/<br>NaOH |  |  |   |  |          |          |          |          |          |          |          |
| <b>MW-59-20</b>  | <b>6/14/05</b> | <b>10:20</b> |        |      |        |                            |       |      |     |      |               |  | <b>X</b>                                       | <b>X</b>  | <b>X</b>   | <b>X</b> | <b>X</b> | <b>X</b> | <b>X</b> | <b>X</b> | <b>X</b> | <b>X</b> |
| Additional empty rows for samples.   |                |              |        |      |        |                            |       |      |     |      |               |  |  |   |  |          |          |          |          |          |          |          |

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_

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

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days

QC Requirements (Specify): **6/20/05**

1. Relinquished By: *[Signature]* Date: \_\_\_\_\_ Time: \_\_\_\_\_

2. Relinquished By: *[Signature]* Date: \_\_\_\_\_ Time: \_\_\_\_\_

3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: \_\_\_\_\_

1. Received By: *[Signature]* Date: **6/16/05** Time: **9:30**

2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

(A fee may be assessed if samples are retained longer than 1 month)

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





# SOLID, NWTPH-Gx

STL SEATTLE

Client Sample ID: SB-17-5

GC Volatiles

Lot-Sample #....: G5F160160-001    Work Order #....: HDP4M1AD    Matrix.....: SOLID  
Date Sampled....: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
Prep Batch #....: 5173429  
Dilution Factor: 1  
% Moisture.....: 13    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 5700                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 85                                | (39 - 171)                       |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-17-9.5

GC Volatiles

Lot-Sample #...: G5F160160-002    Work Order #...: HDP5X1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 13    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | ND            | 5700                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 95                          | (39 - 171)                 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-17-11

GC Volatiles

Lot-Sample #...: G5F160160-003    Work Order #...: HDP501AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 23    Method.....: NWT PH NWT PH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | ND            | 6500                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 96                                | (39 - 171)                       |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-17-18.5

GC Volatiles

Lot-Sample #...: G5F160160-004    Work Order #...: HDP521AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 39    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | 36000         | 8200                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 148                         | (39 - 171)                 |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-17-20

GC Volatiles

Lot-Sample #...: G5F160160-005    Work Order #...: HDP541AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 30    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | 52000         | 7100                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 186 *                       | (39 - 171)                 |

NOTE(S) :

\* Surrogate recovery is outside stated control limits.  
Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-18-5

GC Volatiles

Lot-Sample #...: G5F160160-006    Work Order #...: HDP551AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 13    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | ND            | 5800                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 98                                | (39 - 171)                       |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-18-9.5

GC Volatiles

Lot-Sample #....: G5F160160-007    Work Order #....: HDP581AD    Matrix.....: SOLID  
Date Sampled....: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
Prep Batch #....: 5173429  
Dilution Factor: 1  
% Moisture.....: 12    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 5700                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 98                                | (39 - 171)                       |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-18-11

GC Volatiles

Lot-Sample #...: G5F160160-008    Work Order #...: HDP591AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 18    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|----------------------|-------------------------|------------------------|--------------|
| TPH (as Gasoline)    | ND                      | 6100                   | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |              |
| 4-Bromofluorobenzene | 96                      | (39 - 171)             |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-18-12.5

GC Volatiles

Lot-Sample #...: G5F160160-009    Work Order #...: HDP6A1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 20    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | ND                          | 6300                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 93                          | (39 - 171)                 |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-18-20

GC Volatiles

Lot-Sample #...: G5F160160-010    Work Order #...: HDP6C1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 21    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 6300                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 96                                | (39 - 171)                       |              |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-60-5

GC Volatiles

Lot-Sample #...: G5F160160-011    Work Order #...: HDP6D1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 13    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 5800                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 96                                | (39 - 171)                       |              |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-60-9.5

GC Volatiles

Lot-Sample #...: G5F160160-012    Work Order #...: HDP6E1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received..: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 13    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | 13000         | 5800                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 101                               | (39 - 171)                       |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-60-11

GC Volatiles

Lot-Sample #...: G5F160160-013    Work Order #...: HDP6F1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 140000                      | 5900                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 173 *                       | (39 - 171)                 |              |

NOTE(S):

\* Surrogate recovery is outside stated control limits.  
Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-60-12.5

GC Volatiles

Lot-Sample #...: G5F160160-014    Work Order #...: HDP6H1AD    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
 Prep Batch #...: 5173429  
 Dilution Factor: 100  
 % Moisture.....: 16    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|----------------------|-------------------------|------------------------|--------------|
| TPH (as Gasoline)    | 7100000                 | 590000                 | ug/kg        |
|                      |                         |                        |              |
| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                 | (39 - 171)             |              |

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
 Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: MW-60-14

GC Volatiles

Lot-Sample #....: G5F160160-015    Work Order #....: HDP6J1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/24/05  
Prep Batch #....: 5173429  
Dilution Factor: 200  
% Moisture.....: 18    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 10000000                    | 1200000                    | ng/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 0.0 SRD                     | (39 - 171)                 |              |

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-60-15.5

GC Volatiles

Lot-Sample #...: G5F160160-016    Work Order #...: HDP6L1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | 14000         | 6000                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 78                          | (39 - 171)                 |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-60-20

GC Volatiles

Lot-Sample #...: G5F160160-017    Work Order #...: HDP6N1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 73    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | 37000         | 21000                            | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 105                               | (39 - 171)                       |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-59-5

GC Volatiles

Lot-Sample #...: G5F160160-018    Work Order #...: HDP6P1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 17    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------------|----------------------------------|--------------|
| TPH (as Gasoline)    | ND                                | 6000                             | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |
| 4-Bromofluorobenzene | 97                                | (39 - 171)                       |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-59-9.5

GC Volatiles

Lot-Sample #...: G5F160160-019    Work Order #...: HDP6Q1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 47    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | ND            | 9500                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 96                                | (39 - 171)                       |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-59-11

GC Volatiles

Lot-Sample #...: G5F160160-020    Work Order #...: HDP6R1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #...: 5173429  
Dilution Factor: 1  
% Moisture.....: 18    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 7600                        | 6100                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 96                          | (39 - 171)                 |              |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-59-12.5

GC Volatiles

Lot-Sample #: G5F160160-021    Work Order #: HDP6T1AD    Matrix: SOLID  
Date Sampled: 06/14/05    Date Received: 06/16/05  
Prep Date: 06/17/05    Analysis Date: 06/23/05  
Prep Batch #: 5173447  
Dilution Factor: 1  
% Moisture: 21    Method: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 10000                       | 6300                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 100                         | (39 - 171)                 |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-59-14

GC Volatiles

Lot-Sample #...: G5F160160-022    Work Order #...: HDP6V1AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #...: 5173447  
Dilution Factor: 1  
% Moisture.....: 21    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------|--------------|
| TPH (as Gasoline) | 34000         | 6300                       | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 102                         | {39 - 171}                 |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: MW-59-15.5

GC Volatiles

Lot-Sample #...: G5F160160-023 Work Order #...: HDP611AD Matrix.....: SOLID  
Date Sampled...: 06/14/05 Date Received...: 06/16/05  
Prep Date.....: 06/17/05 Analysis Date...: 06/23/05  
Prep Batch #...: 5173447  
Dilution Factor: 1  
% Moisture.....: 20 Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 230000                      | 6300                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 390 *                       | (39 - 171)                 |              |

NOTE(S):

\* Surrogate recovery is outside stated control limits.  
Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-59-17

GC Volatiles

Lot-Sample #...: G5F160160-024    Work Order #...: HDP621AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #...: 5173447  
Dilution Factor: 1  
% Moisture.....: 21    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>     | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|----------------------|-----------------------------|----------------------------|--------------|
| TPH (as Gasoline)    | 310000                      | 6400                       | ug/kg        |
| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| 4-Bromofluorobenzene | 141                         | (39 - 171)                 |              |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-59-20

GC Volatiles

Lot-Sample #....: G5F160160-025    Work Order #....: HDP631AD    Matrix.....: SOLID  
Date Sampled...: 06/14/05    Date Received...: 06/16/05  
Prep Date.....: 06/17/05    Analysis Date...: 06/23/05  
Prep Batch #....: 5173447  
Dilution Factor: 1  
% Moisture.....: 25    Method.....: NWTPH NWTPH-Gx

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------|---------------|----------------------------------|--------------|
| TPH (as Gasoline) | ND            | 6600                             | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| 4-Bromofluorobenzene | 92                                | (39 - 171)                       |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F160160

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 002            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 003            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 004            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 005            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 006            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 007            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 008            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 009            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 010            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 011            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F160160

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 012            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 013            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 014            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 015            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 016            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 017            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 018            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 019            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 020            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 021            | SOLID         | ASTM D 2216-90               |                          | 5171630                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171577                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173447                 |                |
| 022            | SOLID         | ASTM D 2216-90               |                          | 5171630                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171577                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173447                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F160160

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 023            | SOLID         | ASTM D 2216-90               |                          | 5171630                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171577                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173447                 |                |
| 024            | SOLID         | ASTM D 2216-90               |                          | 5171630                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171577                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173447                 |                |
| 025            | SOLID         | ASTM D 2216-90               |                          | 5171630                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171577                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173447                 |                |

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G5F160160      Work Order #...: HD6G51AA      Matrix.....: SOLID  
MB Lot-Sample #: G5F220000-429  
Prep Date.....: 06/17/05  
Analysis Date...: 06/22/05      Prep Batch #...: 5173429  
Dilution Factor: 1

| <u>PARAMETER</u>     | <u>RESULT</u>                     | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>  |
|----------------------|-----------------------------------|----------------------------------|--------------|----------------|
| TPH (as Gasoline)    | ND                                | 5000                             | ug/kg        | NWTPH NWTPH-Gx |
| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |              |                |
| 4-Bromofluorobenzene | 85                                | (39 - 171)                       |              |                |

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G5F160160      Work Order #...: HD6JE1AA      Matrix.....: SOLID  
MB Lot-Sample #: G5F220000-447  
Prep Date.....: 06/17/05  
Analysis Date...: 06/22/05      Prep Batch #...: 5173447  
Dilution Factor: 1

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>  |
|----------------------|-----------------|----------------------------|--------------|----------------|
| TPH (as Gasoline)    | ND              | 5000                       | ug/kg        | NWTPH NWTPH-Gx |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>            |              |                |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>              |              |                |
| 4-Bromofluorobenzene | 93              | (39 - 171)                 |              |                |

NOTE(S) :

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



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: G5F160160      Work Order #...: HD6G51AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F220000-429      HD6G51AD-LCSD  
 Prep Date.....: 06/17/05      Analysis Date...: 06/22/05  
 Prep Batch #...: 5173429  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u>  |
|-------------------|-------------------------|------------------------|------------|-------------------|----------------|
| TPH (as Gasoline) | 94                      | (73 - 136)             |            |                   | NWTPH NWTPH-Gx |
|                   | 98                      | (73 - 136)             | 4.0        | (0-21)            | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 91                      | (39 - 171)             |
|                      | 95                      | (39 - 171)             |

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: G5F160160      Work Order #...: HD6G51AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F220000-429      HD6G51AD-LCSD  
 Prep Date.....: 06/17/05      Analysis Date..: 06/22/05  
 Prep Batch #...: 5173429  
 Dilution Factor: 1

| <u>PARAMETER</u>     | <u>SPIKE</u><br><u>AMOUNT</u> | <u>MEASURED</u><br><u>AMOUNT</u> | <u>UNITS</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>                    |
|----------------------|-------------------------------|----------------------------------|--------------|-----------------------------------|------------|----------------------------------|
| TPH (as Gasoline)    | 50000                         | 47200                            | ug/kg        | 94                                |            | NWTPH NWTPH-Gx                   |
|                      | 50000                         | 49200                            | ug/kg        | 98                                | 4.0        | NWTPH NWTPH-Gx                   |
| <u>SURROGATE</u>     |                               |                                  |              | <u>PERCENT</u><br><u>RECOVERY</u> |            | <u>RECOVERY</u><br><u>LIMITS</u> |
| 4-Bromofluorobenzene |                               |                                  |              | 91                                |            | (39 - 171)                       |
|                      |                               |                                  |              | 95                                |            | (39 - 171)                       |

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: G5F160160      Work Order #...: HD6JE1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F220000-447      HD6JE1AD-LCSD  
 Prep Date.....: 06/17/05      Analysis Date...: 06/22/05  
 Prep Batch #...: 5173447  
 Dilution Factor: 1

| <u>PARAMETER</u>  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u>  |
|-------------------|-------------------------|------------------------|------------|-------------------|----------------|
| TPH (as Gasoline) | 100                     | (73 - 136)             |            |                   | NWTPH NWTPH-Gx |
|                   | 102                     | (73 - 136)             | 2.1        | (0-21)            | NWTPH NWTPH-Gx |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| 4-Bromofluorobenzene | 96                      | (39 - 171)             |
|                      | 99                      | (39 - 171)             |

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: G5F160160      Work Order #...: HD6JE1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F220000-447      HD6JE1AD-LCSD  
 Prep Date.....: 06/17/05      Analysis Date...: 06/22/05  
 Prep Batch #...: 5173447  
 Dilution Factor: 1

| <u>PARAMETER</u>     | <u>SPIKE</u><br><u>AMOUNT</u> | <u>MEASURED</u><br><u>AMOUNT</u> | <u>UNITS</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RPD</u> | <u>METHOD</u>                    |
|----------------------|-------------------------------|----------------------------------|--------------|-----------------------------------|------------|----------------------------------|
| TPH (as Gasoline)    | 50000                         | 49800                            | ug/kg        | 100                               |            | NWTPH NWTPH-Gx                   |
|                      | 50000                         | 50900                            | ug/kg        | 102                               | 2.1        | NWTPH NWTPH-Gx                   |
| <u>SURROGATE</u>     |                               |                                  |              | <u>PERCENT</u><br><u>RECOVERY</u> |            | <u>RECOVERY</u><br><u>LIMITS</u> |
| 4-Bromofluorobenzene |                               |                                  |              | 96                                |            | (39 - 171)                       |
|                      |                               |                                  |              | 99                                |            | (39 - 171)                       |

**NOTE(S) :**

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

Bold print denotes control parameters

# SOLID, 8260B, BTEX/MTBE/Naphthalene

STL SEATTLE

Client Sample ID: SB-17-5

GC/MS Volatiles

Lot-Sample #...: G5F160160-001 Work Order #...: HDP4M1AC Matrix.....: SOLID  
 Date Sampled...: 06/14/05 Date Received...: 06/16/05  
 Prep Date.....: 06/17/05 Analysis Date...: 06/17/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.89  
 % Moisture.....: 13 Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | ND            | 250                    | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 510                    | ug/kg        |
| Benzene                           | ND            | 31                     | ug/kg        |
| Toluene                           | ND            | 250                    | ug/kg        |
| Ethylbenzene                      | ND            | 250                    | ug/kg        |
| Naphthalene                       | ND            | 250                    | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 95                      | (44 - 142)             |
| 4-Bromofluorobenzene  | 100                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 94                      | (43 - 147)             |
| Toluene-d8            | 107                     | (47 - 145)             |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-17-9.5

GC/MS Volatiles

Lot-Sample #....: G5F160160-002    Work Order #....: HDP5X1AC    Matrix.....: SOLID  
 Date Sampled....: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/17/05  
 Prep Batch #....: 5171576  
 Dilution Factor: 0.9  
 † Moisture.....: 13    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | ND            | 260                    | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 520                    | ug/kg        |
| Benzene                           | ND            | 31                     | ug/kg        |
| Toluene                           | ND            | 260                    | ug/kg        |
| Ethylbenzene                      | ND            | 260                    | ug/kg        |
| Naphthalene                       | ND            | 260                    | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 103                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 103                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 102                     | (43 - 147)             |
| Toluene-d8            | 110                     | (47 - 145)             |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-17-11

GC/MS Volatiles

Lot-Sample #....: G5F160160-003    Work Order #....: HDP501AC    Matrix.....: SOLID  
 Date Sampled....: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/17/05  
 Prep Batch #....: 5171576  
 Dilution Factor: 0.85  
 ‡ Moisture.....: 23    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 270       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 550       | ug/kg |
| Benzene                           | ND     | 33        | ug/kg |
| Toluene                           | ND     | 270       | ug/kg |
| Ethylbenzene                      | ND     | 270       | ug/kg |
| Naphthalene                       | ND     | 270       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 97       | (44 - 142) |
| 4-Bromofluorobenzene  | 98       | (41 - 152) |
| 1,2-Dichloroethane-d4 | 96       | (43 - 147) |
| Toluene-d8            | 108      | (47 - 145) |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: SB-17-18.5

