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FINAL ENVIRONMENTAL SITE ASSESSMENT: PHASE II PCP/DIESEL MIXING AREAS

at

2737 West Commodore Way Seattle, Washington

Prepared for

Time Oil Company

June 4, 2001

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DEPT OF ECOLOGY

Prepared by

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Time Oil Company
Final Environmental Site Assessment: Phase II

PCP/Diesel Mixing Areas

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ACRONYMS AND ABBREVIATIONS

AST above-ground storage tank

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylene

cPAH carcinogenic PAH EC equivalent carbon

Ecology Washington State Department of Ecology

EPA U.S. Environmental Protection Agency

ESA Environmental Site Assessment

Foster Wheeler

Environmental Foster Wheeler Environmental Corporation

HDPE high-density polyethylene

ID inner diameter

MCL maximum contaminant level

mg/kg milligram per kilogram

mg/L milligram per liter

MNA monitored natural attenuation mS/cm millisiemens per centimeter MTCA Model Toxics Control Act

NAD North American Datum

NAVD National America Vertical Datum

NTU nephelometric turbidity unit

NWTPH-D_x Northwest total petroleum hydrocarbon-diesel extended NWTPH-G_x Northwest total petroleum hydrocarbon-gasoline extended

OSWER Office of Solid Waste and Emergency Response

PAH polyaromatic hydrocarbon

PCP pentachlorophenol

PID photoionization detector

Property 2737 West Commodore Way

PVC polyvinyl chloride

RBCA Risk-Based Corrective Action

sim selected ion monitoring

Time Oil Company Final Environmental Site Assessment: Phase II PCP/Diesel Mixing Areas

June 4, 2001

ACRONYMS AND ABBREVIATIONS (CONTINUED)

TOC	Time Oil Company
TPH	total petroleum hydrocarbon
μg/L	micrograms per liter
UST	underground storage tank
VOC	volatile organic compound
VOC	volatile organic compound

1. INTRODUCTION

In August 2000, Foster Wheeler Environmental Corporation (Foster Wheeler Environmental) completed Phase I Environmental Site Assessments (ESAs) at seven properties owned by the Time Oil Company (TOC) located along West Commodore Way in Seattle, Washington. The results of the Phase I ESA activity were documented in Phase I ESA reports prepared for each of the seven properties (Foster Wheeler Environmental 2000). Further investigation activities were suggested for three of the seven properties.

The Phase I ESA report prepared for the property located at 2737 West Commodore Way (Property) indicated that additional investigation was required to evaluate subsurface conditions. One of the key issues identified in the Phase I ESA was the historic use of pentachlorophenol (PCP) at the Property. Phase II ESA activities were subsequently conducted at the Property in November and December 2000. This report presents the results of the Phase II activities conducted relative to the PCP issues at the property located at 2737 West Commodore Way, Seattle, Washington. Figure 1-1 depicts the general location of the Property and Figure 1-2 illustrates the locations of the TOC properties relative to one another (all figures and tables are placed at the end of this report).

1.1 PURPOSE AND ORGANIZAITON

The purpose of the Phase II field activities was to evaluate subsurface conditions in specific areas identified during the Phase I ESA. This report is organized into six sections and two appendices.

- Section 1 Introduction
- Section 2 Summary of Previous Investigations
- Section 3 Field Activities
- Section 4 Analytical Results
- Section 5 Conclusions and Recommendations
- Section 6 References
- Appendix A Soil Boring Logs
- Appendix B Laboratory Data Packages

1.2 PROJECT OBJECTIVES

The results of the Phase I ESA conducted at the Property suggested that further investigations be conducted at several areas of the Property, including the three listed below, to evaluate subsurface conditions. A layout of the Property and the three areas investigated for the Phase II ESA are provided in Figure 1-3. The areas and the justification for additional investigation are as follows:

- Former PCP/Diesel Mixing Area—An above-ground storage tank (AST) was used in
 the Lower Tank Yard Area to mix PCP and diesel during a short period of time in
 the late 1960s. The Former PCP/Diesel Mixing Area is a sub-area of the Lower
 Tank Yard Area. Hand-auger screening borings and a temporary monitoring well
 were planned to evaluate the potential for petroleum-impacted and PCP-impacted
 soil and groundwater.
- 2. Former Barrel Shed-PCP/Diesel Subsurface Piping Area—The Former Barrel Shed was located between the warehouse and the office building, west of the Lower Tank Yard Area. The pipeline from the PCP/diesel mixing tank ran underground in this area. Soil borings and a monitoring well were planned to evaluate the potential for petroleum- and PCP-impacted soil and groundwater.
- 3. New Barrel Shed Area—Solution from the Former PCP/Diesel Mixing Area was transferred to the New Barrel Shed Area in a subsurface pipeline. Barrels were filled manually from an overhead distribution system. Soil borings were planned to evaluate the extent of potential petroleum-impacted and PCP-impacted soil and groundwater.

1.3 LEGAL DESCRIPTION

Site Address:

Time Oil Company, Inc.

2737 West Commodore Way Seattle, Washington 98199

Property Owner:

Time Oil Company

2737 West Commodore Way Seattle, Washington 98199

Legal Description:

Section 11, township 25 north, range 3 east, Lawton Park, portions of

Blocks 3, 4, and 5.

2. PROPERTY HISTORY AND PREVIOUS INVESTIGATIONS

The following sections describe the history of the Property and summarize previously conducted investigations.

2.1 PROPERTY DESCRIPTION

The Property runs from West Commodore Way south to the Burlington Northern rail line. Most of the Property has been paved, except the area of the former rail lines behind the warehouse and tank yard located on the east side of the Property. A two-story office building is located in the center of the Property near West Commodore Way. A threesection warehouse is located behind this office building, and a former boiler room is connected to the east side of the warehouse via a covered loading dock. An existing openair barreling shed is located northwest of the warehouse. The tank yard is divided into two sections, the Lower Tank Yard Area and the Upper Tank Yard Area, each constructed at a different time. The Lower Tank Yard Area contains six ASTs, and the Upper Tank Yard Area contains eight ASTs that are larger in volume than those in the Lower Tank Yard Area. The south side of the Upper Tank Yard Area banks steeply upward to the fence line and former rail line spur. The surface of the tank yards is unpaved gravel with patches of grass. Immediately to the west of the tank yards are a pump shed and foamite shed (used for fire suppression). Foster Wheeler Environmental's Final Environmental Assessment: Phase II, Volume 1, Appendix A (2001), contains site photographs taken at various points on the Property during the Phase II field activities.

According to available regulatory records and interviews with TOC personnel, there are several underground storage tanks (USTs) on the Property. Two USTs are located on the north side of the office building: an unused heating oil tank is located on the east side of the office building adjacent to the former furnace room; and a gasoline vapor knock-out tank is located along the north side of the Lower Tank Yard Area. The knock-out tank is associated with the overhead fuel loading racks located just north of the lower yard of the tank yard. There are no known drinking water wells on the Property, but several monitoring wells from previous site investigations are installed within the shallow water-bearing zone beneath the Property.

2.2 PROPERTY OPERATION

The Property is used by TOC for a variety of purposes: it is the site for TOC administrative offices; it serves as a tank yard for petroleum products; and portions are used to store equipment and supplies for service stations such as fuel dispensers, fascia, signs, and miscellaneous supplies (most of these materials are kept near the barreling shed or in part of the warehouse). The primary function of the facility is to store petroleum products in the ASTs in the tank yards. The ASTs range in size from approximately 5,225 barrels to 23,000 barrels. Fuel distribution lines connect the ASTs to an extensive manifold system that is connected to the truck loading rack and a waterfront dock located in the ship canal across West Commodore Way. Fuel is off-loaded from barges and tankers in the ship canal and transferred to the ASTs. From there the fuel is transferred to tanker trucks via the overhead loading rack outside of, and just north of, the Lower Tank Yard Area.

2.3 PROPERTY HISTORY

Information about the history of the Property was derived from a review of available documents, historical photographs, and regulatory records. Former and current employees of TOC were also interviewed.

The Property was acquired by TOC around 1941. Historical photographs (presented in Volume 1, Appendix B of the Final Environmental Site Assessment: Phase II [Foster Wheeler Environmental 2001]) demonstrate a number of changes that have taken place at the Property since 1936. Prior to 1936, the Property appears to have been used for agricultural purposes. The photographs and fire insurance maps show the Rattan Furniture factory, a sawmill, dry kiln, and the U.S. Coast Guard facility located across West Commodore Way.

The 1946 photograph shows the original office building, the Lower and Upper Tank Yard Areas, the pump shed and foamite building, a former barreling shed located immediately west of the office building, and overhead fuel loading racks. The unpaved surface of the Lower Tank Yard Area is noticeably dark and remains unclear whether this is an artifact of the photograph or indicative of site operations. Numerous rows of empty 55-gallon drums are located to the west of the Property, which according to interviews with TOC employees, were filled with petroleum products in the former barreling shed, rolled under West Commodore Way via a barrel incline and tunnel to the TOC dock in the ship canal, and then loaded onto ships. This operation was conducted primarily to support World War II efforts. Interviewees described the former barreling shed as an operation where laborers were hired

to fill barrels and load them onto ships. The filling apparatus was controlled by pulling a line to dispense fuel into a drum. One pull of the line would automatically dispense 50 gallons of fuel into the 55-gallon drums via an overhead nozzle at a very high rate, and if the line was pulled twice, then twice as much fuel would be dispensed (and so on). The interviewees stated they had heard of many times when drums were overfilled and fuel spilled on the ground.

In 1946, a large volume of fuel arrived at the Property via rail cars. There were four rail spurs off the main Burlington Northern line leading onto the TOC property: one spur ran behind the former barreling shed and the other lines led toward the southwest end of the Upper Tank Yard Area. One of these lines ran all the way behind the Upper Tank Yard Area toward 27th Avenue West. Fuel was transferred from tanker cars via hoses to a subsurface line, from which the fuel was pumped into the ASTs. Careful examination of the historical photograph from 1946 shows what appear to be equally-spaced dark patches of soil on the rail spur on the south side of the Upper Tank Yard Area. According to the interviewees, the tank cars were off-loaded with hoses; therefore, these dark patches may be related to petroleum leaks and spills that occurred during off-loading operations. After being disconnected, it was not uncommon for residual fuel to drain from the lines and onto the ground.