GC/MS Volatiles

Lot-Sample #...: G5F160160-004    Work Order #...: HDP521AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/17/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.88  
 % Moisture.....: 39    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 360       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 720       | ug/kg |
| Benzene                           | ND     | 43        | ug/kg |
| Toluene                           | ND     | 360       | ug/kg |
| Ethylbenzene                      | ND     | 360       | ug/kg |
| Naphthalene                       | ND     | 360       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 101      | (44 - 142) |
| 4-Bromofluorobenzene  | 102      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 99       | (43 - 147) |
| Toluene-d8            | 108      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-17-20

GC/MS Volatiles

Lot-Sample #...: G5F160160-005    Work Order #...: HDP541AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/17/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.91  
 % Moisture.....: 30    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | ND     | 320                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 650                | ug/kg |
| Benzene                           | ND     | 39                 | ug/kg |
| Toluene                           | ND     | 320                | ug/kg |
| Ethylbenzene                      | ND     | 320                | ug/kg |
| Naphthalene                       | 150 J  | 320                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 99                  | (44 - 142)         |
| 4-Bromofluorobenzene  | 104                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 100                 | (43 - 147)         |
| Toluene-d8            | 107                 | (47 - 145)         |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: SB-18-5

GC/MS Volatiles

Lot-Sample #...: G5F160160-006    Work Order #...: HDP551AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/17/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.86  
 % Moisture.....: 13    Method.....: SW846 8260B

| PARAMETER                      | RESULT | REPORTING LIMIT | UNITS |
|--------------------------------|--------|-----------------|-------|
| Xylenes (total)                | ND     | 250             | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND     | 500             | ug/kg |
| Benzene                        | ND     | 30              | ug/kg |
| Toluene                        | ND     | 250             | ug/kg |
| Ethylbenzene                   | ND     | 250             | ug/kg |
| Naphthalene                    | ND     | 250             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 97               | (44 - 142)      |
| 4-Bromofluorobenzene  | 104              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 99               | (43 - 147)      |
| Toluene-d8            | 109              | (47 - 145)      |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-18-9.5

GC/MS Volatiles

Lot-Sample #...: G5F160160-007    Work Order #...: HDP581AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/17/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.81  
 ‡ Moisture.....: 12    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | ND     | 230       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 460       | ug/kg |
| Benzene                           | ND     | 28        | ug/kg |
| Toluene                           | ND     | 230       | ug/kg |
| Ethylbenzene                      | ND     | 230       | ug/kg |
| Naphthalene                       | ND     | 230       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 102      | (44 - 142) |
| 4-Bromofluorobenzene  | 106      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 101      | (43 - 147) |
| Toluene-d8            | 113      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-18-11

GC/MS Volatiles

Lot-Sample #...: G5F160160-008    Work Order #...: HDP591AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/17/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.91  
 % Moisture.....: 18    Method.....: SW846 8260B

| PARAMETER                         | RESULT          | REPORTING     |       |
|-----------------------------------|-----------------|---------------|-------|
|                                   |                 | LIMIT         | UNITS |
| Xylenes (total)                   | ND              | 280           | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND              | 560           | ug/kg |
| Benzene                           | ND              | 34            | ug/kg |
| Toluene                           | ND              | 280           | ug/kg |
| Ethylbenzene                      | ND              | 280           | ug/kg |
| Naphthalene                       | ND              | 280           | ug/kg |
|                                   | PERCENT         | RECOVERY      |       |
| <u>SURROGATE</u>                  | <u>RECOVERY</u> | <u>LIMITS</u> |       |
| Dibromofluoromethane              | 102             | (44 - 142)    |       |
| 4-Bromofluorobenzene              | 103             | (41 - 152)    |       |
| 1,2-Dichloroethane-d4             | 103             | (43 - 147)    |       |
| Toluene-d8                        | 110             | (47 - 145)    |       |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-18-12.5

GC/MS Volatiles

Lot-Sample #: G5F160160-009 Work Order #: HDP6A1AC Matrix: SOLID  
 Date Sampled: 06/14/05 Date Received: 06/16/05  
 Prep Date: 06/17/05 Analysis Date: 06/17/05  
 Prep Batch #: 5171576  
 Dilution Factor: 0.86  
 % Moisture: 20 Method: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |          |
|-----------------------------------|----------|------------|----------|
|                                   |          | LIMIT      | UNITS    |
| Xylenes (total)                   | ND       | 270        | ug/kg    |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 540        | ug/kg    |
| Benzene                           | ND       | 32         | ug/kg    |
| Toluene                           | ND       | 270        | ug/kg    |
| Ethylbenzene                      | ND       | 270        | ug/kg    |
| Naphthalene                       | ND       | 270        | ug/kg    |
|                                   |          | PERCENT    | RECOVERY |
| SURROGATE                         | RECOVERY | LIMITS     |          |
| Dibromofluoromethane              | 98       | (44 - 142) |          |
| 4-Bromofluorobenzene              | 104      | (41 - 152) |          |
| 1,2-Dichloroethane-d4             | 98       | (43 - 147) |          |
| Toluene-d8                        | 107      | (47 - 145) |          |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: SB-18-20

GC/MS Volatiles

Lot-Sample #...: G5F160160-010    Work Order #...: HDP6C1AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/18/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.87  
 % Moisture.....: 21    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | ND            | 270                    | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 550                    | ug/kg        |
| Benzene                           | ND            | 33                     | ug/kg        |
| Toluene                           | ND            | 270                    | ug/kg        |
| Ethylbenzene                      | ND            | 270                    | ug/kg        |
| Naphthalene                       | ND            | 270                    | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 98                      | (44 - 142)             |
| 4-Bromofluorobenzene  | 99                      | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 97                      | (43 - 147)             |
| Toluene-d8            | 112                     | (47 - 145)             |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-60-5

GC/MS Volatiles

Lot-Sample #...: G5F160160-011    Work Order #...: HDP6D1AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/18/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.94  
 % Moisture.....: 13    Method.....: SW846 8260B

| PARAMETER                      | RESULT | REPORTING LIMIT | UNITS |
|--------------------------------|--------|-----------------|-------|
| Xylenes (total)                | ND     | 270             | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND     | 540             | ug/kg |
| Benzene                        | ND     | 33              | ug/kg |
| Toluene                        | ND     | 270             | ug/kg |
| Ethylbenzene                   | ND     | 270             | ug/kg |
| Naphthalene                    | ND     | 270             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 96               | (44 - 142)      |
| 4-Bromofluorobenzene  | 102              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 96               | (43 - 147)      |
| Toluene-d8            | 108              | (47 - 145)      |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: MW-60-9.5

GC/MS Volatiles

Lot-Sample #...: G5F160160-012    Work Order #...: HDP6E1AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/18/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.91  
 % Moisture.....: 13    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS |
|-----------------------------------|--------|--------------------|-------|
| Xylenes (total)                   | 660    | 260                | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 520                | ug/kg |
| Benzene                           | 170    | 31                 | ug/kg |
| Toluene                           | ND     | 260                | ug/kg |
| Ethylbenzene                      | 260    | 260                | ug/kg |
| Naphthalene                       | ND     | 260                | ug/kg |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 100                 | (44 - 142)         |
| 4-Bromofluorobenzene  | 101                 | (41 - 152)         |
| 1,2-Dichloroethane-d4 | 98                  | (43 - 147)         |
| Toluene-d8            | 110                 | (47 - 145)         |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-60-11

GC/MS Volatiles

Lot-Sample #...: G5F160160-013    Work Order #...: HDP6F1AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/18/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 1.21  
 ‡ Moisture.....: 15    Method.....: SW846 8260B

| PARAMETER                      | RESULT | REPORTING LIMIT | UNITS |
|--------------------------------|--------|-----------------|-------|
| Xylenes (total)                | 2100   | 360             | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND     | 710             | ug/kg |
| Benzene                        | 1000   | 43              | ug/kg |
| Toluene                        | 110 J  | 360             | ug/kg |
| Ethylbenzene                   | 2800   | 360             | ug/kg |
| Naphthalene                    | 130 J  | 360             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 98               | (44 - 142)      |
| 4-Bromofluorobenzene  | 106              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 100              | (43 - 147)      |
| Toluene-d8            | 110              | (47 - 145)      |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-60-12.5

GC/MS Volatiles

Lot-Sample #...: G5F160160-014    Work Order #...: HDP6H1AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/20/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 40.51  
 % Moisture.....: 16    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING LIMIT | UNITS |
|-----------------------------------|----------|-----------------|-------|
| <b>Xylenes (total)</b>            | 370000 Q | 12000           | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 24000           | ug/kg |
| <b>Benzene</b>                    | 5600     | 1400            | ug/kg |
| <b>Toluene</b>                    | 77000    | 12000           | ug/kg |
| <b>Ethylbenzene</b>               | 63000    | 12000           | ug/kg |
| <b>Naphthalene</b>                | 29000    | 12000           | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 0.0 SRD          | (44 - 142)      |
| 4-Bromofluorobenzene  | 0.0 SRD          | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 0.0 SRD          | (43 - 147)      |
| Toluene-d8            | 0.0 SRD          | (47 - 145)      |

**NOTE(S):**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
 Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: MW-60-14

GC/MS Volatiles

Lot-Sample #...: G5F160160-015    Work Order #...: HDP6JLAC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/20/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 345.3  
 % Moisture.....: 18    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | 980000 Q      | 100000                 | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 210000                 | ug/kg        |
| Benzene                           | 65000         | 13000                  | ug/kg        |
| Toluene                           | 380000        | 100000                 | ug/kg        |
| Ethylbenzene                      | 190000        | 100000                 | ug/kg        |
| Naphthalene                       | 67000 J       | 100000                 | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 0.0 SRD                 | (44 - 142)             |
| 4-Bromofluorobenzene  | 0.0 SRD                 | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 0.0 SRD                 | (43 - 147)             |
| Toluene-d8            | 0.0 SRD                 | (47 - 145)             |

**NOTE(S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-60-15.5

GC/MS Volatiles

Lot-Sample #...: G5F160160-016    Work Order #...: HDP6L1AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/21/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.8  
 % Moisture.....: 17    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING LIMIT | UNITS |
|-----------------------------------|--------|-----------------|-------|
| Xylenes (total)                   | 1200   | 240             | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 480             | ug/kg |
| Benzene                           | 370    | 29              | ug/kg |
| Toluene                           | 290    | 240             | ug/kg |
| Ethylbenzene                      | 300    | 240             | ug/kg |
| Naphthalene                       | 110 J  | 240             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 103              | (44 - 142)      |
| 4-Bromofluorobenzene  | 103              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 104              | (43 - 147)      |
| Toluene-d8            | 113              | (47 - 145)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-60-20

GC/MS Volatiles

Lot-Sample #...: G5F160160-017    Work Order #...: HDP6N1AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/21/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 2.25  
 % Moisture.....: 73    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|------------------------|--------------|
| Xylenes (total)                   | 2400          | 2100                   | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 4200                   | ug/kg        |
| Benzene                           | 520           | 250                    | ug/kg        |
| Toluene                           | 2200          | 2100                   | ug/kg        |
| Ethylbenzene                      | 560 J         | 2100                   | ug/kg        |
| Naphthalene                       | ND            | 2100                   | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 102                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 101                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 97                      | (43 - 147)             |
| Toluene-d8            | 111                     | (47 - 145)             |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-59-5

GC/MS Volatiles

Lot-Sample #...: G5F160160-018    Work Order #...: HDP6PLAC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/21/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.95  
 % Moisture.....: 17    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING LIMIT | UNITS |
|-----------------------------------|--------|-----------------|-------|
| Xylenes (total)                   | ND     | 290             | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 570             | ug/kg |
| Benzene                           | ND     | 34              | ug/kg |
| Toluene                           | ND     | 290             | ug/kg |
| Ethylbenzene                      | ND     | 290             | ug/kg |
| Naphthalene                       | ND     | 290             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 100              | (44 - 142)      |
| 4-Bromofluorobenzene  | 99               | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 99               | (43 - 147)      |
| Toluene-d8            | 110              | (47 - 145)      |

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-59-9.5

GC/MS Volatiles

Lot-Sample #...: G5F160160-019    Work Order #...: HDP6Q1AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/21/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.82  
 % Moisture.....: 47    Method.....: SW846 8260B

| PARAMETER                         | RESULT   | REPORTING  |       |
|-----------------------------------|----------|------------|-------|
|                                   |          | LIMIT      | UNITS |
| Xylenes (total)                   | ND       | 390        | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND       | 780        | ug/kg |
| Benzene                           | 55       | 47         | ug/kg |
| Toluene                           | ND       | 390        | ug/kg |
| Ethylbenzene                      | ND       | 390        | ug/kg |
| Naphthalene                       | ND       | 390        | ug/kg |
|                                   | PERCENT  | RECOVERY   |       |
| SURROGATE                         | RECOVERY | LIMITS     |       |
| Dibromofluoromethane              | 97       | (44 - 142) |       |
| 4-Bromofluorobenzene              | 104      | (41 - 152) |       |
| 1,2-Dichloroethane-d4             | 99       | (43 - 147) |       |
| Toluene-d8                        | 109      | (47 - 145) |       |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.



STL SEATTLE

Client Sample ID: MW-59-11

GC/MS Volatiles

Lot-Sample #...: G5F160160-020    Work Order #...: HDP6R1AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/22/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 0.93  
 ‡ Moisture.....: 18    Method.....: SW846 8260B

| PARAMETER                      | RESULT | REPORTING LIMIT | UNITS |
|--------------------------------|--------|-----------------|-------|
| Xylenes (total)                | 540    | 280             | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND     | 560             | ug/kg |
| Benzene                        | 57     | 34              | ug/kg |
| Toluene                        | 220 J  | 280             | ug/kg |
| Ethylbenzene                   | 93 J   | 280             | ug/kg |
| Naphthalene                    | 220 J  | 280             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 91               | (44 - 142)      |
| 4-Bromofluorobenzene  | 101              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 92               | (43 - 147)      |
| Toluene-d8            | 105              | (47 - 145)      |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-59-12.5

GC/MS Volatiles

Lot-Sample #: G5F160160-021 Work Order #: HDP6T1AC Matrix: SOLID  
 Date Sampled: 06/14/05 Date Received: 06/16/05  
 Prep Date: 06/17/05 Analysis Date: 06/17/05  
 Prep Batch #: 5171577  
 Dilution Factor: 0.8  
 % Moisture: 21 Method: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 130 J  | 250       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 510       | ug/kg |
| Benzene                           | ND     | 30        | ug/kg |
| Toluene                           | ND     | 250       | ug/kg |
| Ethylbenzene                      | ND     | 250       | ug/kg |
| Naphthalene                       | ND     | 250       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 96       | (44 - 142) |
| 4-Bromofluorobenzene  | 109      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 98       | (43 - 147) |
| Toluene-d8            | 111      | (47 - 145) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-59-14

GC/MS Volatiles

Lot-Sample #....: G5F160160-022    Work Order #....: HDP6V1AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/17/05  
 Prep Batch #....: 5171577  
 Dilution Factor: 0.88  
 % Moisture.....: 21    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING |       |
|-----------------------------------|--------|-----------|-------|
|                                   |        | LIMIT     | UNITS |
| Xylenes (total)                   | 560    | 280       | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 560       | ug/kg |
| Benzene                           | 1200   | 33        | ug/kg |
| Toluene                           | ND     | 280       | ug/kg |
| Ethylbenzene                      | 2900   | 280       | ug/kg |
| Naphthalene                       | 1100   | 280       | ug/kg |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 92       | (44 - 142) |
| 4-Bromofluorobenzene  | 106      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 97       | (43 - 147) |
| Toluene-d8            | 108      | (47 - 145) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

STL SEATTLE

Client Sample ID: MW-59-15.5

GC/MS Volatiles

Lot-Sample #...: G5F160160-023    Work Order #...: HDP611AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/17/05  
 Prep Batch #...: 5171577  
 Dilution Factor: 0.91  
 % Moisture.....: 20    Method.....: SW846 8260B

| PARAMETER                         | RESULT | REPORTING LIMIT | UNITS |
|-----------------------------------|--------|-----------------|-------|
| Xylenes (total)                   | 130 J  | 280             | ug/kg |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 570             | ug/kg |
| Benzene                           | 920    | 34              | ug/kg |
| Toluene                           | ND     | 280             | ug/kg |
| Ethylbenzene                      | 3600   | 280             | ug/kg |
| Naphthalene                       | 3900   | 280             | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 92               | (44 - 142)      |
| 4-Bromofluorobenzene  | 109              | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 90               | (43 - 147)      |
| Toluene-d8            | 116              | (47 - 145)      |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