The historical photograph from 1960 (Volume 1, Appendix B, Foster Wheeler Environmental 2001) depicts the Property mainly as it is today. A warehouse building, built in the late 1940s according to the Puget Sound Regional Archives, is located south of the office building, parallel with the rail spurs (several of the rail spurs were deactivated by the time of this photograph). A new barreling shed, built in 1952 according to the Puget Sound Regional Archive files, is located just northwest of the warehouse, and the boiler house was added in 1950 (Puget Sound Regional Archive files). The barreling shed seen in the 1946 photograph is no longer on the Property in the 1960 photograph.

According to interviewees, TOC operated a fleet of fuel delivery service trucks which were serviced across the street at the vehicle maintenance facility at 2750 West Commodore Way. The vehicles in the center of the 1960 photograph, toward the west side of the Property, may be related to this operation. Also visible in this photograph are three smaller ASTs, immediately north of the new barreling shed. According to TOC employees, these ASTs were used to store used motor oil. The immediate area surrounding the ASTs was unpaved, but an outer area was paved. The interviewees also indicated that this area had been

impacted by several small spills and leaks related to used motor oil transfer and storage activities.

By 1974 a new vehicle maintenance facility was added on the adjacent property (2800 block) immediately west of the Property. After TOC terminated its fuel truck distribution service, this building was leased to Precision Engineering Specialists (a marine and engine repair facility) in 1976.

According to TOC employees, PCP was mixed in a small AST near the west wall of the Lower Tank Yard Area. The PCP was transferred via underground lines to the new barreling shed where 55-gallon drums and 5-gallon drums were filled, rolled onto a loading dock between the warehouse and the barreling shed, and loaded onto rail cars. This operation reportedly occurred for 3 to 4 months during 1967 as part of a military contract. The 1997 photograph shows the Property as it exists today (Volume 1, Appendix B, Foster Wheeler Environmental 2001).

2.4 PREVIOUS INVESTIGATIONS

Previous investigations have not been conducted near the Former PCP/Diesel Mixing Area, the Former Barrel Shed-PCP/Diesel Subsurface Piping Area, or the New Barrel Shed Area.

3. FIELD ACTIVITIES

Field activities at 2737 West Commodore Way included soil borings, hand-auger screening borings, well installation, soil and groundwater sampling, and surveying. The following sections describe the methodology used to complete the field activities.

3.1 SOIL BORINGS

3.1.1 Soil Boring Locations

Fourteen soil borings and hand-auger screening borings were drilled at the Property for the purpose of assessing potential PCP impacts. Boring locations are shown on Figure 3-1. The location, depth, and rationale for each soil boring location is listed below:

Former PCP/Diesel Mixing Area:

- SB-01 was located southeast of the Former PCP/Diesel Mixing Area. The handauger screening boring was advanced to a depth of 14 feet. Groundwater was encountered at a depth of approximately 4.5 feet below ground surface (bgs).
- SB-02 was located northeast of the Former PCP/Diesel Mixing Area. The handauger screening boring was advanced to a depth of 14 feet. Groundwater was encountered at a depth of approximately 7.5 feet bgs.
- SB-03 was located north of the Former PCP/Diesel Mixing Area. The hand-auger screening boring was advanced to a depth of 4 feet. Groundwater was encountered at a depth of approximately 3 feet bgs.
- SB-04 was located northwest of the Former PCP/Diesel Mixing Area. The handauger screening boring was advanced to a depth of 10 feet. Groundwater was encountered at a depth of approximately 10 feet bgs.
- SB-05 was located southwest of the Former PCP/Diesel Mixing Area. The handauger screening boring was advanced to a depth of 14 feet. Groundwater was encountered at a depth of approximately 7 feet bgs.

Former Barrel Shed-PCP/Diesel Subsurface Piping Area:

- SB-26 was located on the east end of the Former Barrel Shed. The boring was advanced to a depth of 20 feet. Groundwater was encountered at a depth of approximately 19 feet bgs.
- SB-27 was located toward the east end of the Former Barrel Shed and west of SB-26. The boring was advanced to a depth of 20 feet. Groundwater was encountered at a depth of approximately 16 feet bgs.
- SB-28 was located towards the middle and south side of the Former Barrel Shed.

 The boring was advanced to a depth of 20 feet. Groundwater was encountered at a depth of approximately 19 feet bgs.
- SB-29 was located on the west end of the Former Barrel Shed. The boring was advanced to a depth of 25 feet. Groundwater was encountered at a depth of approximately 20 feet bgs. Monitoring well 01MW-06 was installed at this location.

- SB-30 was located on the west end of the Former Barrel Shed. The boring was advanced to a depth of 25 feet. Groundwater was encountered at a depth of approximately 25 feet bgs.
- SB-31 was located on the west end of the Former Barrel Shed and north of SB-30. The boring was advanced to a depth of 25 feet. Groundwater was encountered at a depth of approximately 25 feet bgs.

New Barrel Shed Area:

- SB-06 was located just south of the New Barrel Shed Area. The boring was advanced to a depth of 25 feet. Groundwater was not encountered.
- SB-07 was located south of the New Barrel Shed Area between the former main rail line and the inner spur line. The boring was advanced to a depth of 25 feet.

 Groundwater was not encountered.
- SB-08 was located between the rail spur lines and south of the warehouse. The boring was advanced to a depth of 25 feet. Groundwater was not encountered.
- SB-51 was located near the center of the New Barrel Shed Area by one of the filling points. The boring was abandoned before installation because of the presence of a concrete-lined trench, which was impossible to hand auger through.
- SB-25 was located on the north side of the New Barrel Shed Area beneath grates covering the associated piping. The boring was abandoned after 6 inches due to refusal caused by a concrete floor.

3.1.2 Soil Boring Methods

The soil borings were drilled with a CME 75 High Torque drill rig operated by Cascade Drilling. The augers used were 4.25-inch inner diameter (ID) hollow stem. Split-spoon samples were driven every 5 feet to describe lithologies and collect soil samples. In most borings, an extra split-spoon sample was driven at the 2-foot-depth interval. Split-spoon samples were 12 inches long (not including the shoe), 2-inch ID, and driven by a 300-pound down-hole jar hammer. Soil borings near the Former PCP/Diesel Mixing Area, including SB-51 and SB-25 at the New Barrel Shed Area, were completed using a stainless steel hand auger. Appendix A contains the soil boring logs.

3.1.3 Soil Sampling Methods

Soil samples were collected directly from the split-spoon and placed in the appropriate laboratory-supplied sample container. Samples collected using the hand auger were composited in a stainless steel bowl prior to filling the sample containers. The analyses requested for each sample depended on the location. In general, the samples were analyzed for:

- Gasoline using Washington State Department of Ecology's (Ecology) Northwest total petroleum hydrocarbon-gasoline extended (NWTPH-Gx) Method
- Benzene, toluene, ethylbenzene, and xylene (BTEX) using U.S. Environmental Protection Agency (EPA) 8021B
- Diesel and oil using Ecology's Northwest total petroleum hydrocarbon-diesel extended (NWTPH-Dx) Method
- PCP using EPA Method 8270-sim (selected ion monitoring)
- Carcinogenic polyaromatic hydrocarbons (cPAHs) using EPA Method 8270-sim
- Total metals (or only lead) using EPA 6000/7000 series
- Volatile petroleum hydrocarbons and extractable petroleum hydrocarbons by modified Ecology interim total petroleum hydrocarbon (TPH) policy method

The gasoline/BTEX and volatile organic compound (VOC) samples were collected first out of each spoon, or from the stainless steel bowl prior to compositing. The sample containers were placed in sealed baggies and placed directly into a chilled cooler for transport to the laboratory. Soil samples were labeled according to their soil boring location and depth collected (i.e., SB-43-2 = soil boring 43, sample depth 2 feet). North Creek Analytical (Bothell, Washington) received the samples at the end of each day in the field.

The split-spoons and hand augers were decontaminated by a thorough washing in soapy water, rinsing with water, rinsing with methanol, and finally rinsing with deionized water supplied by the analytical laboratory.

3.1.4 Field Screening Methods

Soil samples were screened in the field using a photoionization detector (PID), HNu Model P101, equipped with a 10.2-electron-volt lamp. Some samples were screened using a Hanby Field Test Kit designed for detecting petroleum in soil. The Hanby Kit is a semi-quantitative kit in which 5 grams of soil are mixed with a proprietary extract, then the

extract is decanted and mixed with a catalyst and agitated for 4 minutes. The extract reacts with the catalyst. The color change in the extract indicates the type of fuel present and an approximate concentration. Samples extracted in the field were compared to photographs of standards supplied by the Hanby Kit manufacturers.

3.2 MONITORING WELL INSTALLATION

Eight new monitoring wells were installed and developed during the Phase II investigation activities. The locations for the new monitoring wells and the existing wells are shown in Figure 3-2. Table 3-1 presents the available well construction information for wells at 2737 West Commodore Way. One of the new wells (01MW-06) was installed specifically for the evaluation of PCP- and petroleum-impacted soil and groundwater.

3.2.1 Monitoring Well Location

One monitoring well, 01MW-06 (SB-29), was located along the former location of the pipeline used to transfer the mixture of PCP and diesel. This location is also directly beneath the Former Barrel Shed Area. The well is screened within the shallow waterbearing zone.

3.2.2 Well Installation Methods

Monitoring well 01MW-06 was installed as described in Section 3.1.2.

3.2.3 Installation Materials

Monitoring well 01MW-06 was installed with flush-threaded, 2-inch ID polyvinyl chloride (PVC) casing with variable screen lengths of 0.010-inch slots. The sand pack consists of a 20-40 Colorado silica sand around the screen to 2 feet (typically) above the top of the screen. The sand pack is overlain by a bentonite seal of at least 1 foot (typically). Concrete and flush-mount monuments were used to complete the wells. Heavy duty well monuments were used for wells in high vehicular traffic areas.

3.2.4 Well Development

Monitoring well 01MW-06 was developed following installation. For development, the well was surged frequently with a double stage purge pump, and was pumped of at least three well volumes of water. The tubing was changed on the pump between each

monitoring well, and the pump was also decontaminated by washing and pumping soapy (Liquinox) water, and rinsing with deionized water supplied by the analytical laboratory.

Visual observations and measurement of physical parameters provided monitoring of the development progress. Measurements during development and well sampling were made for pH, temperature, conductivity, and turbidity using a Horiba U-10 Water Quality Checker. The meter was calibrated before each use using standards supplied by the instrument provider. Table 3-2 provides the final parameters measured during the sampling and development of all the monitoring wells, including 01MW-06.