STL SEATTLE

Client Sample ID: MW-59-17

GC/MS Volatiles

Lot-Sample #...: G5F160160-024 Work Order #...: HDP621AC Matrix.....: SOLID  
 Date Sampled...: 06/14/05 Date Received...: 06/16/05  
 Prep Date.....: 06/17/05 Analysis Date...: 06/20/05  
 Prep Batch #...: 5171577  
 Dilution Factor: 4.13  
 % Moisture.....: 21 Method.....: SW846 8260B

| PARAMETER                      | RESULT  | REPORTING LIMIT | UNITS |
|--------------------------------|---------|-----------------|-------|
| Xylenes (total)                | 16000 Q | 1300            | ug/kg |
| Methyl tert-butyl ether (MTBE) | ND      | 2600            | ug/kg |
| Benzene                        | 1700    | 160             | ug/kg |
| Toluene                        | ND      | 1300            | ug/kg |
| Ethylbenzene                   | 7000    | 1300            | ug/kg |
| Naphthalene                    | 3800    | 1300            | ug/kg |

| SURROGATE             | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|------------------|-----------------|
| Dibromofluoromethane  | 87               | (44 - 142)      |
| 4-Bromofluorobenzene  | 96               | (41 - 152)      |
| 1,2-Dichloroethane-d4 | 101              | (43 - 147)      |
| Toluene-d8            | 102              | (47 - 145)      |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.  
 Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

STL SEATTLE

Client Sample ID: MW-59-20

GC/MS Volatiles

Lot-Sample #...: G5F160160-025    Work Order #...: HDP631AC    Matrix.....: SOLID  
 Date Sampled...: 06/14/05    Date Received...: 06/16/05  
 Prep Date.....: 06/17/05    Analysis Date...: 06/20/05  
 Prep Batch #...: 5171577  
 Dilution Factor: 1.01  
 % Moisture.....: 25    Method.....: SW846 8260B

| <u>PARAMETER</u>                  | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------------------|---------------|----------------------------|--------------|
| Xylenes (total)                   | ND            | 340                        | ug/kg        |
| Methyl tert-butyl ether<br>(MTBE) | ND            | 670                        | ug/kg        |
| Benzene                           | 53            | 40                         | ug/kg        |
| Toluene                           | ND            | 340                        | ug/kg        |
| Ethylbenzene                      | ND            | 340                        | ug/kg        |
| Naphthalene                       | ND            | 340                        | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| Dibromofluoromethane  | 101                         | (44 - 142)                 |
| 4-Bromofluorobenzene  | 99                          | (41 - 152)                 |
| 1,2-Dichloroethane-d4 | 105                         | (43 - 147)                 |
| Toluene-d8            | 107                         | (47 - 145)                 |

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

# QC DATA ASSOCIATION SUMMARY

G5F160160

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 002            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 003            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 004            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 005            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 006            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 007            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 008            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 009            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 010            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 011            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G5F160160

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 012            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 013            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 014            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 015            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 016            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 017            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 018            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 019            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 020            | SOLID         | ASTM D 2216-90               |                          | 5171629                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171576                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173429                 |                |
| 021            | SOLID         | ASTM D 2216-90               |                          | 5171630                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171577                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173447                 |                |
| 022            | SOLID         | ASTM D 2216-90               |                          | 5171630                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171577                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173447                 |                |

(Continued on next page)



# QC DATA ASSOCIATION SUMMARY

G5F160160

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 023            | SOLID         | ASTM D 2216-90               |                          | 5171630                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171577                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173447                 |                |
| 024            | SOLID         | ASTM D 2216-90               |                          | 5171630                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171577                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173447                 |                |
| 025            | SOLID         | ASTM D 2216-90               |                          | 5171630                 |                |
|                | SOLID         | SW846 8260B                  |                          | 5171577                 |                |
|                | SOLID         | NWTPH NWTPH-Gx               |                          | 5173447                 |                |

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G5F160160      Work Order #...: HD1NA1AA      Matrix.....: SOLID  
 MB Lot-Sample #: G5F200000-576  
 Prep Date.....: 06/17/05  
 Analysis Date...: 06/17/05      Prep Batch #...: 5171576  
 Dilution Factor: 1

| PARAMETER                         | RESULT | REPORTING |       | METHOD      |
|-----------------------------------|--------|-----------|-------|-------------|
|                                   |        | LIMIT     | UNITS |             |
| Xylenes (total)                   | ND     | 250       | ug/kg | SW846 8260B |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 500       | ug/kg | SW846 8260B |
| Benzene                           | ND     | 30        | ug/kg | SW846 8260B |
| Toluene                           | ND     | 250       | ug/kg | SW846 8260B |
| Ethylbenzene                      | ND     | 250       | ug/kg | SW846 8260B |
| Naphthalene                       | ND     | 250       | ug/kg | SW846 8260B |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 104      | (44 - 142) |
| 4-Bromofluorobenzene  | 104      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 102      | (43 - 147) |
| Toluene-d8            | 111      | (47 - 145) |

**NOTE (S) :**

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G5F160160      Work Order #...: HD1NE1AA      Matrix.....: SOLID  
 MB Lot-Sample #: G5F200000-577  
 Prep Date.....: 06/17/05  
 Analysis Date..: 06/17/05      Prep Batch #...: 5171577  
 Dilution Factor: 1

| PARAMETER                         | RESULT | REPORTING |       | METHOD      |
|-----------------------------------|--------|-----------|-------|-------------|
|                                   |        | LIMIT     | UNITS |             |
| Xylenes (total)                   | ND     | 250       | ug/kg | SW846 8260B |
| Methyl tert-butyl ether<br>(MTBE) | ND     | 500       | ug/kg | SW846 8260B |
| Benzene                           | ND     | 30        | ug/kg | SW846 8260B |
| Toluene                           | ND     | 250       | ug/kg | SW846 8260B |
| Ethylbenzene                      | ND     | 250       | ug/kg | SW846 8260B |
| Naphthalene                       | ND     | 250       | ug/kg | SW846 8260B |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 96       | (44 - 142) |
| 4-Bromofluorobenzene  | 107      | (41 - 152) |
| 1,2-Dichloroethane-d4 | 96       | (43 - 147) |
| Toluene-d8            | 108      | (47 - 145) |

**NOTE(S):**

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

**LABORATORY CONTROL SAMPLE DATA REPORT**

**GC/MS Volatiles**

Client Lot #...: G5F160160      Work Order #...: HD1NA1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F200000-576      HD1NA1AD-LCSD  
 Prep Date.....: 06/17/05      Analysis Date...: 06/17/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 1

| <u>PARAMETER</u>                  | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RPD</u> | <u>METHOD</u> |
|-----------------------------------|---------------------|------------------------|--------------|-------------------------|------------|---------------|
| Methyl tert-butyl ether<br>(MTBE) | 1000                | 960                    | ug/kg        | 96                      |            | SW846 8260B   |
|                                   | 1000                | 989                    | ug/kg        | 99                      | 3.0        | SW846 8260B   |
| Benzene                           | 1000                | 1010                   | ug/kg        | 101                     |            | SW846 8260B   |
|                                   | 1000                | 987                    | ug/kg        | 99                      | 2.0        | SW846 8260B   |
| Toluene                           | 1000                | 1070                   | ug/kg        | 107                     |            | SW846 8260B   |
|                                   | 1000                | 1040                   | ug/kg        | 104                     | 2.5        | SW846 8260B   |
| Ethylbenzene                      | 1000                | 1070                   | ug/kg        | 107                     |            | SW846 8260B   |
|                                   | 1000                | 1070                   | ug/kg        | 107                     | 0.28       | SW846 8260B   |
| Naphthalene                       | 1000                | 1050                   | ug/kg        | 105                     |            | SW846 8260B   |
|                                   | 1000                | 1100                   | ug/kg        | 110                     | 5.1        | SW846 8260B   |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 103                     | (44 - 142)             |
|                       | 100                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 102                     | (41 - 152)             |
|                       | 104                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 96                      | (43 - 147)             |
|                       | 96                      | (43 - 147)             |
| Toluene-d8            | 109                     | (47 - 145)             |
|                       | 109                     | (47 - 145)             |

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

Client Lot #...: G5F160160      Work Order #...: HD1NALAC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: G5F200000-576      HD1NALAD-LCSD  
 Prep Date.....: 06/17/05      Analysis Date...: 06/17/05  
 Prep Batch #...: 5171576  
 Dilution Factor: 1

| <u>PARAMETER</u>                  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|-----------------------------------|-------------------------|------------------------|------------|-------------------|---------------|
| Methyl tert-butyl ether<br>(MTBE) | 96                      | (70 - 120)             |            |                   | SW846 8260B   |
|                                   | 99                      | (70 - 120)             | 3.0        | (0-36)            | SW846 8260B   |
| Benzene                           | 101                     | (76 - 120)             |            |                   | SW846 8260B   |
|                                   | 99                      | (76 - 120)             | 2.0        | (0-24)            | SW846 8260B   |
| Toluene                           | 107                     | (79 - 120)             |            |                   | SW846 8260B   |
|                                   | 104                     | (79 - 120)             | 2.5        | (0-17)            | SW846 8260B   |
| Ethylbenzene                      | 107                     | (79 - 120)             |            |                   | SW846 8260B   |
|                                   | 107                     | (79 - 120)             | 0.28       | (0-20)            | SW846 8260B   |
| Naphthalene                       | 105                     | (64 - 133)             |            |                   | SW846 8260B   |
|                                   | 110                     | (64 - 133)             | 5.1        | (0-47)            | SW846 8260B   |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| Dibromofluoromethane  | 103                     | (44 - 142)             |
|                       | 100                     | (44 - 142)             |
| 4-Bromofluorobenzene  | 102                     | (41 - 152)             |
|                       | 104                     | (41 - 152)             |
| 1,2-Dichloroethane-d4 | 96                      | (43 - 147)             |
|                       | 96                      | (43 - 147)             |
| Toluene-d8            | 109                     | (47 - 145)             |
|                       | 109                     | (47 - 145)             |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

**APPENDIX D**

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**GROUNDWATER ANALYTICAL LABORATORY REPORTS AND  
CHAIN-OF-CUSTODY DOCUMENTATION**



# STL

STL Seattle  
5755 8<sup>th</sup> Street East  
Tacoma, WA 98424

Tel: 253 922 2310  
Fax: 253 922 5047  
[www.stl-inc.com](http://www.stl-inc.com)

## TRANSMITTAL MEMORANDUM

DATE: June 8, 2005

TO: Eric Larsen  
Delta Environmental  
17720 NE 65th Street Ste 201  
Redmond, WA 98052

PROJECT: WA255-3506-1/255353 Seattle (Westlake)

REPORT NUMBER: 128177

TOTAL NUMBER OF PAGES: \_\_\_\_\_

Enclosed are the test results for thirteen samples received at STL Seattle on June 2, 2005.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

A handwritten signature in black ink that reads "Tom Coyne". The signature is fluid and cursive, with a long, sweeping underline that extends to the right.

Tom Coyne  
Project Manager

---

STL Seattle is a part of Severn Trent Laboratories, Inc.

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# STL Seattle

## Sample Identification:

| <u>Lab. No.</u> | <u>Client ID</u> | <u>Date/Time Sampled</u> | <u>Matrix</u> |
|-----------------|------------------|--------------------------|---------------|
| 128177-1        | MW-33            | 06-01-05 10:15           | Liquid        |
| 128177-2        | MW-50            | 06-01-05 10:35           | Liquid        |
| 128177-3        | MW-51            | 06-01-05 12:00           | Liquid        |
| 128177-4        | MW-45            | 06-01-05 11:00           | Liquid        |
| 128177-5        | MW-3A            | 06-01-05 11:40           | Liquid        |
| 128177-6        | MW-35            | 06-01-05 11:20           | Liquid        |
| 128177-7        | MW-52            | 06-01-05 12:45           | Liquid        |
| 128177-8        | MW-32A           | 06-01-05 13:30           | Liquid        |
| 128177-9        | MW-34            | 06-01-05 12:50           | Liquid        |
| 128177-10       | MW-53            | 06-01-05 12:25           | Liquid        |
| 128177-11       | MW-47            | 06-01-05 13:00           | Liquid        |
| 128177-12       | MW-48            | 06-01-05 11:25           | Liquid        |
| 128177-13       | SMW-3            | 06-01-05 14:00           | Liquid        |

---

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# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-33               |
| Lab ID:         | 128177-01           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 95.7       |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 96.1       |       | 80              | 120  |
| Bromofluorobenzene       | 95.2       |       | 80              | 120  |
| Pentafluorobenzene       | 89.2       |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | 0.00203       | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-50               |
| Lab ID:         | 128177-02           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 108        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 111        |       | 80              | 120  |
| Bromofluorobenzene       | 112        |       | 80              | 120  |
| Pentafluorobenzene       | 131        | X9    | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 1.71          | 0.1   |       |
| MTBE                | 0.00801       | 0.001 |       |
| Benzene             | 0.0203        | 0.001 |       |
| Toluene             | 0.0107        | 0.001 |       |
| Ethylbenzene        | 0.0423        | 0.001 |       |
| m&p-Xylene          | 0.065         | 0.002 |       |
| o-Xylene            | 0.0197        | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-51               |
| Lab ID:         | 128177-03           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 95.1       |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 96.3       |       | 80              | 120  |
| Bromofluorobenzene       | 96         |       | 80              | 120  |
| Pentafluorobenzene       | 97.1       |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-45               |
| Lab ID:         | 128177-04           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 101        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 99.7       |       | 80              | 120  |
| Bromofluorobenzene       | 99.3       |       | 80              | 120  |
| Pentafluorobenzene       | 89.6       |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.793         | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | 0.0171        | 0.001 |       |
| Toluene             | 0.0379        | 0.001 |       |
| Ethylbenzene        | 0.0139        | 0.001 |       |
| m&p-Xylene          | 0.0571        | 0.002 |       |
| o-Xylene            | 0.0267        | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-3A               |
| Lab ID:         | 128177-05           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 102        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 99.2       |       | 80              | 120  |
| Bromofluorobenzene       | 99.6       |       | 80              | 120  |
| Pentafluorobenzene       | 108        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 1.03          | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | 0.00521       | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | 0.0278        | 0.001 |       |
| m&p-Xylene          | 0.0497        | 0.002 |       |
| o-Xylene            | 0.0163        | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-35               |
| Lab ID:         | 128177-06           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 105        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 112        |       | 80              | 120  |
| Bromofluorobenzene       | 111        |       | 80              | 120  |
| Pentafluorobenzene       | 112        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.334         | 0.1   |       |
| MTBE                | 0.00121       | 0.001 |       |
| Benzene             | 0.00706       | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | 0.00211       | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-52               |
| Lab ID:         | 128177-07           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 113        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 119        |       | 80              | 120  |
| Bromofluorobenzene       | 118        |       | 80              | 120  |
| Pentafluorobenzene       | 119        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.503         | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | 0.0283        | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | 0.019         | 0.001 |       |
| m&p-Xylene          | 0.0057        | 0.002 |       |
| o-Xylene            | 0.00136       | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-32A              |
| Lab ID:         | 128177-08           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 106        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 110        |       | 80              | 120  |
| Bromofluorobenzene       | 109        |       | 80              | 120  |
| Pentafluorobenzene       | 102        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.205         | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | 0.0132        | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | 0.00555       | 0.001 |       |
| m&p-Xylene          | 0.00355       | 0.002 |       |
| o-Xylene            | 0.00261       | 0.001 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-34               |
| Lab ID:         | 128177-09           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 105        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 110        |       | 80              | 120  |
| Bromofluorobenzene       | 110        |       | 80              | 120  |
| Pentafluorobenzene       | 117        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.143         | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | 0.00534       | 0.001 |       |
| m&p-Xylene          | 0.00487       | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-53               |
| Lab ID:         | 128177-10           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 112        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 101        |       | 80              | 120  |
| Bromofluorobenzene       | 102        |       | 80              | 120  |
| Pentafluorobenzene       | 93.1       |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 3.12          | 0.1   |       |
| MTBE                | 0.00188       | 0.001 |       |
| Benzene             | 0.205         | 0.001 |       |
| Toluene             | 0.00598       | 0.001 |       |
| Ethylbenzene        | 0.12          | 0.001 |       |
| m&p-Xylene          | 0.213         | 0.002 |       |
| o-Xylene            | 0.0239        | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-47               |
| Lab ID:         | 128177-11           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 110        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 118        |       | 80              | 120  |
| Bromofluorobenzene       | 117        |       | 80              | 120  |
| Pentafluorobenzene       | 121        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.217         | 0.1   |       |
| MTBE                | 0.0013        | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-48               |
| Lab ID:         | 128177-12           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 105        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 108        |       | 80              | 120  |
| Bromofluorobenzene       | 107        |       | 80              | 120  |
| Pentafluorobenzene       | 118        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.357         | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SMW-3               |
| Lab ID:         | 128177-13           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/2/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 111        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 119        |       | 80              | 120  |
| Bromofluorobenzene       | 118        |       | 80              | 120  |
| Pentafluorobenzene       | 119        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-33               |
| Lab ID:         | 128177-01           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 79.9       |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.262 |       |
| Motor Oil | ND            | 0.524 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-50               |
| Lab ID:         | 128177-02           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 74.6       |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | 0.528         | 0.252 | X1    |
| Motor Oil | ND            | 0.503 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-51               |
| Lab ID:         | 128177-03           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 76.1       |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL   | Flags |
|-----------|---------------|------|-------|
| #2 Diesel | 0.408         | 0.26 | X2    |
| Motor Oil | ND            | 0.52 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-45               |
| Lab ID:         | 128177-04           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 41.2       | X9    | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | 0.283         | 0.245 | X2    |
| Motor Oil | ND            | 0.491 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-3A               |
| Lab ID:         | 128177-05           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 32.3       | X9    | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.241 |       |
| Motor Oil | ND            | 0.483 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-35               |
| Lab ID:         | 128177-06           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 29.7       | X9    | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.238 |       |
| Motor Oil | ND            | 0.475 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-52               |
| Lab ID:         | 128177-07           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 28.9       | X9    | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.249 |       |
| Motor Oil | ND            | 0.498 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-32A              |
| Lab ID:         | 128177-08           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 75.8       |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.237 |       |
| Motor Oil | ND            | 0.473 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-34               |
| Lab ID:         | 128177-09           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 82.8       |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.237 |       |
| Motor Oil | ND            | 0.474 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-53               |
| Lab ID:         | 128177-10           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 52.3       |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | 0.381         | 0.245 | X1    |
| Motor Oil | 0.493         | 0.49  | X2    |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-47               |
| Lab ID:         | 128177-11           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 69         |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.252 |       |
| Motor Oil | 0.616         | 0.505 | X2    |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-48               |
| Lab ID:         | 128177-12           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 68.5       |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | 0.294         | 0.247 | X1    |
| Motor Oil | ND            | 0.494 |       |

X1 - Chromatogram suggests this might be overlap from gasoline range

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | SMW-3               |
| Lab ID:         | 128177-13           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/6/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 61.1       |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.249 |       |
| Motor Oil | ND            | 0.498 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - GB5167 |
| Date Received:  | -                     |
| Date Prepared:  | 6/2/2005              |
| Date Analyzed:  | 6/2/2005              |
| % Solids        | -                     |
| Dilution Factor | 1                     |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 103        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 113        |       | 80              | 120  |
| Bromofluorobenzene       | 114        |       | 80              | 120  |
| Pentafluorobenzene       | 109        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: GB5167  
Date Prepared: 6/2/2005  
Date Analyzed: 6/2/2005  
QC Batch ID: GB5167

GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| <b>Compound Name</b> | <b>Blank Result (mg/L)</b> | <b>Spike Amount (mg/L)</b> | <b>BS Result (mg/L)</b> | <b>BS % Rec.</b> | <b>BSD Result (mg/L)</b> | <b>BSD % Rec.</b> | <b>RPD</b> | <b>Flag</b> |
|----------------------|----------------------------|----------------------------|-------------------------|------------------|--------------------------|-------------------|------------|-------------|
| Gasoline By NWTPH-G  | 0                          | 1.25                       | 1.27                    | 101              | 1.32                     | 105               | 3.9        |             |
| Benzene              | 0                          | 0.025                      | 0.0277                  | 111              | 0.027                    | 108               | -2.7       |             |
| Toluene              | 0                          | 0.025                      | 0.027                   | 108              | 0.0262                   | 105               | -2.8       |             |
| Ethylbenzene         | 0                          | 0.025                      | 0.0277                  | 111              | 0.0269                   | 108               | -2.7       |             |
| m&p-Xylene           | 0                          | 0.05                       | 0.0582                  | 116              | 0.0568                   | 114               | -1.7       |             |
| o-Xylene             | 0                          | 0.025                      | 0.0272                  | 109              | 0.0265                   | 106               | -2.8       |             |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DW0780 |
| Date Received:  | -                     |
| Date Prepared:  | 6/6/2005              |
| Date Analyzed:  | 6/7/2005              |
| % Solids        | -                     |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 84         |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL   | Flags |
|-----------|---------------|------|-------|
| #2 Diesel | ND            | 0.25 |       |
| Motor Oil | ND            | 0.5  |       |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DW0780  
Date Prepared: 6/6/2005  
Date Analyzed: 6/7/2005  
QC Batch ID: DW0780

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Compound Name | Blank Result (mg/L) | Spike Amount (mg/L) | BS Result (mg/L) | BS % Rec. | BSD Result (mg/L) | BSD % Rec. | RPD | Flag |
|---------------|---------------------|---------------------|------------------|-----------|-------------------|------------|-----|------|
| #2 Diesel     | 0.037               | 5                   | 4.45             | 88.2      | 4.59              | 91.1       | 3.2 |      |
| Motor Oil     | 0                   | 5                   | 5.7              | 114       | 5.78              | 116        | 1.7 |      |

**DATA QUALIFIERS AND ABBREVIATIONS**

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- C3: Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be ≤ 30%.
- C4: Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The original analysis was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- RL: Reporting Limit
- N: See analytical narrative
- ND: Not Detected
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be \_\_\_\_\_.
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.

5-0  
128177

STL Seattle  
5755 8th Street E.  
Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.stl-inc.com

**Chain of  
Custody Record**

STL8274-560 (12/02)

**Client** Conroy Phillips Co Delta Env  
**Address** 17720 NE 65th St, Suite 201  
**City** Redmond **State** WA **Zip Code** 98052  
**Project Name and Location (State)** WA255-3506-1 / 255353 Seattle (Westlake)  
**Contract/Purchase Order/Quote No.** WD\*: 1396DEL006

**Project Manager** Eric Larsen *elarsen@deltainc.com*  
**Telephone Number (Area Code)/Fax Number** 425-558-0134  
**Site Contact** **Lab Contact** Tom Coyner  
**Mgr. Kifley**  
**Carrier/Waybill Number**

**Date** 6-1-05 **Chain of Custody Number** 12362  
**Page** 1 **of** 2

**Special Instructions/Conditions of Receipt**

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date   | Time  | Matrix |     |         |       |      | Containers & Preservatives |      |           |   |  | Analysis (Attach list if more space is needed) |   |
|--|--------|-------|--------|-----|---------|-------|------|----------------------------|------|-----------|---|--|--|---|
|  |        |       | Aq     | Sol | Unpres. | H2SO4 | HNO3 | HCl                        | NaOH | ZnAc/NaOH |   |  |  |   |
| MW-33  | 6-1-05 | 10:15 | X      |     |         |       |      |                            |      |           | 4 |  |  | X NWTPH-CX<br>X BTEX (8260)<br>X NWTPH-DX<br>Cleaning |
| MW-50  |        | 10:35 |        |     |         |       |      |                            |      |           |   |  |  |   |
| MW-51  |        | 12:00 |        |     |         |       |      |                            |      |           |   |  |  |   |
| MW-45  |        | 11:00 |        |     |         |       |      |                            |      |           |   |  |  |   |
| MW-3A  |        | 11:40 |        |     |         |       |      |                            |      |           |   |  |  |   |
| MW-35  |        | 11:20 |        |     |         |       |      |                            |      |           |   |  |  |   |
| MW-52  |        | 12:45 |        |     |         |       |      |                            |      |           |   |  |  |   |
| MW-32A   |        | 13:30 |        |     |         |       |      |                            |      |           |   |  |  |   |
| MW-34  |        | 12:50 |        |     |         |       |      |                            |      |           |   |  |  |   |
| MW-53  |        | 12:25 |        |     |         |       |      |                            |      |           |   |  |  |   |
| MW-47  |        | 13:00 |        |     |         |       |      |                            |      |           |   |  |  |   |
| MW-48  |        | 11:25 |        |     |         |       |      |                            |      |           |   |  |  |   |

**Cooler**  
 Yes  No **Cooler Temp:** \_\_\_\_\_  
**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Sample Disposal  Archive For \_\_\_\_\_ Months  
**Disposal By Lab** \_\_\_\_\_

**Turn Around Time Required (business days)**  
 24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_

**QC Requirements (Specify)**

1. Relinquished By: *Tom E. Broad* Date: 6/2/05 Time: 10:00  
2. Relinquished By: *Jack J. Patten* Date: 6/2/05 Time: 12:35  
3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

1. Received By: *Carl J. Taylor* Date: 6/2/05 Time: 10:25  
2. Received By: *Ruth Johnson* Date: 6/2/05 Time: 12:35  
3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**Comments**  
Please see Dx samples with acid/silica gel cleanup. 2 DAY TAT

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





**Chain of Custody Record**

|  |  |                                  |   |
|--|--|----------------------------------|---|
| Client<br><b>Conoco Phillips c/o Delta Env</b>               | Project Manager<br><b>Eric Larsen</b>                          | Date<br><b>6-1-05</b>            | Chain of Custody Number<br><b>05886</b>   |
| Address<br><b>17720 NE 65th St. Suite 201</b>                | Telephone Number (Area Code)/Fax Number<br><b>425-558-0134</b> | Lab Number                       | Page<br><b>2</b> of <b>2</b>  |
| City<br><b>Redmond</b>                                       | Site Contact<br><b>Mgr. K. Fiey</b>                            | Lab Contact<br><b>Tom Coyner</b> | Analysis (Attach list if more space is needed)  |
| State<br><b>WA</b>   | Zip Code<br><b>98052</b>                                       | Lab Contact<br><b>Tom Coyner</b> | <input checked="" type="checkbox"/> W/TPH-GX<br><input checked="" type="checkbox"/> BTEX (S240)<br><input checked="" type="checkbox"/> W/TPH-DX<br>dump |
| Project Name and Location (State)<br><b>WA255-3506-1</b>     |  |                                  | Special Instructions/<br>Conditions of Receipt  |
| Contract/Purchase Order/Quote No.<br><b>WO #: 1396DEL006</b> |  |                                  |   |

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date   | Time | Matrix | Containers & Preservatives | Analysis  |
|--|--------|------|--------|----------------------------|---|
| S2W-3  | 6-1-05 | 1400 | Air    | 4                          | <input checked="" type="checkbox"/> ZnAc/<br><input checked="" type="checkbox"/> NaOH |
|  |        |      |        |                            |   |
|  |        |      |        |                            |   |
|  |        |      |        |                            |   |

Cooler     No Cooler Temp: \_\_\_\_\_  
 Possible Hazard Identification:  Non-Hazard     Flammable     Skin Irritant     Poison B     Unknown     Sample Disposal     Return To Client     Archive For \_\_\_\_\_ Months  
 Turn Around Time Required (business days):  24 Hours     48 Hours     5 Days     10 Days     15 Days     Other \_\_\_\_\_  
 1. Relinquished By: *Sam E. Brook, Delta*    Date: *6/21/05*    Time: *10:25*  
 2. Relinquished By: *Paula Proter*    Date: *6/22/05*    Time: *12:35*  
 3. Relinquished By: \_\_\_\_\_    Date: \_\_\_\_\_    Time: \_\_\_\_\_  
 Comments: *Please see D8 samples with acid/silica gel cleanup.*  
 DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy  
**2 DAY TAT**  
 (A fee may be assessed if samples are retained longer than 1 month)



# STL

**STL Seattle**  
5755 6<sup>th</sup> Street East  
Tacoma, WA 98424

Tel: 253 922 2310  
Fax: 253 922 5047  
[www.stl-inc.com](http://www.stl-inc.com)

## TRANSMITTAL MEMORANDUM

DATE: June 10, 2005

TO: Eric Larsen  
Delta Environmental  
17720 NE 65th Street Ste 201  
Redmond, WA 98052

PROJECT: WA255-3506-1/255353SEattle(Westlake)

REPORT NUMBER: 128182

TOTAL NUMBER OF PAGES: \_\_\_\_\_

Enclosed are the test results for eight samples received at STL Seattle on June 2, 2005.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

**Nonconformance Narrative:** For NWTPH-DX sample samples 128182-05, 128182-06, 128182-07, and 128182-08 the batch Blank Spike and Blank Spike Duplicate recoveries were less than 10 percent, failing the QC criteria. The Method Blank surrogate failed low. The data for these samples should be considered quantitative information only.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Tom Coyner  
Project Manager

---

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# STL Seattle

## Sample Identification:

| <u>Lab. No.</u> | <u>Client ID</u> | <u>Date/Time Sampled</u> | <u>Matrix</u> |
|-----------------|------------------|--------------------------|---------------|
| 128182-1        | MW-18            | 06-02-05 10:25           | Liquid        |
| 128182-2        | MW-37            | 06-02-05 10:45           | Liquid        |
| 128182-3        | MW-40            | 06-02-05 11:35           | Liquid        |
| 128182-4        | MW-41            | 06-02-05 12:20           | Liquid        |
| 128182-5        | MW-42            | 06-02-05 12:45           | Liquid        |
| 128182-6        | MW-43            | 06-02-05 13:00           | Liquid        |
| 128182-7        | MW-44            | 06-02-05 13:30           | Liquid        |
| 128182-8        | MW-36            | 06-02-05 14:00           | Liquid        |

---

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# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-18               |
| Lab ID:         | 128182-01           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/3/2005            |
| Date Analyzed:  | 6/7/2005            |
| % Solids        | -                   |
| Dilution Factor | 5                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | -          | X8    | 50              | 150  |

| Analyte   | Result | RL   | Flags |
|-----------|--------|------|-------|
|           | (mg/L) |      |       |
| #2 Diesel | 18     | 1.32 | X2    |
| Motor Oil | 28.8   | 2.63 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-37               |
| Lab ID:         | 128182-02           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/3/2005            |
| Date Analyzed:  | 6/6/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 104        |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.238 |       |
| Motor Oil | 0.604         | 0.477 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-40               |
| Lab ID:         | 128182-03           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/3/2005            |
| Date Analyzed:  | 6/6/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 48.4       | X9    | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | 0.692         | 0.253 | X2    |
| Motor Oil | 3.76          | 0.506 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-41               |
| Lab ID:         | 128182-04           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/3/2005            |
| Date Analyzed:  | 6/6/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 103        |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.237 |       |
| Motor Oil | ND            | 0.474 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-42               |
| Lab ID:         | 128182-05           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/3/2005            |
| Date Analyzed:  | 6/6/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 46.6       | N     | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.268 |       |
| Motor Oil | ND            | 0.536 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-43               |
| Lab ID:         | 128182-06           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/3/2005            |
| Date Analyzed:  | 6/6/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 82         |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL   | Flags |
|-----------|---------------|------|-------|
| #2 Diesel | ND            | 0.25 |       |
| Motor Oil | ND            | 0.5  |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-44               |
| Lab ID:         | 128182-07           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/3/2005            |
| Date Analyzed:  | 6/6/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 77.6       |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.252 |       |
| Motor Oil | ND            | 0.503 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-36               |
| Lab ID:         | 128182-08           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/3/2005            |
| Date Analyzed:  | 6/6/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 86.3       |       | 50              | 150  |

| Analyte   | Result (mg/L) | RL    | Flags |
|-----------|---------------|-------|-------|
| #2 Diesel | ND            | 0.254 |       |
| Motor Oil | ND            | 0.508 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DW0778 |
| Date Received:  | -                     |
| Date Prepared:  | 6/3/2005              |
| Date Analyzed:  | 6/6/2005              |
| % Solids        |                       |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 92.3       |       | 50              | 150  |

Sample results are on an as received basis.

| Analyte   | Result (mg/kg) | RL    | Flags |
|-----------|----------------|-------|-------|
| #2 Diesel | ND             | 0.125 |       |
| Motor Oil | ND             | 0.25  |       |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DW0778  
Date Prepared: 6/3/2005  
Date Analyzed: 6/6/2005  
QC Batch ID: DW0778

Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel and Sulfuric Acid Cleanup

| Compound Name | Blank Result (mg/kg) | Spike Amount (mg/kg) | BS Result (mg/kg) | BS % Rec. | BSD Result (mg/kg) | BSD % Rec. | RPD | Flag |
|---------------|----------------------|----------------------|-------------------|-----------|--------------------|------------|-----|------|
| #2 Diesel     | 0.063                | 5                    | 5.23              | 103       | 5.59               | 111        | 7.5 |      |
| Motor Oil     | 0                    | 5                    | 5.8               | 116       | 5.96               | 119        | 2.6 |      |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - DW0779 |
| Date Received:  | -                     |
| Date Prepared:  | 6/3/2005              |
| Date Analyzed:  | 6/6/2005              |
| % Solids        | -                     |
| Dilution Factor | 1                     |

## Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Surrogate   | % Recovery | Flags | Recovery Limits |      |
|-------------|------------|-------|-----------------|------|
|             |            |       | Low             | High |
| o-terphenyl | 4.33       | N     | 50              | 150  |

| Analyte   | Result (mg/L) | RL   | Flags |
|-----------|---------------|------|-------|
| #2 Diesel | ND            | 0.25 |       |
| Motor Oil | ND            | 0.5  |       |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: DW0779  
Date Prepared: 6/3/2005  
Date Analyzed: 6/6/2005  
QC Batch ID: DW0779

### Diesel and Motor Oil by NWTPH-Dx Modified with Silica Gel Cleanup

| Compound Name | Blank Result (mg/L) | Spike Amount (mg/L) | BS Result (mg/L) | BS % Rec. | BSD Result (mg/L) | BSD % Rec. | RPD  | Flag     |
|---------------|---------------------|---------------------|------------------|-----------|-------------------|------------|------|----------|
| #2 Diesel     | 0                   | 5                   | 0.349            | 6.98      | 0.352             | 7.04       | 0.86 | <b>N</b> |
| Motor Oil     | 0                   | 5                   | 0.304            | 6.08      | 0.331             | 6.63       | 8.7  | <b>N</b> |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-18               |
| Lab ID:         | 128182-01           |
| Date Received:  | 6/2/05              |
| Date Prepared:  | 6/2/05              |
| Date Analyzed:  | 6/2/05              |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 99.6       |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 82.7       |       | 80              | 120  |
| Bromofluorobenzene       | 83.8       |       | 80              | 120  |
| Pentafluorobenzene       | 32.2       | X9    | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 6.01          | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | 0.359         | 0.001 | E     |
| Toluene             | 0.4           | 0.001 | E     |
| Ethylbenzene        | 0.0901        | 0.001 |       |
| m&p-Xylene          | 0.477         | 0.002 |       |
| o-Xylene            | 0.226         | 0.001 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-18 - dilution    |
| Lab ID:         | 128182L01           |
| Date Received:  | -                   |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/4/2005            |
| % Solids        | -                   |
| Dilution Factor | 10                  |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 110        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 110        |       | 80              | 120  |
| Bromofluorobenzene       | 113        |       | 80              | 120  |
| Pentafluorobenzene       | 74.5       | X9    | 81              | 126  |

| Analyte             | Result (mg/L) | RL   | Flags |
|---------------------|---------------|------|-------|
| Gasoline By NWTPH-G | 6.6           | 1    |       |
| Benzene             | 0.403         | 0.01 |       |
| Toluene             | 0.434         | 0.01 |       |
| Ethylbenzene        | 0.0919        | 0.01 |       |
| m&p-Xylene          | 0.538         | 0.02 |       |
| o-Xylene            | 0.241         | 0.01 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-37               |
| Lab ID:         | 128182-02           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/3/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 112        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 123        | X9    | 80              | 120  |
| Bromofluorobenzene       | 123        | X9    | 80              | 120  |
| Pentafluorobenzene       | 124        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.137         | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-40               |
| Lab ID:         | 128182-03           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/3/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 109        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 115        |       | 80              | 120  |
| Bromofluorobenzene       | 114        |       | 80              | 120  |
| Pentafluorobenzene       | 117        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.433         | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-41               |
| Lab ID:         | 128182-04           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/3/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 108        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 116        |       | 80              | 120  |
| Bromofluorobenzene       | 115        |       | 80              | 120  |
| Pentafluorobenzene       | 118        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-42               |
| Lab ID:         | 128182-05           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/3/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 111        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 119        |       | 80              | 120  |
| Bromofluorobenzene       | 119        |       | 80              | 120  |
| Pentafluorobenzene       | 147        | X9    | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.198         | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | 0.00467       | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-43               |
| Lab ID:         | 128182-06           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/3/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 113        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 118        |       | 80              | 120  |
| Bromofluorobenzene       | 117        |       | 80              | 120  |
| Pentafluorobenzene       | 120        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | 0.015         | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-44               |
| Lab ID:         | 128182-07           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/3/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 111        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 121        | X9    | 80              | 120  |
| Bromofluorobenzene       | 121        | X9    | 80              | 120  |
| Pentafluorobenzene       | 122        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-36               |
| Lab ID:         | 128182-08           |
| Date Received:  | 6/2/2005            |
| Date Prepared:  | 6/2/2005            |
| Date Analyzed:  | 6/3/2005            |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 108        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 116        |       | 80              | 120  |
| Bromofluorobenzene       | 114        |       | 80              | 120  |
| Pentafluorobenzene       | 116        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |



# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - GB5167 |
| Date Received:  | -                     |
| Date Prepared:  | 6/2/2005              |
| Date Analyzed:  | 6/2/2005              |
| % Solids        | -                     |
| Dilution Factor | 1                     |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 103        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 113        |       | 80              | 120  |
| Bromofluorobenzene       | 114        |       | 80              | 120  |
| Pentafluorobenzene       | 109        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - GB5170 |
| Date Received:  | -                     |
| Date Prepared:  | 6/3/2005              |
| Date Analyzed:  | 6/4/2005              |
| % Solids        | -                     |
| Dilution Factor | 1                     |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 98.4       |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 96         |       | 80              | 120  |
| Bromofluorobenzene       | 98.5       |       | 80              | 120  |
| Pentafluorobenzene       | 91.7       |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: GB5167  
Date Prepared: 6/2/2005  
Date Analyzed: 6/2/2005  
QC Batch ID: GB5167

### GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| Compound Name       | Blank Result (mg/L) | Spike Amount (mg/L) | BS Result (mg/L) | BS % Rec. | BSD Result (mg/L) | BSD % Rec. | RPD  | Flag |
|---------------------|---------------------|---------------------|------------------|-----------|-------------------|------------|------|------|
| Gasoline By NWTPH-G | 0                   | 1.25                | 1.27             | 101       | 1.32              | 105        | 3.9  |      |
| Benzene             | 0                   | 0.025               | 0.0277           | 111       | 0.027             | 108        | -2.7 |      |
| Toluene             | 0                   | 0.025               | 0.027            | 108       | 0.0262            | 105        | -2.8 |      |
| Ethylbenzene        | 0                   | 0.025               | 0.0277           | 111       | 0.0269            | 108        | -2.7 |      |
| m&p-Xylene          | 0                   | 0.05                | 0.0582           | 116       | 0.0568            | 114        | -1.7 |      |
| o-Xylene            | 0                   | 0.025               | 0.0272           | 109       | 0.0265            | 106        | -2.8 |      |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: GB5170  
Date Prepared: 6/3/2005  
Date Analyzed: 6/4/2005  
QC Batch ID: GB5170

GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B

| <b>Compound Name</b> | <b>Blank Result (mg/L)</b> | <b>Spike Amount (mg/L)</b> | <b>BS Result (mg/L)</b> | <b>BS % Rec.</b> | <b>BSD Result (mg/L)</b> | <b>BSD % Rec.</b> | <b>RPD</b> | <b>Flag</b> |
|----------------------|----------------------------|----------------------------|-------------------------|------------------|--------------------------|-------------------|------------|-------------|
| Gasoline By NWTPH-G  | 0                          | 1.25                       | 1.22                    | 97.4             | 1.2                      | 96                | -1.4       |             |
| Benzene              | 0                          | 0.025                      | 0.0269                  | 107              | 0.0262                   | 105               | -1.9       |             |
| Toluene              | 0                          | 0.025                      | 0.0241                  | 96.6             | 0.0235                   | 93.9              | -2.8       |             |
| Ethylbenzene         | 0                          | 0.025                      | 0.0252                  | 101              | 0.0245                   | 98                | -3         |             |
| m&p-Xylene           | 0                          | 0.05                       | 0.0525                  | 105              | 0.0511                   | 102               | -2.9       |             |
| o-Xylene             | 0                          | 0.025                      | 0.0248                  | 99               | 0.0241                   | 96.4              | -2.7       |             |

**DATA QUALIFIERS AND ABBREVIATIONS**

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- C3: Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be ≤ 30%.
- C4: Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The original analysis was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- RL: Reporting Limit
- N: See analytical narrative
- ND: Not Detected
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be \_\_\_\_\_.
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.

|   |  |   |  |  |  |
|---|--|---|--|--|--|
| Client<br><b>Conoco Phillips / Delta Env</b>  |  | Project Manager<br><b>Eric Larsen</b><br>Telephone Number (Area Code)/Fax Number<br><b>425-558-0134</b> |  | Chain of Custody Number<br><b>05887</b>        |  |
| Address<br><b>17720 NE 65th St, Suite 201</b>                                       |  | Lab Number<br><b>78182</b>  |  | Date<br><b>6-2-05</b>                          |  |
| City<br><b>Redmond</b>  |  | State<br><b>WA</b>  |  | Page<br><b>1</b> of <b>1</b>                   |  |
| Zip Code<br><b>98052</b>  |  | Lab Contact<br><b>Tom Coyner</b>  |  | Special Instructions/<br>Conditions of Receipt |  |
| Project Name and Location (State)<br><b>WA255-3506-1 / 255353 Seattle (Wotlake)</b> |  | Site Contact<br><b>Mgr. K. Fley</b>   |  |  |  |
| Contract/Purchase Order/Quote No.<br><b>WO # 1396DELO06</b>                         |  | Carrier/Waybill Number  |  |  |  |
|   |  |   |  |  |  |

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Matrix  |      | Containers & Preservatives |         |       |      | Analysis (Attach list if more space is needed)                  |     |      |
|--|---------|------|----------------------------|---------|-------|------|---|-----|------|
|  | Aqueous | Soil | Soil                       | Unpres. | H2SO4 | HNO3 |   | HCl | NaOH |
| MW-18  | X       |      |                            |         |       | 4    | X<br>MWTPH-GX<br>BTX (8260)<br>MWTPH-DX<br>W/Silica gel cleanup |     |      |
| MW-37  |         |      |                            |         |       |      |   |     |      |
| MW-40  |         |      |                            |         |       |      |   |     |      |
| MW-41  |         |      |                            |         |       |      |   |     |      |
| MW-42  |         |      |                            |         |       |      |   |     |      |
| MW-43  |         |      |                            |         |       |      |   |     |      |
| MW-44  |         |      |                            |         |       |      |   |     |      |
| MW-36  |         |      |                            |         |       |      |   |     |      |

|   |   |   |  |
|---|---|---|--|
| <input checked="" type="checkbox"/> Cooler Yes<br><input type="checkbox"/> Cooler Temp: _____<br>Turn Around Time Required (business days)<br><input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days <input type="checkbox"/> 15 Days <input type="checkbox"/> Other _____ | Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Toxic <input type="checkbox"/> Corrosive | Sample Disposal<br><input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Archive For _____ Months | Disposal By Lab<br>(A fee may be assessed if samples are retained longer than 1 month) |
| QC Requirements (Specify)   |   |   |  |
| 1. Relinquished By<br><b>Eric Larsen, Delta Env</b>   | Date<br><b>6-2-05</b>   | Time<br><b>1455</b>   | 1. Received By<br><b>KK</b>  |
| 2. Relinquished By<br>_____   | Date<br>_____   | Time<br>_____   | 2. Received By<br>_____  |
| 3. Relinquished By<br>_____   | Date<br>_____   | Time<br>_____   | 3. Received By<br>_____  |

2 DAY TAT

Comments  
**Fluoride run Dx samples with acid/silica gel cleanup**  
 DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy



STL Seattle  
5755 8<sup>th</sup> Street East  
Tacoma, WA 98424

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**TRANSMITTAL MEMORANDUM**

DATE: June 22, 2005

TO: Eric Larsen  
Delta Environmental  
17720 NE 65th Street Ste 201  
Redmond, WA 98052

PROJECT: WA255-3510-1/255353 Seattle

REPORT NUMBER: 128449

TOTAL NUMBER OF PAGES: \_\_\_\_\_

Enclosed are the test results for fourteen samples received at STL Seattle on June 17, 2005. NWTPH-Gx and volatile organics analysis was performed at STL Sacramento.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

  
Tom Coyner  
Project Manager

---

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# STL Seattle

## Sample Identification:

| <u>Lab. No.</u> | <u>Client ID</u> | <u>Date/Time Sampled</u> | <u>Matrix</u> |
|-----------------|------------------|--------------------------|---------------|
| 128449-1        | MW-42            | 06-16-05 08:15           | Liquid        |
| 128449-2        | MW-43            | 06-16-05 09:00           | Liquid        |
| 128449-3        | MW-44            | 06-16-05 09:45           | Liquid        |
| 128449-4        | MW-36            | 06-16-05 12:20           | Liquid        |
| 128449-5        | MW-13            | 06-16-05 08:45           | Liquid        |
| 128449-6        | MW-16            | 06-16-05 09:10           | Liquid        |
| 128449-7        | MW-19            | 06-16-05 10:10           | Liquid        |
| 128449-8        | MW-54            | 06-16-05 12:30           | Liquid        |
| 128449-9        | MW-55            | 06-16-05 13:00           | Liquid        |
| 128449-10       | MW-56            | 06-16-05 13:15           | Liquid        |
| 128449-11       | MW-57            | 06-16-05 13:50           | Liquid        |
| 128449-12       | MW-58            | 06-16-05 13:40           | Liquid        |
| 128449-13       | MW-59            | 06-16-05 14:00           | Liquid        |
| 128449-14       | MW-60            | 06-16-05 13:35           | Liquid        |