3.3 SURVEYING

The surveying of the soil boring locations was conducted by Inca Engineering, Inc. Horizontal control was specified to 0.1 foot, based on Washington State Plane Coordinate System, North America Datum (NAD) 83/91 City of Seattle. Vertical control was specified to 0.01 foot, based on the National America Vertical Datum (NAVD) 88 City of Seattle. A summary of the survey results is presented in Table 3-1.

3.4 WATER LEVEL MEASUREMENTS

Water levels measurements were made from all available wells. Depth to groundwater measurements were subtracted from surveyed measuring point elevations to produce the water level elevations (potentiometric head), as shown in Table 3-3. A potentiometric surface for the Property is shown in Figure 3-3.

3.5 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater samples were collected from the previously installed wells (01MW-01 through 01MW-04) November 16, 2000. The new well was sampled November 30 through December 5, 2000. Water samples were collected in laboratory supplied glassware and delivered to the laboratory each evening after sampling.

Samples were collected using a peristaltic pump, disposable high-density polyethylene (HDPE) tubing, and silicone tubing. At each well the HDPE tubing was inserted into the water, approximately the center of the well screen. A piece of disposable silicon tubing was connected to the HDPE tubing and threaded through the pump. Both pieces of tubing were discarded after each use and new tubing was selected for the next well.

The analyses requested for each groundwater sample depended on the location. In general, the water samples were analyzed for:

- Gasoline using Ecology's NWTPH-Gx Method
- BTEX using EPA Method 8021B
- Diesel and oil using Ecology's NWTPH-Dx Method
- PCP using EPA Method 8270-sim
- Total metals (or lead only) using EPA 6000/7000 series

Groundwater samples (SB-01-W and SB-02-W) were collected from SB-01 and SB-02, respectively, in the Former PCP/Diesel Mixing Area. The samples were collected by lowering a disposable HDPE bailer directly into the open borings. The groundwater was turbid which may have affected the measured groundwater concentrations.

3.6 INVESTIGATION DERIVED WASTE

Soil cuttings from the Property were transferred to the stock piles on the Property for disposal by TOC. Decontamination water was collected by the drilling company in 55-gallon type 1A drums, transferred to TOC, and stored behind the warehouse at 2737 West Commodore Way and near a container at 2750 West Commodore Way.

4. ANALYTICAL RESULTS

Soil samples were analyzed by North Creek Analytical Labs in Bothell, Washington. Where applicable, results were compared to Ecology's proposed Method A soil cleanup levels for unrestricted land use. Ecology's proposed rule does not differentiate between industrial property and unrestricted land use, as the current regulations do, and is expected to be adopted within 6 months. The proposed soil cleanup levels for diesel and oil are higher than the current Model Toxics Control Act (MTCA) Method A cleanup levels, while the proposed soil cleanup levels for gasoline have been divided into two categories: gasoline without benzene and less than 20 percent aromatics between equivalent carbon (EC) 8 and EC16 (proposed soil cleanup level of 100 milligrams per kilogram [mg/kg]); and all other gasoline mixtures (proposed soil cleanup level of 30 mg/kg). The proposed BTEX cleanup levels for soil have been lowered. For PCP, the soil results were compared to the MTCA Method B carcinogenic cleanup level for residential soils, and PCP concentrations in

groundwater samples were compared to the most restrictive federal maximum contaminant levels (MCLs). Other groundwater contaminant concentrations were compared to the MTCA Method A cleanup levels for groundwater. The analytical results are presented in Tables 4-1 through 4-4.

Appendix B contains the laboratory data packages for the samples collected at the Property. In addition to the data from the property located at 2737 West Commodore Way, several of the data packages contain results for samples collected at other TOC properties (2750 and 2805 West Commodore Way). The data packages are presented in their entirety to allow the reader to evaluate the data relative to the quality control data associated with the environmental samples from the property.

4.1 FORMER PCP/DIESEL MIXING AREA

Five hand-auger screening borings were drilled near the Former PCP/Diesel Mixing Area in the southwest corner of the Lower Tank Yard Area. As shown in Table 4-1, gasoline was detected above the proposed MTCA Method A cleanup level of 100 mg/kg in SB-02 at a depth of 2 feet at a concentration of 217 mg/kg. The samples collected from a depth of 5 to 14 feet in SB-02 did not contain any concentration of gasoline-impacted soil above the method reporting limit. Diesel and oil were detected above the proposed MTCA Method A cleanup level of 2,000 mg/kg in SB-03 at the surface at concentrations of 2,010 mg/kg and 4,780 mg/kg, respectively. Gasoline, diesel, and oil were detected above the proposed MTCA Method A cleanup level in SB-03 at a depth of 2 feet at concentrations of 1,670 mg/kg, 14,700 mg/kg, and 6,350 mg/kg, respectively. SB-03 was abandoned at a depth of 4 feet due to the presence of perched water entering the hole, thus making it impossible to collect a discrete sample without compromising the integrity of the sample. Gasoline, diesel, and oil were detected above the proposed MTCA Method A cleanup level in SB-04 at a depth of 2 feet at concentrations of 513 mg/kg, 5,670 mg/kg, and 2,320 mg/kg, respectively.

Lead was not detected in any of the soil borings above the MTCA cleanup level of 250 mg/kg.

Borings SB-01 through SB-05 were analyzed for PCP. PCP was detected above the MTCA Method B residential carcinogenic cleanup level (8.33 mg/kg) in surface samples (0.6 inch) at SB-03 (202 mg/kg) and SB-04 (803 mg/kg), and at a depth of 5 feet in SB-04 (20.9 mg/kg). Subsurface samples collected at SB-01, SB-02, SB-04, and SB-05 contained trace

levels of PCP. Some of the detected PCP concentrations may be a byproduct of the handauger drilling method and may not be representative of soil conditions at depth.

The samples from the borings around the Former PCP/Diesel Mixing Area were analyzed for cPAHs. The total concentration of cPAHs were determined by summing the concentrations and including one-half of the reporting limit for nondetects. This conservative approach, though widely accepted, can indicate an exceedance even when no analytes are detected. Consequently, the data used to calculate the total cPAHs need to be considered when making conclusions. Total cPAHs exceeded the current MTCA Method A cleanup level of 1.0 mg/kg in SB-03 in the surface sample (SB03A) and 2-foot depth (SB03B). Concentrations were 1.08 mg/kg and 4.53 mg/kg at the surface and 2-foot sample, respectively. The original boring (SB-03; sample SB-03-0.6) was abandoned due to the presence of perched water passing through petroleum-impacted soil, making it impossible to collect undisturbed samples from deeper intervals. The total concentrations of cPAHS exceeded the MTCA cleanup level in SB-04 at the surface, 2-foot depth, and 5-foot depth with concentrations of 2.67 mg/kg, 1.70 mg/kg, and 8.09 mg/kg, respectively. The sample collected from the bottom of SB-04 did not exceed the cleanup level for total cPAHs.

Four additional surface samples (SS-01 through SS-04) were collected around the Former PCP/Diesel Mixing Area and analyzed for cPAHs and PCP. PCP was detected above the method reporting limit in one sample (SS-01) at a concentration of 3.87 mg/kg. None of the additional surface samples exceeded the MTCA Method B cleanup level for PCP. According to the calculations shown on Table 4-2, the concentrations of cPAHs for both SS-01 and SS-03 totaled 1.75 mg/kg, thus exceeding the cleanup level. However, a detailed evaluation of the data reveals that no individual cPAH was detected above the method reporting limit, and the total cPAHs calculation is due to the conservative data manipulation approach in which one-half of the reporting limit is added to the total for nondetects. Total cPAHs did exceed the cleanup level at SS-04 with a calculated total concentration of 9.26 mg/kg.

Groundwater

Gasoline and BTEX were not detected above the proposed MTCA Method A cleanup levels for groundwater. Diesel was detected above the proposed MTCA Method A cleanup level in SB-01-W and SB-02-W at concentrations of 10.9 milligrams per liter (mg/L) and 3.60 mg/L, respectively. PCP was detected above the MCL in SB-02-W at a concentration of

1.64 micrograms per liter (μ g/L). cPAHs were not detected above the method reporting limit.

4.2 FORMER BARREL SHED-PCP/DIESEL SUBSURFACE PIPING AREA

Soil

Six soil borings (SB-26 through SB-31) were installed near the Former Barrel Shed. Gasoline was detected above the proposed MTCA Method A cleanup level at a depth of 5 feet in SB-27 at a concentration of 121 mg/kg. Samples from the 15-foot and 20-foot-depth interval in SB-27 did not contain concentrations of petroleum-impacted soil above the method reporting limit. Gasoline and diesel were detected above the proposed MTCA Method A cleanup level in SB-29 at a depth of 2 feet and 5 feet (gasoline only) as shown in Table 4-1. Gasoline was detected above the proposed MTCA Method A cleanup level in SB-30 at a depth of 2 feet at a concentration of 5,120 mg/kg. Gasoline, diesel, and oil were detected above the proposed MTCA Method A cleanup level in SB-31 at a depth of 2 feet at concentrations of 577 mg/kg, 11,400 mg/kg, and 7,730 mg/kg, respectively.

Lead was not detected above the current MTCA Method A cleanup level in the borings near the Former Barrel Shed.

The concentration of cPAHs exceeded the current MTCA Method A cleanup level in SB-29 at a depth of 2 feet. The exceedance was due to the conservative approach used of summing one-half of the reporting limit for nondetects. It should be noted that only one cPAH (benzo[a]pyrene) was detected above the method reporting limit.

Groundwater

One groundwater sample was collected from 01MW-06 and analyzed for PCP, petroleum products, and lead. PCP was detected above the MCL (1.0 μ g/L) at a concentration of 1.80 μ g/L.

4.3 NEW BARREL SHED AREA

Three soil borings were attempted in the New Barrel Shed Area. Soil samples were analyzed for PCP, petroleum, and total lead. One sample (SB-07-5) contained concentrations of gasoline, benzene, ethylbenzene, and xylene above the proposed MTCA Method A cleanup levels. SB-51 and SB-25 were not completed because a concrete slab was encountered in both borings at a shallow depth (< 1.5 feet).

5. CONCLUSIONS AND RECOMMENDATIONS

5.1 SITE GEOLOGY

The Puget Sound Basin is a convex-eastward basin lying between the Cascade Range and the Olympic Mountains (coastal range). The basin is open to the north and connects to the Pacific Ocean via the Strait of Juan de Fuca. The Puget Sound Basin has been inundated with continental ice during the Pliestocene. At least five major advances and several lesser advances are recorded (Galster and Laparde 1991), resulting in the deposition of several glacial and nonglacial deposits. The most common unit, and applicable to the TOC Property, is the Vashon Drift. The Vashon Drift is divided into the Lawton Clay, Esperance Sand, Vashon Till, and Recessional deposits. The Lawton Clay, characterized by laminated dark gray clay and light gray silt, forms the basal unit and represents the deposition of sediments in a lake that formed as the Puget lobe advanced south and blocked the northern part of the Puget Sound Basin. The upper contact of the Lawton is generally transitional with the Esperance Sand which represents the advance outwash of the Vashon glacier. It is commonly a fine to medium sand, with silt beds and lenticular channel deposits of gravel (Galster and Laparde 1991). The Vashon Till is a basal lodgement till that mantles much of Seattle and generally ranges from gravely, sandy silt to silty sand with varied amounts of clay and scattered cobbles and boulders.

Soil types beneath the Property are consistent in the six soil borings installed to the west at 2805 West Commodore Way. In general, the upper 10 to 15 feet of the site consists of silty fine-grained sand with occasional minor gravel (possible Vashon Till); the material is dry, dense, tan to gray, and odorless. From a depth of 15 to 25 feet, the site consists of well sorted, fine-grained sand (possible Esperance Sand); the color changes from brown to gray, with a slight increase in grain size, at the water table. In several borings at 2737 West Commodore Way and across the street (2750 West Commodore Way), fine-grained silt/clay (possible Lawton Clay or transition zone) was encountered near sea level.

Cross sections were developed based on the boring logs from the Phase II field activities. Figure 5-1 provides a key showing the locations of the cross sections, which are presented in Figures 5-2 through 5-4.

The cross section for the Lower Tank Yard Area (Figure 5-2) shows well- to poorly sorted sand in most borings. SB-24 and SB-18 had layers of silty sand over the well-sorted sand

that formed the aquifer unit. In three of the borings, impermeable silt and/or clay was found in the bottom at depths ranging from 17 feet (SB-24) to 30 feet (SB-18).

Figure 5-3 shows the cross section beneath the Former Barrel Shed. In general, the subsurface consists of well-sorted sand with a layer of silty sand of varying thicknesses. Gravelly material is found at the surface and to a depth of 5 feet in SB-29 and SB-33. Groundwater is found consistently in the well-sorted sand at a depth of 20 feet.

Figure 5-4 shows the cross section beneath the Former AST Area extending to the south by the Former Barrel Shed Area. In general, the area is underlain by silty, sandy gravel up to 5 feet thick in places (beneath the Former ASTs). A silty sand layer is found up to 15 feet deep in SB-43 and SB-34, and 10 feet deep in SB-33. This is underlain by well-sorted sand that forms the upper aquifer.

5.2 NATURE AND EXTENT OF CONTAMINATION

The following subsections describe the nature and extent of contamination within each area. Summary tables (Tables 5-1 and 5-2) show all the samples exceeding the proposed MTCA Method A or B cleanup levels. Based on the findings of the Phase I reports and recent field activities, in general, petroleum-impacted soil at the Property appears limited to the upper 5 feet of soil in isolated areas. In some cases, petroleum-impacted soil is seen at depths of 10 to 15 feet.

5.2.1 Former PCP/Diesel Mixing Area

Diesel- and oil-impacted soil are present near the Former PCP/Diesel Mixing Area in SB-03 at depths of 0.6 foot and 2 feet, and in SB-04 at a depth of 2 feet. Gasoline was also detected above the cleanup levels in the 2-foot samples collected from SB-02, SB-03, and SB-04. PCP was detected in 17 of the 24 samples analyzed at concentrations ranging from 0.0578 mg/kg (SB-01-14) to 803 mg/kg (SB-04-0.6). In most cases the PCP-impacted soil was limited to the surface. The samples collected from the 2-foot-depth interval in SB-01 through SB-03 do not contain concentrations of PCP above the method reporting limit; however, subsequent samples in SB-01 and SB-02 (SB-03 was terminated at a depth of 2 feet) do contain trace amounts of PCP in the soil. These trace amounts are believed to be a by-product of the sampling method used and not representative of actual soil conditions. The highest concentration of PCP was detected under the fuel lines leading to the manifold (SB-04) where solid PCP crystals are visible in the surface soil; at SB-04 the concentrations

continue to diminish with depth. The additional surface samples collected in the area (SS-01 through SS-04) did not contain concentrations of PCP above the method reporting limit, with the exception of SS-01 (3.87 mg/kg). The PCP concentration in SS-01 was below the MTCA Method B cleanup level. Total cPAHs in SB-03 and SB-04 did exceed the MTCA cleanup level of 1 mg/kg at depths of 0 to 2 feet and 0 to 5 feet, respectively. One surface sample (SS-04) also exceeded the MTCA Method A cleanup level for cPAHs. A review of the field notes did not document the presence of material that would indicate a petroleum release.

The PCP concentration (1.64 μ g/L) in the groundwater sample collected from SB-02 exceeded the MCL of 1.0 μ g/L. However, the sample was turbid and, consequently, the analytical result may have been influenced by sediment in the sample. Diesel did exceed the proposed cleanup level in SB-01-W and SB-02-W; however, the results may have been influenced by the high turbidity of the sample. Based on the groundwater conditions at the Property, and the detection of PCP in the soil and possibly in the groundwater, a downgradient well is recommended in this area.

5.2.2 Former Barrel Shed-PCP/Diesel Subsurface Piping Area

Petroleum-impacted soil was evident in SB-27 at a depth of 5 feet, in SB-29 at depths ranging from 2 to 5 feet, and in SB-30 and SB-31 at a depth of 2 feet.

SB-29 was completed as a well (01MW-06) and contained concentrations of PCP (1.80 μ g/L) above the MCL. Soil samples from boring SB-29 were not analyzed for PCP, therefore, no correlation between soil concentrations and groundwater concentrations could be made.

5.2.3 New Barrel Shed Area

Soil samples collected from the borings behind the New Barrel Shed Area contained petroleum-impacted soil in samples collected from the 5-foot-depth interval in SB-07 (gasoline and benzene). The petroleum-impacted soil is limited in vertical and horizontal extent. Trace levels of PCP exceeded the method reporting limit but were below the cleanup levels.

5.3 RECOMMENDATIONS FOR FUTURE ACTIONS

Based on the conclusions above, Foster Wheeler Environmental recommends future actions for the Property as described in the sections below. The suggestions below include source removal, bioremediation, Risk-Based Corrective Action (RBCA) evaluations, and groundwater monitoring.

In addition to typical fuel related analytes, other parameters may be analyzed to evaluate the natural attenuation process at the site; these parameters include iron, nitrate, sulfate, and dissolved oxygen. Monitored natural attenuation (MNA) is a useful tool to demonstrate compliance regulatory cleanup levels.

According to EPA's Office of Solid Waste and Emergency Response (OSWER) directive, titled Use of Monitored Natural Attenuation at Superfund RCRA Correction and UST Sites (April 1999), MNA is most appropriate when used in conjunction with other remedial actions or as a follow-up remediation measure. At this particular site, some petroleum source removal activities have been conducted and additional activities are recommended depending on the area. Bioremediation and MNA, in conjunction with the quarterly monitoring of groundwater movement and petroleum and BTEX concentrations, will provide useful information to evaluate groundwater movement and monitor the effectiveness of the source removal and bioremediation activities, coupled with the natural attenuation of contaminants as they undergo degradation. RBCA evaluations should be conducted to ensure that soil and groundwater impacts proposed to be addressed by MNA do not present unacceptable threats to the environment or to the current or future inhabitants of the property.

5.3.1 Former PCP/Diesel Mixing Area

During the Phase II field activities, a hand auger was used to collect screening samples around the Former PCP/Diesel Mixing Area. While the hand-auger screening samples did provide useful data, the integrity of the samples collected at depths greater than 2 feet may have been influenced by overlying material in the boring. Consequently, further quantitative samples are recommended for this area to further define the lateral and vertical extent of PCP-impacted soil. Foster Wheeler Environmental recommends that a portable drilling and sampling device (i.e., Minute-man) be used to collect additional samples. A down-gradient well is also recommended for the area to evaluate if groundwater has been impacted by historical operations. Based on the screening samples, it is expected that the additional

sampling will confirm the premise that the PCP-impacted soil is limited to the surface soil near the fuel lines (location of SB-04) leading to the manifold system. A possible outcome is a limited removal action, whereby the top 2 feet of soil surrounding the immediate area is excavated. Continued monitoring of the groundwater beneath the site for petroleum and natural attenuation parameters should be considered. Because the area is fenced and secured, the potential for exposure to contaminant-impacted soil is minimized.

5.3.2 Former Barrel Shed-PCP/Diesel Subsurface Piping Area

Petroleum-impacted soil was limited to the upper 5 feet of soil in two adjacent borings (SB-27 and SB-29) and in the upper 2 feet in two other borings (SB-30 and SB-31). Because the area is paved and the soil is not accessible to the public or on-site workers, the soil does not present a direct exposure pathway. However, continued groundwater monitoring of 01MW-06 is recommended to evaluate the PCP trends present in the groundwater and to ensure contaminants do not leach out of the soil into the groundwater.

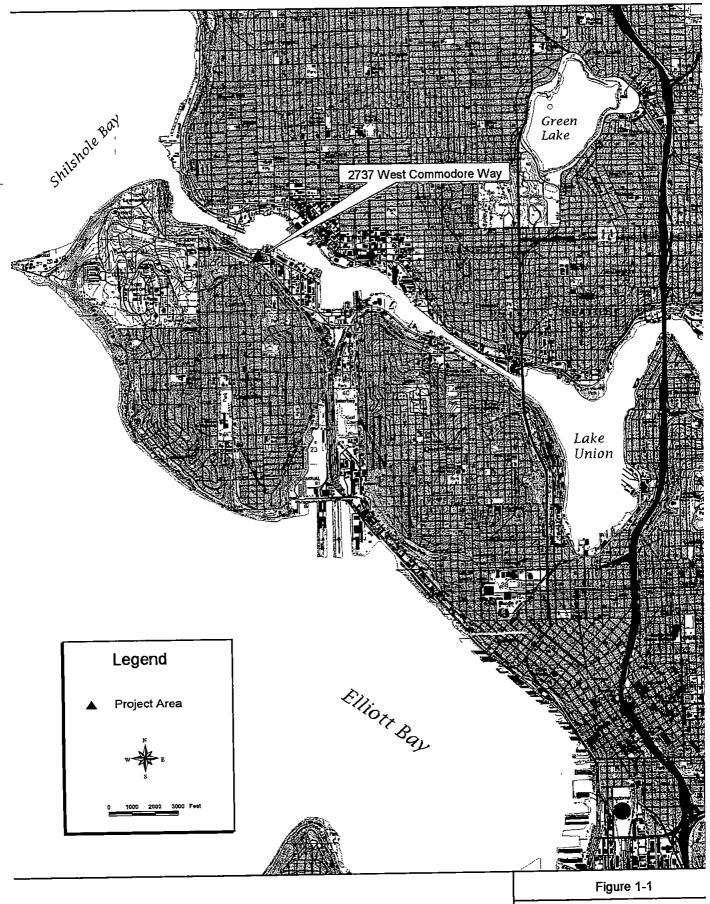
5.3.3 New Barrel Shed Area

Petroleum-impacted soil was limited to SB-07 at depths ranging from 2 to 5 feet. One possible option for the area is the limited removal of soil exceeding cleanup levels near SB-07. This area may be addressed using the RBCA evaluations mentioned in Section 5.3.