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# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-13               |
| Lab ID:         | 128449-05           |
| Date Received:  | 6/17/2005           |
| Date Prepared:  | 6/20/2005           |
| Date Analyzed:  | 6/21/2005           |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 127        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 113        |       | 80              | 120  |
| Bromofluorobenzene       | 105        |       | 80              | 120  |
| Pentafluorobenzene       | 127        | X9    | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 1.82          | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | 0.00291       | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-16               |
| Lab ID:         | 128449-06           |
| Date Received:  | 6/17/2005           |
| Date Prepared:  | 6/20/2005           |
| Date Analyzed:  | 6/21/2005           |
| % Solids        | -                   |
| Dilution Factor | 5                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 120        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 114        |       | 80              | 120  |
| Bromofluorobenzene       | 107        |       | 80              | 120  |
| Pentafluorobenzene       | 122        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.5   |       |
| MTBE                | ND            | 0.005 |       |
| Benzene             | 0.135         | 0.005 |       |
| Toluene             | ND            | 0.005 |       |
| Ethylbenzene        | ND            | 0.005 |       |
| m&p-Xylene          | ND            | 0.01  |       |
| o-Xylene            | ND            | 0.005 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-19               |
| Lab ID:         | 128449-07           |
| Date Received:  | 6/17/2005           |
| Date Prepared:  | 6/20/2005           |
| Date Analyzed:  | 6/21/2005           |
| % Solids        | -                   |
| Dilution Factor | 50                  |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 124        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 116        |       | 80              | 120  |
| Bromofluorobenzene       | 111        |       | 80              | 120  |
| Pentafluorobenzene       | 126        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL   | Flags |
|---------------------|---------------|------|-------|
| Gasoline By NWTPH-G | 117           | 5    |       |
| MTBE                | ND            | 0.05 |       |
| Benzene             | 0.391         | 0.05 |       |
| Toluene             | 0.38          | 0.05 |       |
| Ethylbenzene        | 0.121         | 0.05 |       |
| m&p-Xylene          | 13.5          | 0.1  |       |
| o-Xylene            | 8.46          | 0.05 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-54               |
| Lab ID:         | 128449-08           |
| Date Received:  | 6/17/2005           |
| Date Prepared:  | 6/20/2005           |
| Date Analyzed:  | 6/21/2005           |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 109        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 102        |       | 80              | 120  |
| Bromofluorobenzene       | 93.1       |       | 80              | 120  |
| Pentafluorobenzene       | 112        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.206         | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | 0.00482       | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | 0.00209       | 0.001 |       |
| m&p-Xylene          | 0.00592       | 0.002 |       |
| o-Xylene            | 0.00435       | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-55               |
| Lab ID:         | 128449-09           |
| Date Received:  | 6/17/2005           |
| Date Prepared:  | 6/20/2005           |
| Date Analyzed:  | 6/21/2005           |
| % Solids        | -                   |
| Dilution Factor | 20                  |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 117        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 112        |       | 80              | 120  |
| Bromofluorobenzene       | 106        |       | 80              | 120  |
| Pentafluorobenzene       | 119        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL   | Flags |
|---------------------|---------------|------|-------|
| Gasoline By NWTPH-G | 2.24          | 2    |       |
| MTBE                | ND            | 0.02 |       |
| Benzene             | ND            | 0.02 |       |
| Toluene             | ND            | 0.02 |       |
| Ethylbenzene        | ND            | 0.02 |       |
| m&p-Xylene          | ND            | 0.04 |       |
| o-Xylene            | ND            | 0.02 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-56               |
| Lab ID:         | 128449-10           |
| Date Received:  | 6/17/2005           |
| Date Prepared:  | 6/20/2005           |
| Date Analyzed:  | 6/21/2005           |
| % Solids        | -                   |
| Dilution Factor | 1                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 114        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 105        |       | 80              | 120  |
| Bromofluorobenzene       | 94.6       |       | 80              | 120  |
| Pentafluorobenzene       | 119        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 0.135         | 0.1   |       |
| MTBE                | 0.00129       | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-57               |
| Lab ID:         | 128449-11           |
| Date Received:  | 6/17/2005           |
| Date Prepared:  | 6/20/2005           |
| Date Analyzed:  | 6/21/2005           |
| % Solids        | -                   |
| Dilution Factor | 20                  |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 125        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 117        |       | 80              | 120  |
| Bromofluorobenzene       | 109        |       | 80              | 120  |
| Pentafluorobenzene       | 127        | X9    | 81              | 126  |

| Analyte             | Result (mg/L) | RL   | Flags |
|---------------------|---------------|------|-------|
| Gasoline By NWTPH-G | 16.9          | 2    |       |
| MTBE                | ND            | 0.02 |       |
| Benzene             | 0.525         | 0.02 |       |
| Toluene             | 2.31          | 0.02 |       |
| Ethylbenzene        | 0.327         | 0.02 |       |
| m&p-Xylene          | 1.49          | 0.04 |       |
| o-Xylene            | 0.698         | 0.02 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-58               |
| Lab ID:         | 128449-12           |
| Date Received:  | 6/17/2005           |
| Date Prepared:  | 6/20/2005           |
| Date Analyzed:  | 6/21/2005           |
| % Solids        | -                   |
| Dilution Factor | 5                   |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 123        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 116        |       | 80              | 120  |
| Bromofluorobenzene       | 110        |       | 80              | 120  |
| Pentafluorobenzene       | 125        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | 3.97          | 0.5   |       |
| MTBE                | ND            | 0.005 |       |
| Benzene             | 0.628         | 0.005 |       |
| Toluene             | 0.499         | 0.005 |       |
| Ethylbenzene        | 0.143         | 0.005 |       |
| m&p-Xylene          | 0.402         | 0.01  |       |
| o-Xylene            | 0.139         | 0.005 |       |



# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-59               |
| Lab ID:         | 128449-13           |
| Date Received:  | 6/17/2005           |
| Date Prepared:  | 6/20/2005           |
| Date Analyzed:  | 6/21/2005           |
| % Solids        | -                   |
| Dilution Factor | 10                  |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 125        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 119        |       | 80              | 120  |
| Bromofluorobenzene       | 111        |       | 80              | 120  |
| Pentafluorobenzene       | 129        | X9    | 81              | 126  |

| Analyte             | Result (mg/L) | RL   | Flags |
|---------------------|---------------|------|-------|
| Gasoline By NWTPH-G | 10.1          | 1    |       |
| MTBE                | ND            | 0.01 |       |
| Benzene             | 0.519         | 0.01 |       |
| Toluene             | ND            | 0.01 |       |
| Ethylbenzene        | 0.176         | 0.01 |       |
| m&p-Xylene          | 0.695         | 0.02 |       |
| o-Xylene            | 0.0302        | 0.01 |       |

# STL Seattle

|                 |                     |
|-----------------|---------------------|
| Client Name:    | Delta Environmental |
| Client ID:      | MW-60               |
| Lab ID:         | 128449-14           |
| Date Received:  | 6/17/2005           |
| Date Prepared:  | 6/20/2005           |
| Date Analyzed:  | 6/21/2005           |
| % Solids        | -                   |
| Dilution Factor | 40                  |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 130        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 121        | X9    | 80              | 120  |
| Bromofluorobenzene       | 115        |       | 80              | 120  |
| Pentafluorobenzene       | 131        | X9    | 81              | 126  |

| Analyte             | Result (mg/L) | RL   | Flags |
|---------------------|---------------|------|-------|
| Gasoline By NWTPH-G | 64.3          | 4    |       |
| MTBE                | ND            | 0.04 |       |
| Benzene             | 4.1           | 0.04 |       |
| Toluene             | 6.82          | 0.04 |       |
| Ethylbenzene        | 2.26          | 0.04 |       |
| m&p-Xylene          | 8.1           | 0.08 |       |
| o-Xylene            | 2.51          | 0.04 |       |

# STL Seattle

|                 |                       |
|-----------------|-----------------------|
| Lab ID:         | Method Blank - GB5189 |
| Date Received:  | -                     |
| Date Prepared:  | 6/20/2005             |
| Date Analyzed:  | 6/21/2005             |
| % Solids        | -                     |
| Dilution Factor | 1                     |

## GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| Surrogate                | % Recovery | Flags | Recovery Limits |      |
|--------------------------|------------|-------|-----------------|------|
|                          |            |       | Low             | High |
| Trifluorotoluene         | 100        |       | 50              | 150  |
| 1-Chloro-3-fluorobenzene | 98         |       | 80              | 120  |
| Bromofluorobenzene       | 92.5       |       | 80              | 120  |
| Pentafluorobenzene       | 102        |       | 81              | 126  |

| Analyte             | Result (mg/L) | RL    | Flags |
|---------------------|---------------|-------|-------|
| Gasoline By NWTPH-G | ND            | 0.1   |       |
| MTBE                | ND            | 0.001 |       |
| Benzene             | ND            | 0.001 |       |
| Toluene             | ND            | 0.001 |       |
| Ethylbenzene        | ND            | 0.001 |       |
| m&p-Xylene          | ND            | 0.002 |       |
| o-Xylene            | ND            | 0.001 |       |

# STL Seattle

## Blank Spike/Blank Spike Duplicate Report

Lab ID: GB5189  
Date Prepared: 6/20/2005  
Date Analyzed: 6/21/2005  
QC Batch ID: GB5189

GRO by NWTPH-Gx / Volatile Aromatics by 5030/8260B

| <b>Compound Name</b> | <b>Blank Result (mg/L)</b> | <b>Spike Amount (mg/L)</b> | <b>BS Result (mg/L)</b> | <b>BS % Rec.</b> | <b>BSD Result (mg/L)</b> | <b>BSD % Rec.</b> | <b>RPD</b> | <b>Flag</b> |
|----------------------|----------------------------|----------------------------|-------------------------|------------------|--------------------------|-------------------|------------|-------------|
| Gasoline By NWTPH-G  | 0                          | 1.25                       | 1.3                     | 104              | 1.15                     | 92                | -12        |             |
| Benzene              | 0                          | 0.025                      | 0.028                   | 112              | 0.0265                   | 106               | -5.5       |             |
| Toluene              | 0                          | 0.025                      | 0.0253                  | 101              | 0.024                    | 96.1              | -5         |             |
| Ethylbenzene         | 0                          | 0.025                      | 0.024                   | 96.1             | 0.023                    | 91.9              | -4.5       |             |
| m&p-Xylene           | 0                          | 0.05                       | 0.0489                  | 97.7             | 0.0473                   | 94.5              | -3.3       |             |
| o-Xylene             | 0                          | 0.025                      | 0.0238                  | 95.4             | 0.0229                   | 91.4              | -4.3       |             |

**DATA QUALIFIERS AND ABBREVIATIONS**

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- C3: Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be  $\leq$  30%.
- C4: Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The original analysis was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- RL: Reporting Limit
- N: See analytical narrative
- ND: Not Detected
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be \_\_\_\_\_.
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.

STL Seattle  
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Tacoma, WA 98424  
Tel. 253-922-2310  
Fax 253-922-5047  
www.stl-inc.com

**Chain of**  
**Custody Record**

| Client<br><b>Conoco Phillips / Delta Env</b>   |         | Project Manager<br><b>Eric Larsen / elarsen@deltaenv.com</b>   |     | Date<br><b>6-17-05</b>      |     | Chain of Custody Number<br><b>18967</b>        |         |       |      |     |      |           |
|--|---------|--|-----|-----------------------------|-----|--|---------|-------|------|-----|------|-----------|
| Address<br><b>17720 NE 65th St. Suite 201</b>  |         | Telephone Number (Area Code)/Fax Number<br><b>425-558-0134</b> |     | Lab Number<br><b>128449</b> |     | Page<br><b>1</b> of <b>2</b>                   |         |       |      |     |      |           |
| City<br><b>Redmond</b>   |         | State<br><b>WA</b>   |     | Zip Code<br><b>98052</b>    |     | Analysis (Attach list if more space is needed) |         |       |      |     |      |           |
| Project Name and Location (State)<br><b>WA255-3510-1 / 255353 Seattle</b>                        |         | Site Contact<br><b>Tara Cooper</b>                             |     | Carrier/Waybill Number      |     | Special Instructions/<br>Conditions of Receipt |         |       |      |     |      |           |
| Contract/Purchase Order/Quote No.<br><b>WO#: 1396DELO10</b>                                      |         | Matrix   |     | Containers & Preservatives  |     |  |         |       |      |     |      |           |
| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date    | Time   | Air | Aqueous                     | Sed | Soil   | Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH |
| MW-42  | 6/16/05 | 815  | X   |                             |     |  |         |       |      |     |      |           |
| MW-43  |         | 900  |     |                             |     |  |         |       |      |     |      |           |
| MW-44  |         | 945  |     |                             |     |  |         |       |      |     |      |           |
| MW-36  |         | 1220   |     |                             |     |  |         |       |      |     |      |           |
| MW-13  |         | 845  |     |                             |     |  |         |       |      |     |      |           |
| MW-16  |         | 910  |     |                             |     |  |         |       |      |     |      |           |
| MW-19  |         | 1010   |     |                             |     |  |         |       |      |     |      |           |
| MW-54  |         | 1230   |     |                             |     |  |         |       |      |     |      |           |
| MW-55  |         | 1300   |     |                             |     |  |         |       |      |     |      |           |
| MW-56  |         | 1315   |     |                             |     |  |         |       |      |     |      |           |
| MW-57  |         | 1350   |     |                             |     |  |         |       |      |     |      |           |
| MW-58  |         | 1340   |     |                             |     |  |         |       |      |     |      |           |

Sample Disposal:  Return To Client  Archive For \_\_\_\_\_ Months

Disposal By Lab: \_\_\_\_\_

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_

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

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other

QC Requirements (Specify):

- Relinquished By: **Tara Cooper** Date: **6/17/05** Time: **11:00**
- Relinquished By: **Tara Cooper** Date: **6/17/05** Time: **13:25**
- Relinquished By: **Tara Cooper** Date: \_\_\_\_\_ Time: \_\_\_\_\_

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**Chain of Custody Record**

|   |  |   |  |   |
|---|--|---|--|---|
| Client<br>Conoco Phillips c/o Delta Env<br>Address<br>17720 NE 65th St. Suite 201<br>City<br>Redmond<br>State<br>WA<br>Zip Code<br>98052  | Project Manager<br>Eric Larsen / elarsen@deltaenv.com<br>Telephone Number (Area Code)/Fax Number<br>425-558-0134<br>Site Contact<br>Tom Caputo<br>Carrier/Waybill Number | Date<br>6/17/05<br>Lab Number<br>128449<br>Page<br>2 of 2   | Chain of Custody Number<br>18966         | Analysis (Attach list if more space is needed)                            |
| Project Name and Location (State)<br>WAD55-3510-1 / 255353 Seattle<br>Contract/Purchase Order/Quote No.<br>WDA: 13916 DEL-010   |  | Special Instructions/Conditions of Receipt<br>slight stain  |  |   |
| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line)  |  | Containers & Preservatives  |  |   |
| MW-59<br>MW-60  | Date<br>6/16/05<br>↓   | Time<br>1400<br>1335  | Matrix<br>Aqueous<br>Soil<br>Sed.<br>Air | Containers & Preservatives<br>HNO3<br>HCl<br>NaOH<br>ZnAc/NaOH<br>Unpres. |
| Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard<br><input type="checkbox"/> Flammable<br><input type="checkbox"/> Skin Irritant<br><input type="checkbox"/> Poison B<br><input type="checkbox"/> Unknown |  | Sample Disposal<br><input checked="" type="checkbox"/> Return To Client<br><input type="checkbox"/> Archive For _____ Months  |  |   |
| Cooler Temp: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |  | Turn Around Time Required (business days)<br><input type="checkbox"/> 24 Hours<br><input checked="" type="checkbox"/> 48 Hours<br><input type="checkbox"/> 5 Days<br><input type="checkbox"/> 10 Days<br><input type="checkbox"/> 15 Days<br><input type="checkbox"/> Other _____ |  |   |
| Relinquished By<br>Eric Larsen<br>Date<br>6/17/05<br>Time<br>11:00  |  | Relinquished By<br>Tom Caputo<br>Date<br>6/17/05<br>Time<br>7:05  |  |   |
| Relinquished By<br>Tom Caputo<br>Date<br>6/17/05<br>Time<br>7:05  |  | Relinquished By<br>Tom Caputo<br>Date<br>6/17/05<br>Time<br>7:05  |  |   |
| Comments  |  |   |  |   |



# STL

STL Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059  
www.stl-inc.com

June 21, 2005

**STL SACRAMENTO PROJECT NUMBER: G5F180179**  
**PO/CONTRACT: 128449**

Tom Coyner  
STL Seattle  
5755 8th Street East  
Tacoma, WA 98424

Dear Mr. Coyner,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on June 18, 2005. These samples are associated with your 128449 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4402.

Sincerely,

Jill Kellmann  
Project Manager



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### STL SACRAMENTO PROJECT NUMBER G5F180179

Case Narrative

STL Sacramento Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 8015 MOD, NWTPH-Dx

Samples: 1 through 14

    Sample Data Sheets

    Method Blank Report

    Laboratory QC Reports

Raw Data Section

## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G5F180179

#### General comments

The samples were received at 2°C and 3°C.

#### **WATER, 8015 MOD, NWTPH-Dx**

Sample(s): 1 through 14

Insufficient volume was available for a matrix spike/matrix spike duplicate (MS/MSD). A laboratory control sample/duplicate control sample (LCS/DCS) was prepared instead.

There were no other anomalies associated with this project.

## STL Sacramento Certifications/Accreditations

| Certifying State | Certificate # | Certifying State  | Certificate # |
|------------------|---------------|-------------------|---------------|
| Alaska           | UST-055       | Oregon*           | CA 200005     |
| Arkansas         | 04-067-0      | South Carolina    | 87014002      |
| Colorado         | NA            | Utah*             | QUAN1         |
| Florida*         | E87570        | Washington        | C087          |
| Hawaii           | NA            | Wisconsin         | 998204680     |
| Michigan         | 9947          | USACE             | NA            |
| New Jersey*      | CA005         | USDA Foreign Soil | S-46613       |

\*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

## QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary G5F180179

| <u>WO#</u> | <u>Sample #</u> | <u>Client Sample ID</u> | <u>Sampling Date</u> | <u>Received Date</u> |
|------------|-----------------|-------------------------|----------------------|----------------------|
| HDXT0      | 1               | MW-42                   | 6/16/2005 08:15 AM   | 6/18/2005 08:30 AM   |
| HDXT1      | 2               | MW-43                   | 6/16/2005 09:00 AM   | 6/18/2005 08:30 AM   |
| HDXT2      | 3               | MW-44                   | 6/16/2005 09:45 AM   | 6/18/2005 08:30 AM   |
| HDXT3      | 4               | MW-36                   | 6/16/2005 12:20 PM   | 6/18/2005 08:30 AM   |
| HDXT5      | 5               | MW-13                   | 6/16/2005 08:45 AM   | 6/18/2005 08:30 AM   |
| HDXT7      | 6               | MW-16                   | 6/16/2005 09:10 AM   | 6/18/2005 08:30 AM   |
| HDXT8      | 7               | MW-19                   | 6/16/2005 10:10 AM   | 6/18/2005 08:30 AM   |
| HDXVA      | 8               | MW-54                   | 6/16/2005 12:30 PM   | 6/18/2005 08:30 AM   |
| HDXVC      | 9               | MW-55                   | 6/16/2005 01:00 PM   | 6/18/2005 08:30 AM   |
| HDXVD      | 10              | MW-56                   | 6/16/2005 01:15 PM   | 6/18/2005 08:30 AM   |
| HDXVF      | 11              | MW-57                   | 6/16/2005 01:50 PM   | 6/18/2005 08:30 AM   |
| HDXVJ      | 12              | MW-58                   | 6/16/2005 01:40 PM   | 6/18/2005 08:30 AM   |
| HDXVK      | 13              | MW-59                   | 6/16/2005 02:00 PM   | 6/18/2005 08:30 AM   |
| HDXVP      | 14              | MW-60                   | 6/16/2005 01:35 PM   | 6/18/2005 08:30 AM   |

**Notes(s):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

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**Chain of Custody  
Record**

Client: STL-Seattle Project Manager: Tom Coyne Chain of Custody Number: 15440  
 Address: \_\_\_\_\_ Date: 6/17/05 Lab Number: \_\_\_\_\_ Page: 1 of 2  
 Telephone Number (Area Code/Fax Number): \_\_\_\_\_  
 Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_  
 Carrier/Waybill Number: \_\_\_\_\_

Project Name and Location (State): WA 255-3510-1/255353, Seattle  
 Contract/Purchase Order/Quote No.: 128749  
 State: WA Zip Code: \_\_\_\_\_  
 Analysis (Attach list if more space is needed): \_\_\_\_\_

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date    | Time | Matrix |     |     |       |      |    | Containers & Preservatives |      |      |  |  |  |  |  |  |  |
|--|---------|------|--------|-----|-----|-------|------|----|----------------------------|------|------|--|--|--|--|--|--|--|
|  |         |      | Asph   | Oil | PCB | H2SO4 | HNO3 | HF | HNO3                       | ZnAc | HNO3 |  |  |  |  |  |  |  |
| MW-42  | 6/16/05 | 0815 | X      |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-43  |         | 0900 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-44  |         | 0945 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-36  |         | 1220 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-13  |         | 0845 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-16  |         | 0910 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-19  |         | 1010 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-54  |         | 1230 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-55  |         | 1300 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-56  |         | 1315 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-57  |         | 1350 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |
| MW-58  |         | 1340 |        |     |     |       |      |    |                            |      |      |  |  |  |  |  |  |  |

RECEIVED IN GOOD CONDITION  
UNDERCOC  
JUN 18 2005  
HHL

Cooler:  Yes  No Cooler Temp: \_\_\_\_\_  
 Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Disposal By Lab  Archive For \_\_\_\_\_  
 Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_  
 Sample Disposal:  Return To Client  Months \_\_\_\_\_  
 QC Requirements (Specify): \_\_\_\_\_  
 1. Relinquished By: KR Date: 6/17/05 Time: 1500  
 2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Special Instructions/Conditions of Receipt: \_\_\_\_\_  
 Comments: \_\_\_\_\_  
 Distribution: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy  
 4 of 25  
 STL Sacramento (916) 373 - 5600  
 STL8274-580 (12/02)

**Chain of Custody Record**

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 Fax: 253-922-5047  
 www.stl-inc.com

**SEVERN  
 TRENT**

**STL**

Client: STL-Seattle Project Manager: \_\_\_\_\_ Date: \_\_\_\_\_ Chain of Custody Number: **15441**

Address: \_\_\_\_\_ Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Lab Number: \_\_\_\_\_ Page: 2 of 2

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Site Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_ Analysis (Attach list if more space is needed): \_\_\_\_\_

Project Name and Location (State): \_\_\_\_\_ Carrier/Voybill Number: \_\_\_\_\_

Contract/Purchase Order/Quote No. 128449

| Sample I.D. and Location/Description<br>(Containers for each sample may be combined on one line) | Date    | Time | Matrix   |                 |                 |      |       |      | Containers & Preservatives |      |               |      |       |      | Special Instructions/<br>Conditions of Receipt |  |  |
|--|---------|------|----------|-----------------|-----------------|------|-------|------|----------------------------|------|---------------|------|-------|------|--|--|--|
|  |         |      | Asbestos | SO <sub>2</sub> | SO <sub>4</sub> | Urea | H2SO4 | HNO3 | HCl                        | NaOH | ZnAc/<br>NaOH | HNO3 | H2SO4 | Urea |  |  |  |
| MW-59  | 6/16/05 | 1400 | X        |                 |                 |      |       |      |                            |      |               |      |       |      |  |  | RECEIVED IN YOUR IDENTIFICATION UNDER COOL |
| MW-60  | ↓       | 1335 | X        |                 |                 |      |       |      |                            |      |               |      |       |      |  |  | RECEIVED IN YOUR IDENTIFICATION UNDER COOL |
|  |         |      |          |                 |                 |      |       |      |                            |      |               |      |       |      |  |  |  |
|  |         |      |          |                 |                 |      |       |      |                            |      |               |      |       |      |  |  |  |

QC Requirements (Specify)

Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Turn Around Time Required (business days):  24 Hours  48 Hours  5 Days  10 Days  15 Days  Other \_\_\_\_\_

1. Relinquished By: KL Date: 6/17/05 Time: 1500

2. Relinquished By: Chyl Abd Date: 6-18-05 Time: 900

3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: \_\_\_\_\_

(A fee may be assessed if samples are retained longer than 1 month)



# STL

## LOT RECEIPT CHECKLIST STL Sacramento

CLIENT STL - Seattle PM JK LOG # 33107

LOT# (QUANTIMS ID) G5F180179 QUOTE# 65022 LOCATION cont

DATE RECEIVED 6-18-05 TIME RECEIVED 830

Initials JK Date 6-18-05

- DELIVERED BY
- FEDEX
  - AIRBORNE
  - UPS
  - STL COURIER
  - OTHER
  - CA OVERNIGHT
  - GOLDENSTATE
  - BAX GLOBAL
  - COURIERS ON DEMAND
  - CLIENT
  - DHL
  - GO-GETTERS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER \_\_\_\_\_

COC #(S) 15440 15441

TEMPERATURE BLANK Observed: 0 Corrected: 2

SAMPLE TEMPERATURE  
Observed: 3 3 3 Average: 3 Corrected Average: 3

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes: \_\_\_\_\_

# WATER, 8015 MOD, NWTPH-Dx



STL SEATTLE

Client Sample ID: MW-42

GC Semivolatiles

Lot-Sample #....: G5F180179-001    Work Order #....: HDXT01AA    Matrix.....: WATER  
Date Sampled....: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/20/05  
Prep Batch #....: 5169117  
Dilution Factor: 2    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|---------------------|---------------|----------------------------|--------------|
| TPH (as Diesel)     | ND            | 50                         | ug/L         |
| Unknown Hydrocarbon | 110           | 50                         | ug/L         |

| <u>SURROGATE</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|------------------|-----------------------------|----------------------------|
| o-Terphenyl      | 95                          | (51 - 154)                 |

NOTE(S):

The unknown from n-C8 to n-C34 is quantitated with all peaks from n-C8 to n-C36 and based on diesel (n-C10 to n-C24).

STL SEATTLE

Client Sample ID: MW-43

GC Semivolatiles

Lot-Sample #...: G5F180179-002    Work Order #...: HDXT11AA    Matrix.....: WATER  
Date Sampled...: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5169117  
Dilution Factor: 1    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u> | <u>REPORTING</u> |              |
|---------------------|---------------|------------------|--------------|
|                     |               | <u>LIMIT</u>     | <u>UNITS</u> |
| TPH (as Diesel)     | ND            | 50               | ug/L         |
| Unknown Hydrocarbon | ND            | 50               | ug/L         |

| <u>SURROGATE</u> | <u>PERCENT</u>  | <u>RECOVERY</u> |
|------------------|-----------------|-----------------|
|                  | <u>RECOVERY</u> | <u>LIMITS</u>   |
| o-Terphenyl      | 94              | (51 - 154)      |

STL SEATTLE

Client Sample ID: MW-44

GC Semivolatiles

Lot-Sample #....: G5F180179-003    Work Order #....: HDXT21AA    Matrix.....: WATER  
Date Sampled....: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/20/05  
Prep Batch #....: 5169117  
Dilution Factor: 1    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|---------------------|-----------------------------|----------------------------|--------------|
| TPH (as Diesel)     | ND                          | 50                         | ug/L         |
| Unknown Hydrocarbon | ND                          | 50                         | ug/L         |
| <u>SURROGATE</u>    | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| o-Terphenyl         | 95                          | (51 - 154)                 |              |

STL SEATTLE

Client Sample ID: MW-36

GC Semivolatiles

Lot-Sample #...: G5F180179-004    Work Order #...: HDXT31AA    Matrix.....: WATER  
Date Sampled...: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5169117  
Dilution Factor: 1    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|---------------------|---------------|----------------------------------|--------------|
| TPH (as Diesel)     | ND            | 50                               | ug/L         |
| Unknown Hydrocarbon | ND            | 50                               | ug/L         |

| <u>SURROGATE</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|------------------|-----------------------------------|----------------------------------|
| o-Terphenyl      | 96                                | (51 - 154)                       |

STL SEATTLE

Client Sample ID: MW-13

GC Semivolatiles

Lot-Sample #...: G5F180179-005    Work Order #...: HDXT51AA    Matrix.....: WATER  
Date Sampled...: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/20/05  
Prep Batch #...: 5169117  
Dilution Factor: 1    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|---------------------|---------------|----------------------------|--------------|
| TPH (as Diesel)     | ND            | 50                         | ug/L         |
| Unknown Hydrocarbon | 840           | 50                         | ug/L         |

| <u>SURROGATE</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|------------------|-----------------------------|----------------------------|
| o-Terphenyl      | 102                         | (51 - 154)                 |

**NOTE(S):**

The unknown from n-C8 to n-C40 is quantitated with all peaks from n-C8 to n-C36 and based on diesel (n-C10 to n-C24).

STL SEATTLE

Client Sample ID: MW-16

GC Semivolatiles

Lot-Sample #...: G5F180179-006    Work Order #...: HDXT71AA    Matrix.....: WATER  
Date Sampled...: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5169117  
Dilution Factor: 5    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|---------------------|---------------|----------------------------------|--------------|
| TPH (as Diesel)     | ND            | 250                              | ug/L         |
| Unknown Hydrocarbon | 4000          | 250                              | ug/L         |

| <u>SURROGATE</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|------------------|-----------------------------------|----------------------------------|
| o-Terphenyl      | 115                               | (51 - 154)                       |

NOTE(S):

The unknown from n-C14 to n-C40 is quantitated with all peaks from n-C 8 to n-C36 and based on diesel (n-C10 to n-C24).

STL SEATTLE

Client Sample ID: MW-19

GC Semivolatiles

Lot-Sample #...: G5F180179-007    Work Order #...: HDXT81AA    Matrix.....: WATER  
Date Sampled...: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5169117  
Dilution Factor: 50    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u>   | <u>REPORTING</u> |              |
|---------------------|-----------------|------------------|--------------|
|                     |                 | <u>LIMIT</u>     | <u>UNITS</u> |
| TPH (as Diesel)     | ND              | 2500             | ug/L         |
| Unknown Hydrocarbon | 29000           | 2500             | ug/L         |
|                     |                 | <u>RECOVERY</u>  |              |
| <u>SURROGATE</u>    | <u>RECOVERY</u> | <u>LIMITS</u>    |              |
| o-Terphenyl         | 0.0 SRD         | (51 - 154)       |              |

**NOTE(S):**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
The unknown from n-C8 to n-C34 is quantitated with all peaks from n-C8 to n-C36 and based on diesel (n-C10 to n-C24).

STL SEATTLE

Client Sample ID: MW-54

GC Semivolatiles

Lot-Sample #...: G5F180179-008    Work Order #...: HDXVALAA    Matrix.....: WATER  
Date Sampled...: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/21/05  
Prep Batch #...: S169117  
Dilution Factor: 1    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|---------------------|---------------|----------------------------|--------------|
| TPH (as Diesel)     | ND            | 50                         | ug/L         |
| Unknown Hydrocarbon | 120           | 50                         | ug/L         |

| <u>SURROGATE</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|------------------|-----------------------------|----------------------------|
| o-Terphenyl      | 98                          | (51 - 154)                 |

NOTE(S):

The unknown from n-C8 to n-C38 is quantitated with all peaks from n-C8 to n-C36 and based on diesel (n-C10 to n-C24).



STL SEATTLE

Client Sample ID: MW-55

GC Semivolatiles

Lot-Sample #....: G5F180179-009    Work Order #....: HDXVC1AA    Matrix.....: WATER  
Date Sampled....: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/21/05  
Prep Batch #....: 5169117  
Dilution Factor: 10    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|---------------------|-----------------|----------------------------------|--------------|
| TPH (as Diesel)     | ND              | 500                              | ug/L         |
| Unknown Hydrocarbon | 2700            | 500                              | ug/L         |
|                     | <u>PERCENT</u>  | <u>RECOVERY</u>                  |              |
| <u>SURROGATE</u>    | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| o-Terphenyl         | 0.0 SRD         | (51 - 154)                       |              |

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
The unknown from n-C8 to n-C26 is quantitated with all peaks from n-C8to n-C36 and based on diesel (n-C10 to n-C24).

STL SEATTLE

Client Sample ID: MW-56

GC Semivolatiles

Lot-Sample #....: G5F180179-010    Work Order #....: HDXVD1AA    Matrix.....: WATER  
Date Sampled...: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/21/05  
Prep Batch #....: 5169117  
Dilution Factor: 1    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u>   | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|---------------------|-----------------|----------------------------------|--------------|
| TPH (as Diesel)     | ND              | 50                               | ug/L         |
| Unknown Hydrocarbon | 200             | 50                               | ug/L         |
|                     | <u>PERCENT</u>  | <u>RECOVERY</u>                  |              |
| <u>SURROGATE</u>    | <u>RECOVERY</u> | <u>LIMITS</u>                    |              |
| o-Terphenyl         | 88              | (51 - 154)                       |              |

**NOTE(S) :**

The unknown from n-C8 to n-C40 is quantitated with all peaks from n-C8 to n-C36 and based on diesel (n-C10 to n-C24).

STL SEATTLE

Client Sample ID: MW-57

GC Semivolatiles

Lot-Sample #...: G5F180179-011    Work Order #...: HDXVF1AA    Matrix.....: WATER  
Date Sampled...: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5169117  
Dilution Factor: 5    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|---------------------|---------------|----------------------------------|--------------|
| TPH (as Diesel)     | ND            | 250                              | ug/L         |
| Unknown Hydrocarbon | 1800          | 250                              | ug/L         |

| <u>SURROGATE</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|------------------|-----------------------------------|----------------------------------|
| o-Terphenyl      | 98                                | (51 - 154)                       |

**NOTE (S) :**

The unknown from n-C8 to n-C36 is quantitated with all peaks from n-C8 to n-C36 and based on diesel (n-C10 to n-C24).

STL SEATTLE

Client Sample ID: MW-58

GC Semivolatiles

Lot-Sample #...: G5F180179-012    Work Order #...: HDXVJ1AA    Matrix.....: WATER  
Date Sampled...: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5169117  
Dilution Factor: 1    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|---------------------|---------------|----------------------------------|--------------|
| TPH (as Diesel)     | ND            | 50                               | ug/L         |
| Unknown Hydrocarbon | 400           | 50                               | ug/L         |

| <u>SURROGATE</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|------------------|-----------------------------------|----------------------------------|
| o-Terphenyl      | 107                               | (51 - 154)                       |

NOTE(S):

The unknown from n-C6 to n-C32 is quantitated with all peaks from n-C 8 to n-C36 and based on diesel (n-C10 to n-C24).