Borings planned at the New Barrel Shed Area were abandoned because of refusal at each location. Foster Wheeler Environmental recommends that one soil boring be installed in the parking area directly north of the New Barrel Shed Area. The boring should be completed as a monitoring well to evaluate potential groundwater impacts.

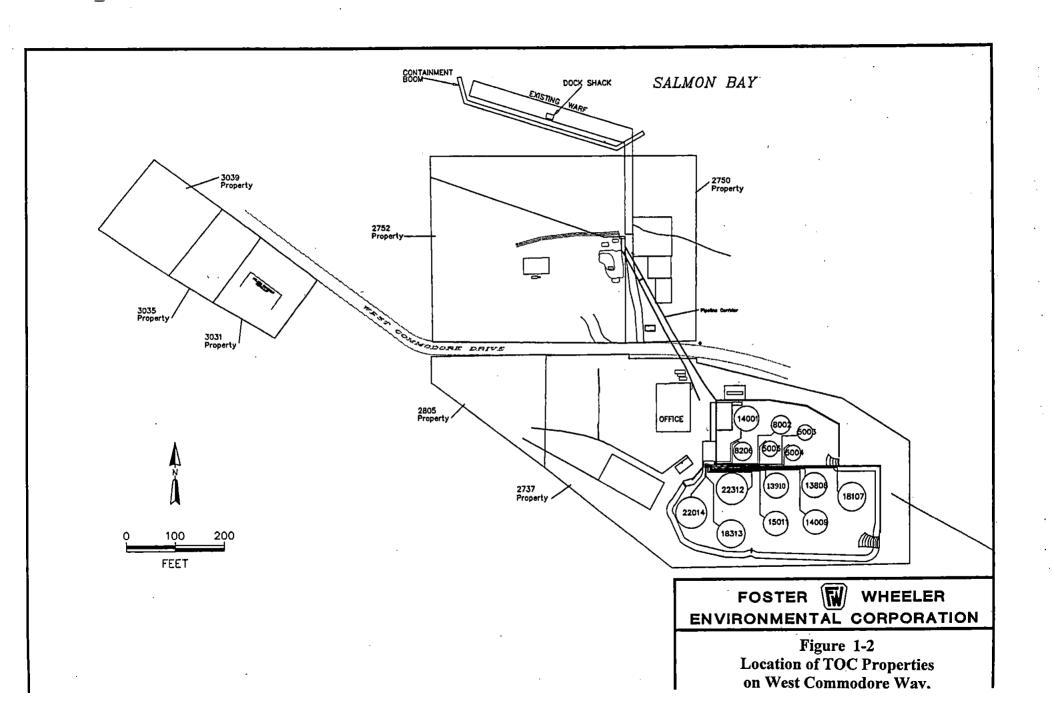
6. REFERENCES

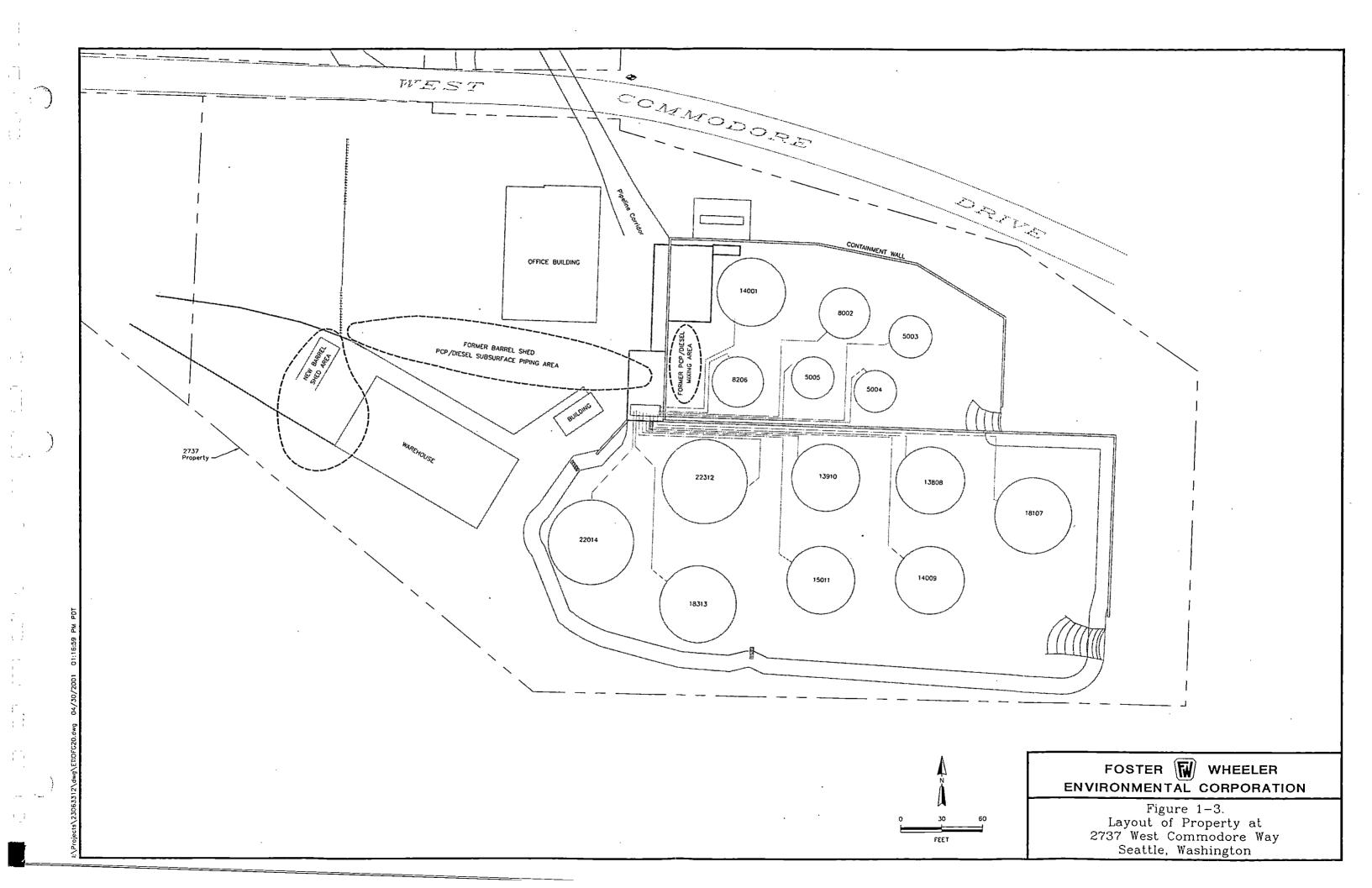
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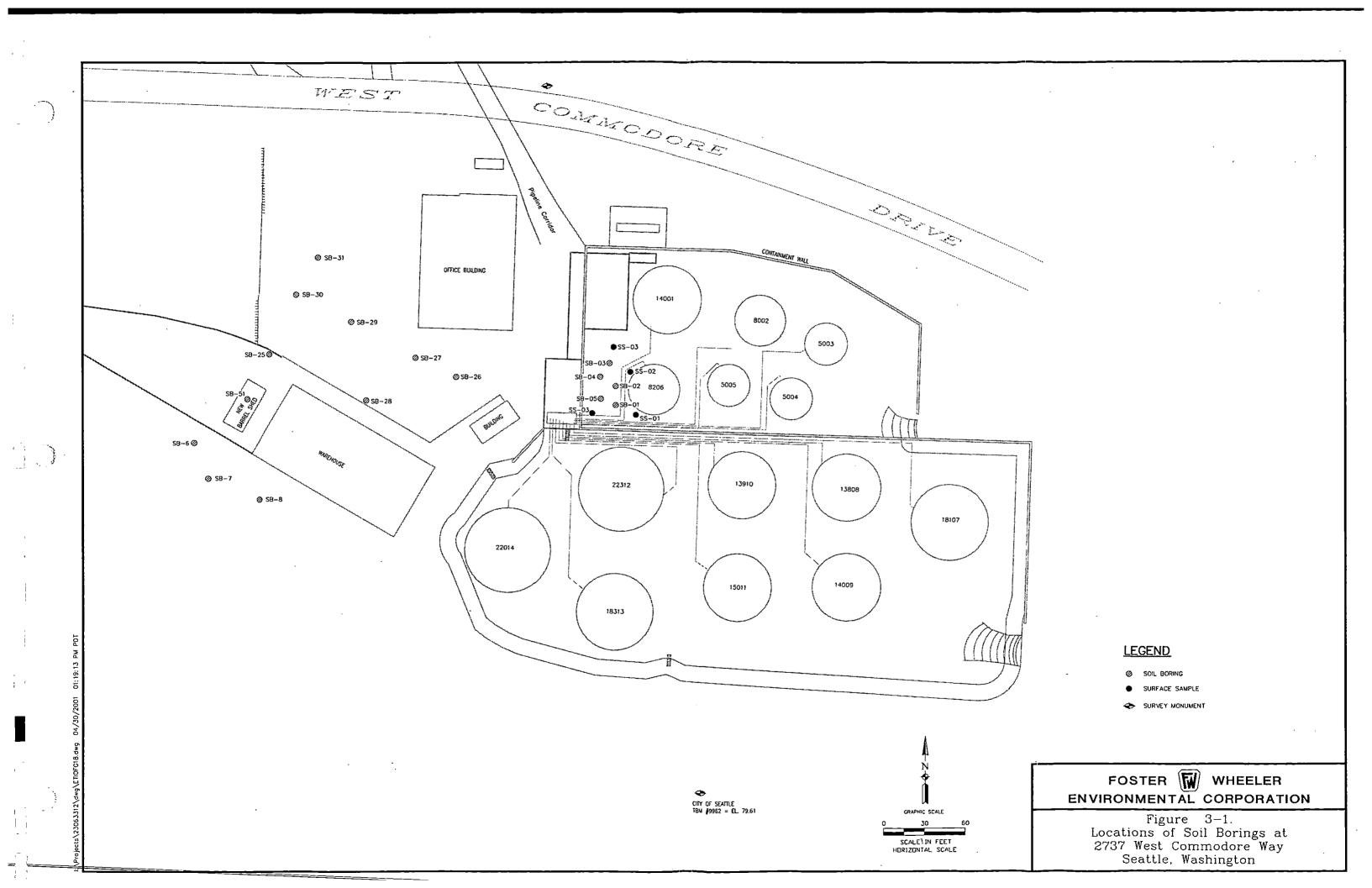


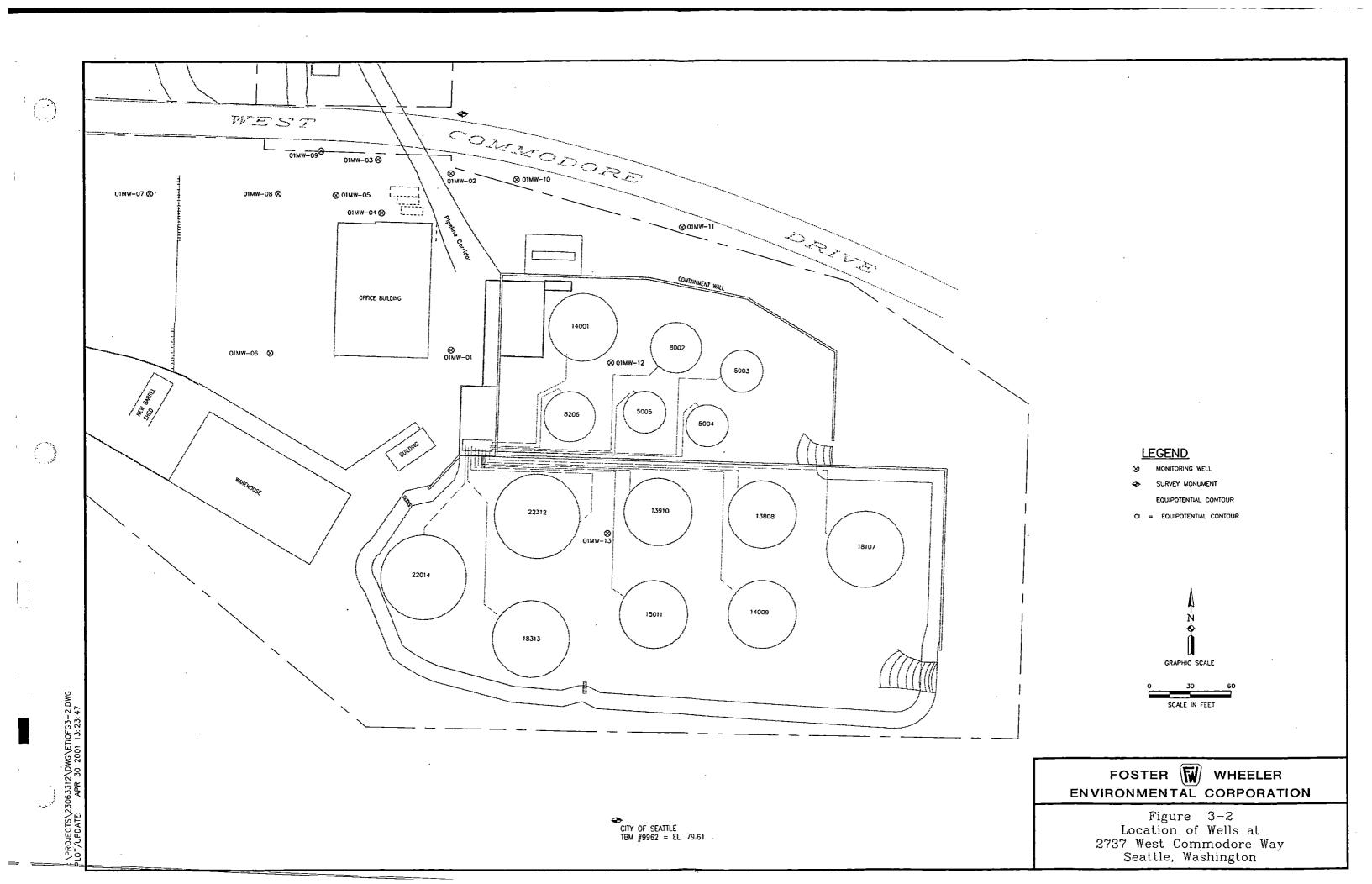
Time Oil Company
Phase II Environmental Site Assessment

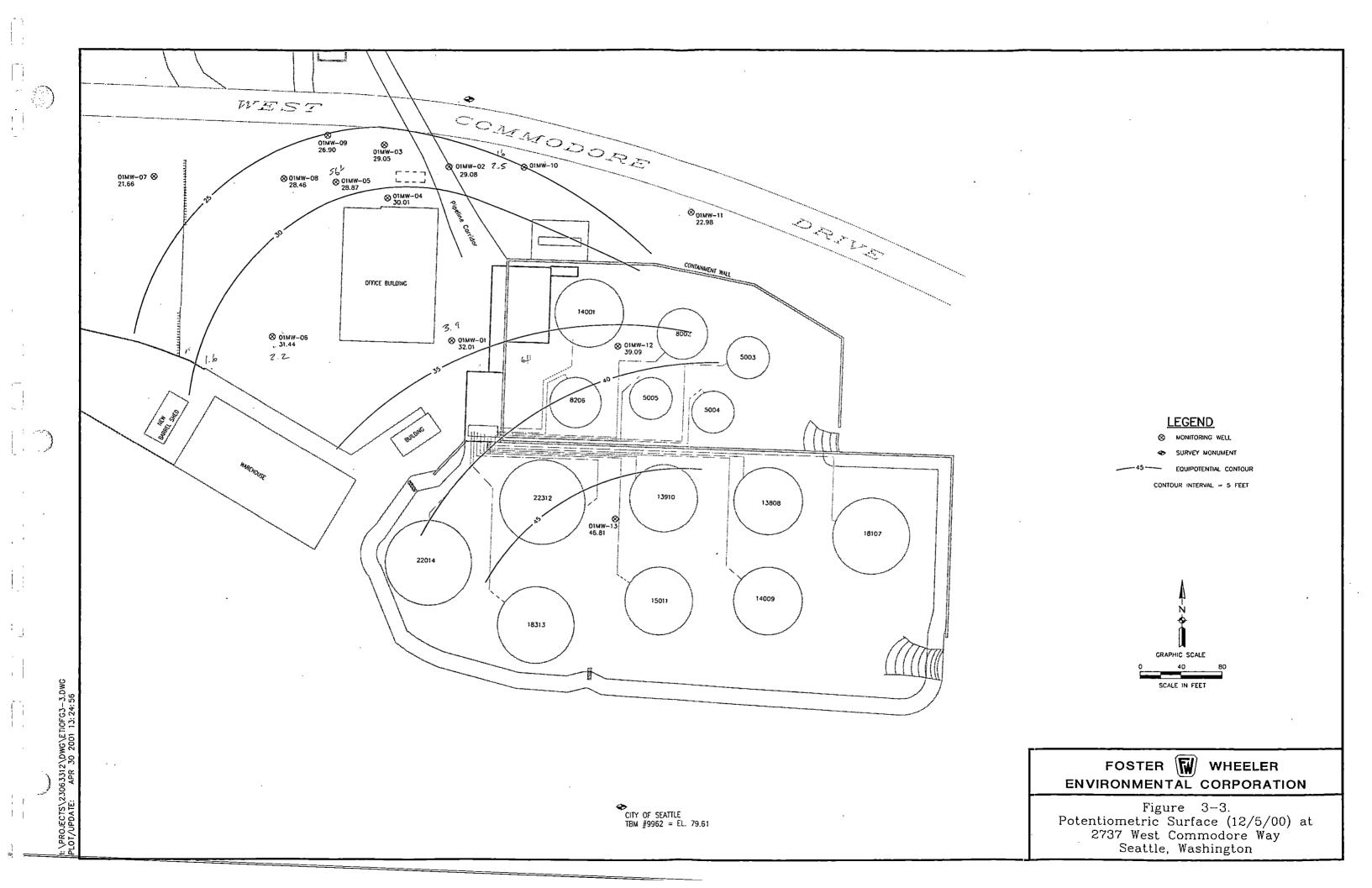
Location of Property at 2737 West Commodore Way