STL SEATTLE

Client Sample ID: MW-59

GC Semivolatiles

Lot-Sample #...: G5F180179-013    Work Order #...: HDXVK1AA    Matrix.....: WATER  
Date Sampled...: 06/16/05    Date Received...: 06/18/05  
Prep Date.....: 06/18/05    Analysis Date...: 06/21/05  
Prep Batch #...: 5169117  
Dilution Factor: 5    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u>               | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|---------------------|-----------------------------|----------------------------|--------------|
| TPH (as Diesel)     | ND                          | 250                        | ug/L         |
| Unknown Hydrocarbon | 1600                        | 250                        | ug/L         |
|                     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |              |
| <u>SURROGATE</u>    |                             |                            |              |
| o-Terphenyl         | 95                          | (51 - 154)                 |              |

NOTE(S):

The unknown from n-C8 to n-C14 is quantitated with all peaks from n-C 8 to n-C36 and based on diesel (n-C10 to n-C24).

STL SEATTLE

Client Sample ID: MW-60

GC Semivolatiles

Lot-Sample #....: G5F180179-014    Work Order #....: HDXVP1AA    Matrix.....: WATER  
 Date Sampled...: 06/16/05    Date Received...: 06/18/05  
 Prep Date.....: 06/18/05    Analysis Date...: 06/21/05  
 Prep Batch #....: 5169117  
 Dilution Factor: 10    Method.....: SW846 8015 MOD

| <u>PARAMETER</u>    | <u>RESULT</u>   | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|---------------------|-----------------|----------------------------|--------------|
| TPH (as Diesel)     | ND              | 500                        | ug/L         |
| Unknown Hydrocarbon | 3900            | 500                        | ug/L         |
|                     | <u>PERCENT</u>  | <u>RECOVERY</u>            |              |
| <u>SURROGATE</u>    | <u>RECOVERY</u> | <u>LIMITS</u>              |              |
| o-Terphenyl         | 0.0 SRD         | (51 - 154)                 |              |

NOTE(S) :

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
 The unknown from n-C8 to n-C34 is quantitated with all peaks from n-C 8 to n-C36 and based on diesel (n-C10 to n-C24).

# QC DATA ASSOCIATION SUMMARY

G5F180179

## Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 002            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 003            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 004            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 005            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 006            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 007            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 008            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 009            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 010            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 011            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 012            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 013            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |
| 014            | WATER         | SW846 8015 MOD               |                          | 5169117                 |                |

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: G5F180179  
MB Lot-Sample #: G5F180000-117

Work Order #...: HDX8L1AA

Matrix.....: WATER

Analysis Date...: 06/20/05  
Dilution Factor: 1

Prep Date.....: 06/18/05

Prep Batch #...: 5169117

| <u>PARAMETER</u>    | <u>RESULT</u> | <u>REPORTING</u> |              | <u>METHOD</u>  |
|---------------------|---------------|------------------|--------------|----------------|
|                     |               | <u>LIMIT</u>     | <u>UNITS</u> |                |
| TPH (as Diesel)     | ND            | 50               | ug/L         | SW846 8015 MOD |
| Unknown Hydrocarbon | ND            | 50               | ug/L         | SW846 8015 MOD |

| <u>SURROGATE</u> | <u>PERCENT</u>  | <u>RECOVERY</u> |
|------------------|-----------------|-----------------|
|                  | <u>RECOVERY</u> | <u>LIMITS</u>   |
| o-Terphenyl      | 88              | (51 - 154)      |

**NOTE(S) :**

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



**APPENDIX E**

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**GROUNDWATER MONITORING FIELD SHEETS**

**GROUNDWATER SAMPLING FIELD SHEET**

|  |                                   |
|--|-----------------------------------|
| <b>DELTA PROJECT NUMBER:</b> <u>WA255-3506-1</u>               | <b>CLIENT:</b> <u>COP</u>         |
| <b>SITE No./JOB No.:</b> <u>255353 Seattle</u>                 | <b>PAGE:</b> <u>1</u> of <u>1</u> |
| <b>SITE ADDRESS/LOCATION:</b> <u>600 Westlake Ave N</u>        | <b>DATE:</b> <u>6-1-05</u>        |
| <b>FIELD PERSONNEL:</b> <u>Laura Brock, Alan Starr, Jaimie</u> | <b>WEATHER:</b> _____             |

| Well ID | Time | Well Diameter (in.) | Depth to Bottom (feet) | Depth to Water (feet) | Depth to LPH (feet) | LPH Thickness (feet) | Calc. Purge (gal) | Actual Purge (gal) | Purge Method (B/LF/P) | Dissolved Oxygen (mg/l) | Sample Appearance/Comments |
|---------|------|---------------------|------------------------|-----------------------|---------------------|----------------------|-------------------|--------------------|-----------------------|-------------------------|----------------------------|
| MW-33   | 1015 | 2                   | 24.90                  | 11.21                 | —                   | —                    |                   |                    | B                     | 9.3                     | cloudy                     |
| MW-50   | 1035 |                     | 17.45                  | 10.58                 | —                   | —                    |                   |                    |                       | 1.3                     | clear                      |
| MW-51   | 1200 |                     | 15.30                  | 11.62                 | —                   | —                    |                   |                    |                       | 2.1                     | clear                      |
| MW-45   | 1100 |                     | 18.85                  | 8.62                  | —                   | —                    |                   |                    |                       | 1.3                     | clear                      |
| MW-3A   | 1140 | ↓                   | 21.50                  | 10.29                 | —                   | —                    |                   |                    |                       | 1.1                     | cloudy                     |
| MW-35   | 1120 | 4                   | 22.60                  | 10.11                 | —                   | —                    |                   |                    |                       | 1.6                     | clear                      |
| MW-52   | 1245 | 2                   | 17.90                  | 10.30                 | —                   | —                    |                   |                    |                       | 1.4                     | sediment, clear            |
| MW-32A  | 1330 |                     | 24.20                  | 11.76                 | —                   | —                    |                   |                    |                       | 2.6                     | clear                      |
| MW-34   | 1250 |                     | 25.15                  | 11.81                 | —                   | —                    |                   |                    |                       | 2.9                     | cloudy, sediment           |
| MW-53   | 1225 |                     | 16.00                  | 11.22                 | —                   | —                    |                   |                    |                       | 1.5                     | microbes, clear            |
| MW-47   | 1300 |                     | 19.25                  | 11.25                 | —                   | —                    |                   |                    |                       | 1.3                     | clear                      |
| MW-48   | 1125 |                     | 18.63                  | 9.40                  | —                   | —                    |                   |                    |                       | 1.3                     | cloudy                     |
| SMW-3   | 1400 | ↓                   | 16.50                  | 10.62                 | —                   | —                    |                   |                    | ↓                     | 1.3                     | cloudy                     |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |
|         |      |                     |                        |                       |                     |                      |                   |                    |                       |                         |                            |

|                             |   |                      |
|-----------------------------|---|----------------------|
| <b>System Instructions:</b> | Remedial System On-Site (Y/N)?                      | Comments:            |
|                             | Operational Upon Arrival (Y/N)?                     | Comments:            |
|                             | Shut Down System 1 / 24 hours before gauging (Y/N)? | Time/Date Downed:    |
|                             | Re-Start System (Y/N)?                              | Time/Date Restarted: |
|                             | Purge Method:                                       | Comments:            |

**Purge Water Disposal Method:**

|   |                    |
|---|--------------------|
| <input checked="" type="checkbox"/> Treated through mobile carbon treatment unit and discharged on-site | No. of drums:      |
| <input type="checkbox"/> Placed in drums on site  | Facility/Location: |
| <input type="checkbox"/> Transported off-site for treatment   |                    |

**Measuring Device(s):** WLI / I-F Probe / DO Calibrated @ 101% sat

GROUNDWATER SAMPLING FIELD SHEET

DELTA PROJECT NUMBER: WAZSS-3506-1 CLIENT: COP  
 SITE No./JOB No.: 255353 Seattle PAGE: 1 of 1  
 SITE ADDRESS/LOCATION: 600 Westlake Ave N DATE: 6-2-05  
 FIELD PERSONNEL: Laura Brock, Kevin Hill WEATHER: cloudy, 70's

| Well ID | Time  | Well Diameter (in.)   | Depth to Bottom (feet) | Depth to Water (feet) | Depth to LPH (feet) | LPH Thickness (feet) | Calc. Purge (gal) | Actual Purge (gal) | Purge Method (B/LF/R) | Dissolved Oxygen (mg/l) | Sample Appearance/Comments      |
|---------|-------|-----------------------|------------------------|-----------------------|---------------------|----------------------|-------------------|--------------------|-----------------------|-------------------------|---------------------------------|
| MW-18   | 1025  | 2                     | 13.50                  | 10.83                 | ---                 | ---                  |                   |                    |                       | 1.1                     | cloudy, sediment                |
| MW-37   | 1045  | 2                     | 19.00                  | 10.87                 | ---                 | ---                  |                   |                    |                       | 1.5                     | cloudy, sediment                |
| MW-19   | NS    | 1.5                   | 14.50                  | 10.95                 | ---                 | ---                  |                   |                    |                       | 1.3                     | bailer too large                |
| MW-24   | NS    | 1.5                   | 11.60                  | Dry                   | ---                 | ---                  |                   |                    |                       | ---                     | rubber plug to seal well        |
| MW-40   | 1135  | 2                     | 19.00                  | 11.30                 | ---                 | ---                  |                   |                    |                       | 1.0                     | cloudy                          |
| MW-41   | 1220  | 2                     | 19.80                  | 15.48                 | ---                 | ---                  |                   |                    |                       | 1.4                     | cloudy                          |
| MW-17   | NS    | 2                     |                        |                       | ---                 | ---                  |                   |                    |                       | ---                     | no cap casing clogged w/dirt    |
| MW-42   | 1245  | 2                     | 26.50                  | 9.52                  | ---                 | ---                  |                   |                    |                       | 1.5                     |                                 |
| MW-43   | 1300  | 2                     | 21.50                  | 11.18                 | ---                 | ---                  |                   |                    |                       | 1.3                     |                                 |
| MW-16   | NS    | 1.5                   | 12.90                  | 10.95                 | ---                 | ---                  |                   |                    |                       | 1.0                     | bailer too large                |
| MW-15   | NS    | 1.5                   | 2.20                   | 2.20                  | ---                 | ---                  |                   |                    |                       | ---                     | casing broken, bailer too large |
| MW-14   | NS    | 1.5                   | 8.65                   | 8.35                  | ---                 | ---                  |                   |                    |                       | 1.4                     | bailer too large                |
| MW-44   | 1330  | 2                     | 19.40                  | 9.30                  | ---                 | ---                  |                   |                    |                       | 1.2                     | clear, sediment                 |
| MW-36   | 1400  | 2                     | 18.00                  | 7.70                  | ---                 | ---                  |                   |                    |                       | 0.9                     | clear, sediment                 |
| MW-38   | still | covered by parked car |                        |                       |                     |                      |                   |                    |                       |                         |                                 |

System Instructions:

Remedial System On-Site (Y/N)? \_\_\_\_\_ Comments: \_\_\_\_\_

Operational Upon Arrival (Y/N)? \_\_\_\_\_ Comments: \_\_\_\_\_

Shut Down System 1 / 24 hours before gauging (Y/N)? \_\_\_\_\_ Time/Date Downed: \_\_\_\_\_

Re-Start System (Y/N)? \_\_\_\_\_ Time/Date Restarted: \_\_\_\_\_

Purge Method: \_\_\_\_\_ Comments: \_\_\_\_\_

Purge Water Disposal Method:

Treated through mobile carbon treatment unit and discharged on-site

Placed in drums on site No. of drums: \_\_\_\_\_

Transported off-site for treatment Facility/Location: \_\_\_\_\_

Measuring Device(s): WLF, DO (calibrated to 101% sat)

GROUNDWATER SAMPLING FIELD SHEET

DELTA PROJECT NUMBER: WA255-3510-1 CLIENT: COP  
 SITE No./JOB No.: 255353 Seattle PAGE: 1 of 1  
 SITE ADDRESS/LOCATION: 600 Westlake Ave N DATE: 6-16-05  
 FIELD PERSONNEL: Laura Brock, Chris Mitewski WEATHER: sunny

| Well ID | Time | Well Diameter (in.) | Depth to Bottom (feet) | Depth to Water (feet) | Depth to LPH (feet) | LPH Thickness (feet) | Calc. Purge (gal) | Actual Purge (gal) | Purge Method (B/LF/P) | Dissolved Oxygen (mg/l) | Sample Appearance/Comments                            |
|---------|------|---------------------|------------------------|-----------------------|---------------------|----------------------|-------------------|--------------------|-----------------------|-------------------------|---|
| MW-17   | NS   | 1.5                 | —                      | —                     | —                   | —                    | —                 | —                  | B                     | —                       | no cap, casing clogged                                |
| MW-42   | 815  | 2                   | 26.50                  | 9.34                  | —                   | —                    | 8.8               | 9.0                |                       | 1.0                     | amber liter only                                      |
| MW-13   | 845  | 1.5                 | 16.60                  | 11.86                 | —                   | —                    | 1.3               | 1.5                |                       | 1.3                     |   |
| MW-43   | 900  | 2                   | 21.50                  | 11.16                 | —                   | —                    | 0.6               | 0.                 |                       | 1.2                     | amber liter only                                      |
| MW-16   | 910  | 1.5                 | 12.90                  | 10.86                 | —                   | —                    | 0.6               | 0.6                |                       | 0.6                     |   |
| MW-27   | NS   | 1.5                 | 7.45                   | Dry                   | —                   | —                    | —                 | —                  |                       | —                       | DRY   |
| MW-15   | NS   | 1.5                 | —                      | —                     | —                   | —                    | —                 | —                  |                       | —                       | casing broken   |
| MW-14   | NS   | 1.5                 | 8.90                   | 8.60                  | —                   | —                    | —                 | —                  |                       | —                       | HCO, <sup>not enough</sup> H <sub>2</sub> O to sample |
| MW-44   | 945  | 2                   | 19.40                  | 8.32                  | —                   | —                    | 5.7               | 5.75               |                       | 1.3                     | amber liter only                                      |
| MW-19   | 1010 | 1.5                 | 14.50                  | 10.92                 | —                   | —                    | 1.0               | 1.0                |                       | 1.2                     | HCO   |
| MW-24   | NS   | 1.5                 | 11.60                  | —                     | —                   | —                    | —                 | —                  |                       | —                       | Dry   |
| MW-38   | NS   | 2                   | —                      | —                     | —                   | —                    | —                 | —                  |                       | —                       | covered by parked car                                 |
| MW-36   | 1220 | 2                   | 18.00                  | 7.71                  | —                   | —                    | 5.25              | 5.5                |                       | 0.8                     |   |
| MW-54   | 1230 | 2                   | 20.05                  | 9.09                  | —                   | —                    | 5.6               | 5.75               |                       | 1.4                     |   |
| MW-55   | 1300 | 2                   | 19.60                  | 10.53                 | —                   | —                    | 4.6               | 4.75               |                       | 0.7                     |   |
| MW-56   | 1315 | 2                   | 19.65                  | 10.91                 | —                   | —                    | 4.5               | 4.75               |                       | 1.1                     |   |
| MW-57   | 1350 | 2                   | 18.59                  | 10.54                 | —                   | —                    | 4.1               | 4.25               |                       | 1.1                     |   |
| MW-58   | 1340 | 2                   | 19.95                  | 11.71                 | —                   | —                    | 4.2               | 4.25               |                       | 1.3                     |   |
| MW-59   | 1400 | 2                   | 19.35                  | 12.00                 | —                   | —                    | 3.75              | 4.0                |                       | 1.0                     |   |
| MW-60   | 1335 | 2                   | 19.65                  | 11.54                 | —                   | —                    | 4.1               | 4.25               | ✓                     | 0.8                     | HCO slight sheen                                      |

System Instructions:

Remedial System On-Site (Y/N)? \_\_\_\_\_ Comments: \_\_\_\_\_

Operational Upon Arrival (Y/N)? \_\_\_\_\_ Comments: \_\_\_\_\_

Shut Down System 1 / 24 hours before gauging (Y/N)? \_\_\_\_\_ Time/Date Downed: \_\_\_\_\_

Re-Start System (Y/N)? \_\_\_\_\_ Time/Date Restarted: \_\_\_\_\_

Purge Method: \_\_\_\_\_ Comments: \_\_\_\_\_

Purge Water Disposal Method:

Treated through mobile carbon treatment unit and discharged on-site

Placed in drums on site No. of drums: 1 drum

Transported off-site for treatment Facility/Location: \_\_\_\_\_

Measuring Device(s): DO (calibrated @ 101% sat), WLI