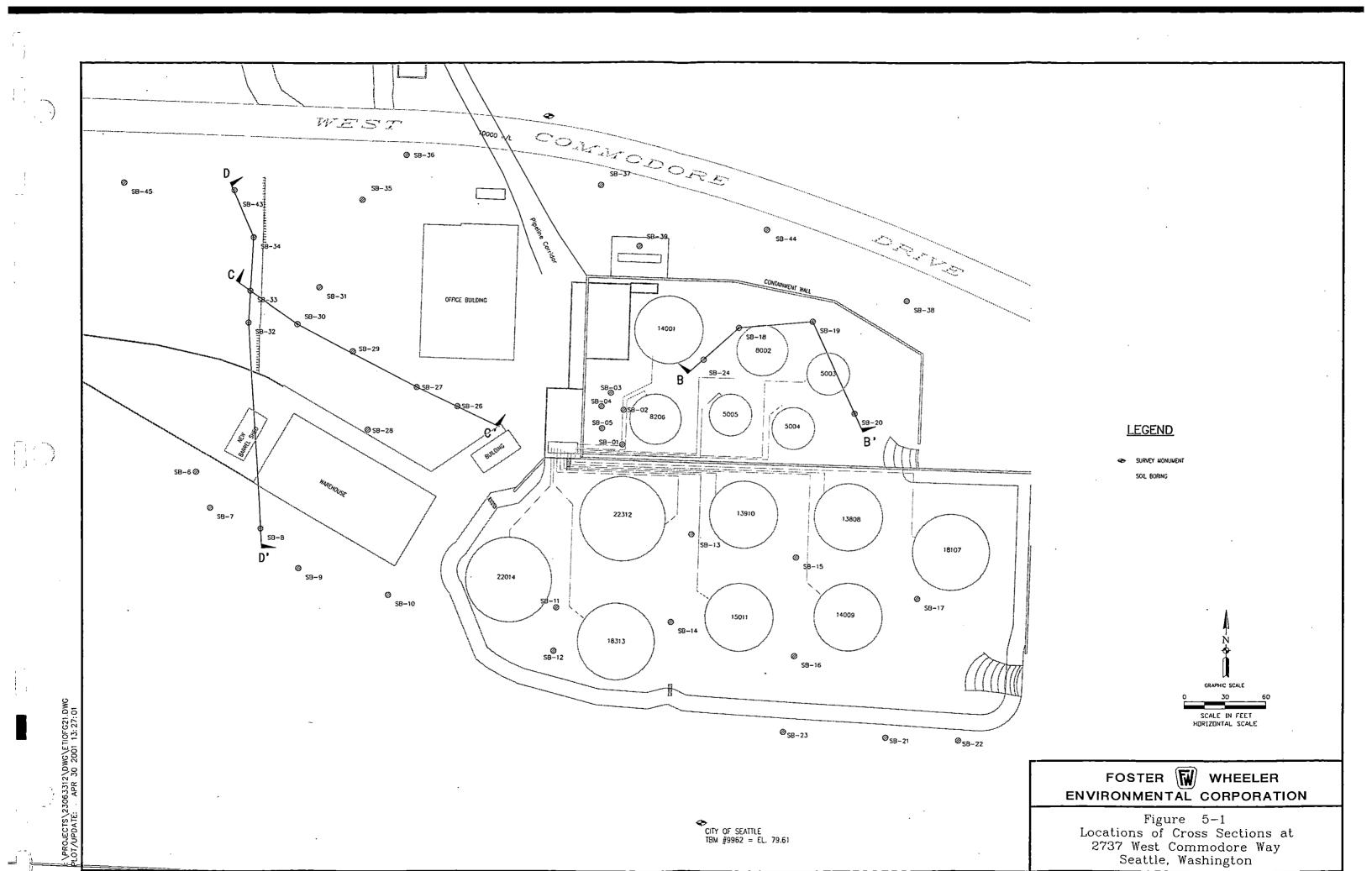


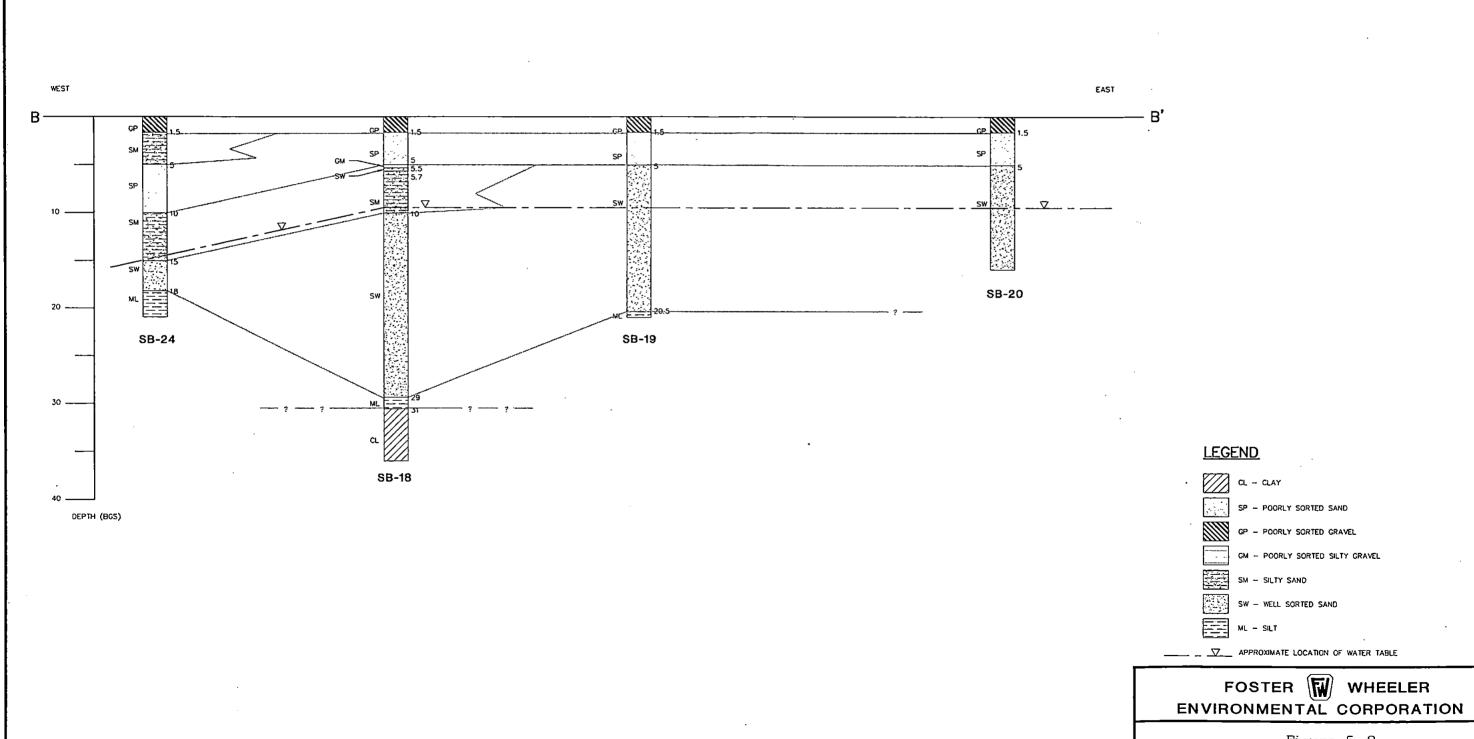






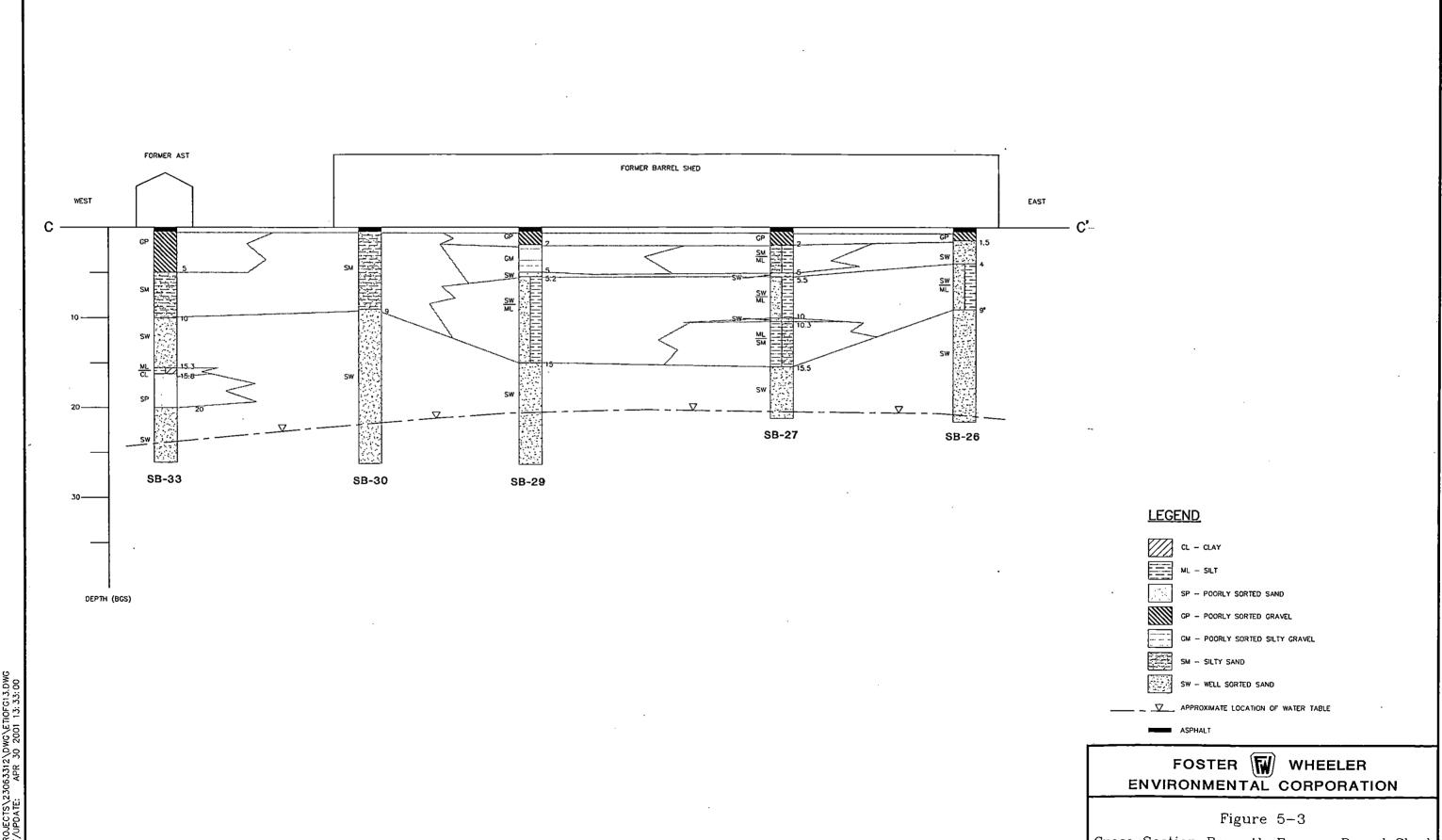






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Figure 5-2 Cross Section Beneath Lower Tank Yard



Cross Section Beneath Former Barrel Shed

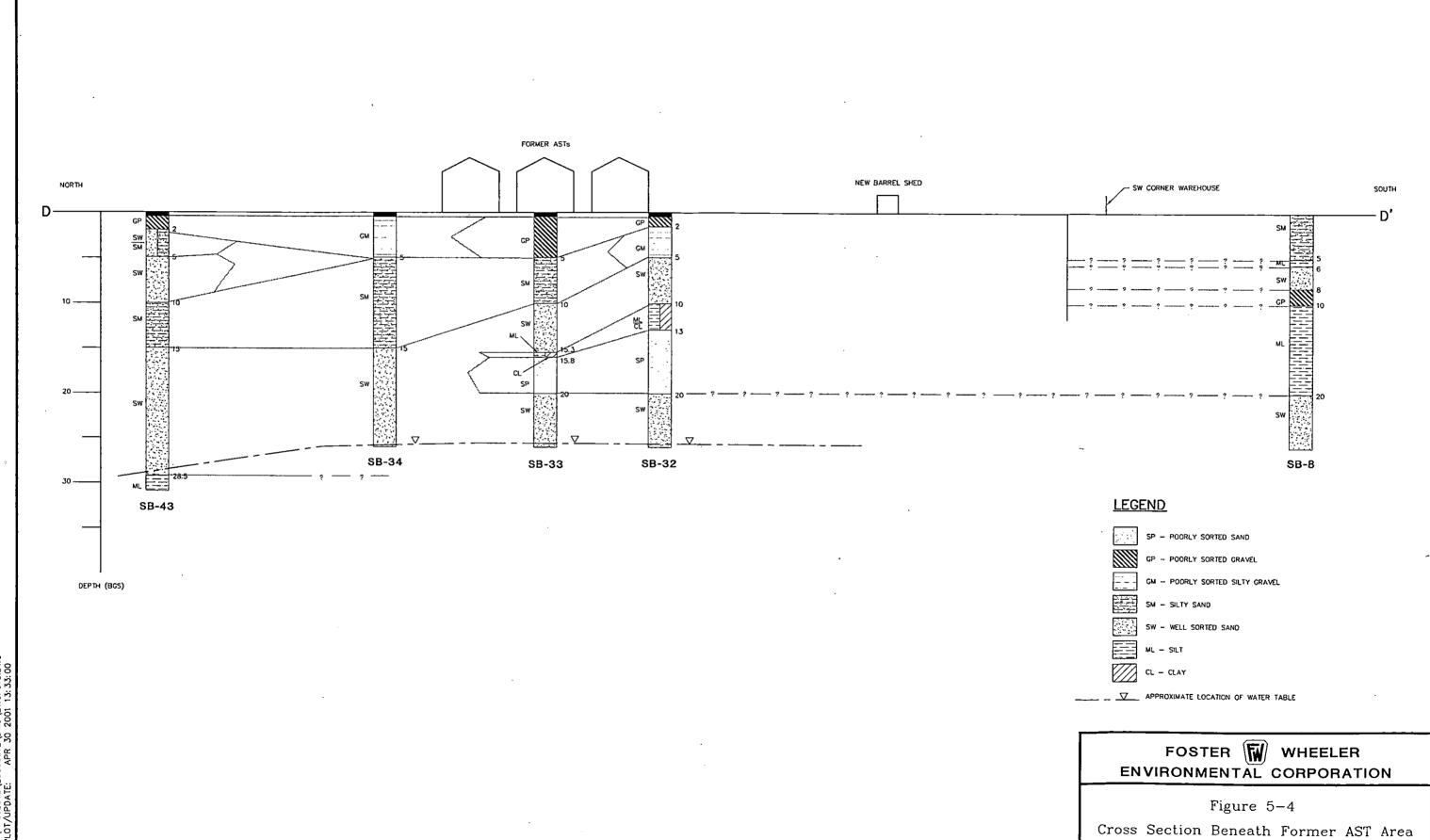


 Table 3-1.
 Well Construction Details

1	Coordinates (V	WA State Plane)	Top of	Ground	Total Donth	Total Depth	Depth of	Elevation of
Wėll	Northing (Feet)	Easting (Feet)	Casing Elevation (Feet msl)	Elevation (Feet msl)	of Boring (Feet bgs)	of Well (Feet bgs)	Screen Interval (Feet bgs)	Screen Interval (Feet msl)
01MW-01	245454.603	1256198.248	46.48	46.76	25.00	25.25	10 - 25	36.76 - 21.76
01MW-02	245585.027	1256198.518	44.78	45.15	25.00	24.91	10 - 25	35.15 - 20.15
01MW-03	245597.585	1256160.493	44.35	44.75	25.20	25.15	10 - 25	34.75 - 19.75
01MW-04	245563.117	1256163.148	45.08	45.56	25.00	24.90	10 - 25	35.56 - 20.5€
01MW-05	245569.311	1256114.025	45.40	45.77	25.00	24.88	10 - 25	35.77 - 20.77
01MW-06	245452.677	1256064.638	47.74	48.23	25	25.10	10 - 25	38.23 -23.23
01MW-07	245570.711	1255975.885	45.17	45.53	30	28.17	15 - 30	30.53 - 15.53
01MW-08	245570.471	1256070.985	45.21	45.63	25	24.93	10 - 25	35.63 - 20.63
01MW-09	245602.062	1256103.039	43.91	44.37	25	24.70	10 - 25	34.37 - 19.37
01MW-10	245580.377	1256246.968	45.02	45.35	25	24.90	10 - 25	35.35 - 20.35
01MW-11	245545.081	1256368.92	46.10	46.45	30	29.90	15 - 30	31.45 - 16.45
01MW-12	245444.877	1256316.069	45.84	46.29	20	20.00	5 - 20	40.84 - 25.84
01MW-13	245317.347	1256313.287	46.36	46.81	20	19.88	15 - 20	31.81 - 26.81

PCP/Diesel Mixing Areas

Table 3-2. Well Development and Sampling Parameters

		Gallons		Temperature	Conductivity	Turbidity
Well	Date	Purged	pН	(Celsius)	(mS/cm)	(NTU)
01MW-01	11/15/00	15	7.1	15.3	0.600	35
	11/16/00	na	6.9	14.8	0.483	3
01MW-02	11/15/00	15	6.9	15.4	0.742	54
	11/16/00	na	. 6.8	15.3	0.724	52
01MW-03	11/15/00	15	6.7	15.1	0.519	876
	11/16/00	na	6.8	15.0	0.291	57
01MW-04	11/13/00	45	: 6.7	15.2	0.294	> 1,000
	11/16/00	na	6.5	15.1	0.216	60
01MW-06	11/29/00	45	7.2	14.3	0.980	10
01MW-07	11/30/00	7	∵ 6.9	15	0.689	34
	12/1/00	na	6.9	12	0.699	3
01MW-08	, 11/30/00	70	7.1	15	0.684	84
-	12/1/00	na	7.1	13	0.980	10
01MW-09	11/30/00	50	· 7.0	16	0.560	8
	12/1/00	na	6.9	14	0.554	10
01MW-11	11/30/00	21	7.1	14	0.544	110
	12/1/00	na	7.1	13	0.641	13
01MW-12	12/4/00	40	6.8	12	1.020	53
	12/5/00	na	6.7	9.6	1.00	10
01MW-13	12/4/00	54	7.1	12	0.693	245
01MW-13	12/5/00	па	6,7	10.8	0.685	10

Note: mS/cm = millisiemens per centimeter nephelometric turbidity unitNot applicable NTU

na

Table 3-3. Water Levels Measured at 2737 West Commodore Way, December 5, 2000

	Date	Top of Casing Elevation	Ground Elevation	Total Depth of Well	Depth of Fuel	Depth of Water	Fuel Thickness	Water Elevation
Well	Measured	(Feet msl)	(Feet msl)	(Feet bgs)	(Feet bgs)	(Feet bgs)	(Feet)	(Feet msl)
01MW-01	12/5/00	46.48	46.76	25.25	0.00	14.47	0.00	32.01
01MW-02	12/5/00	44.78	45.15	24.91	0.00	15.70	0.00	29.08
01MW-03	12/5/00	44.35	44.75	25.15	0.00	15.30	0.00	29.05
01MW-04	12/5/00	45.08	45.56	24.90	0.00	15.07	0.00	30.01
01MW-05	12/5/00	45.40	45.77	24.88	15.47	20.75	5.28	28.87
01MW-06	12/5/00	47.74	48.23	25.10	0.00	16.30	0.00	31.44
01MW-07	12/5/00	45.17	45.53	28.17	0.00	23.51	0.00	21.66
01MW-08	12/5/00	45.21	45.63	24.93	0.00	16.75	0.00	28.46
01MW-09	12/5/00	43.91	44.37	24.70	0.00	17.01	0.00	26.90
01MW-10	12/5/00	45.02	45.35	24.90	0.00	24.07	0.00	20.95
01MW-11	12/5/00	46.10	46.45	29.90	0.00	23.12	0.00	22.98
01MW-12	12/5/00	45.84	46.29	20.00	0.00	6.75	0.00	39.09
01MW-13	12/5/00	46.36	46.81	19.88	0.00	7.40	0.00	46.81

PCP/Diesel Mixing Areas

Table 4-1. Analytical Results for TPH, Lead, and PCP in Soil at 2737 West Commodore Way (mg/kg) (Page 1 of 3)

	Lead	Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	PCP	Diesel	Oil
MTCA ¹	250	1002/	0.03	7	6	9	8.3334	2,000	2,000
-			For	mer PCP/	Diesel Mixing A	rea			
SS-01	na	na	na	па	na	na	3.87	na	na
SS-02	na	na	na	na	na	na	< 1.25	na	na
SS-03	na	na	па	na	na	na	< 2.50	na	na
SS-04	na	na	па	na	na	na	< 0.500	na	na
SB-01-0.6	па	na	na	na	na	na	0.930	na	na
SB-01-2	9.14	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	< 0.250	114	116
SB-01-5	3.86	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0871	40.9	55.9
SB-01-10	2.62	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0812	47.2	26.2
SB-01-14	2.54	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0578	< 10.0	< 25.0
SB-02-0.6	na	na	na	na	nạ	na	1.15	na	na
SB-02-2	3.34	217	< 0.200	< 0.200	< 0.200	< 0.400	< 0.250	1,400	158
SB-02-5	6.26	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0615	15.3	< 25.0
SB-02-10	6.17	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0613	14.0	< 25.0
SB-02-14	4.60	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0585	< 10.0	< 25.0
SB-03-0.6	9.23	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	202	2,010	4,780
SB03B (2 ft)	3.36	1,670	< 1.00	< 3.20	< 7.00	< 16.2	< 0.500	14,700	6,350
SB-04-0.6	na	na	na	na	na	na	803	па	na
SB-04-2	4.55	513	< 0.250	< 0.250	< 0.470	< 0.875	1.26	5,670	2,320
SB-04-5	5.13	8.42	< 0.0500	< 0.0500	< 0.0500	< 0.100	20.9	217	260
SB-04-10	3.07	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.2330	< 25.0	< 25.0
SB-05-0.6	na	na	na	na	na	na	2.18	na	na
SB-05-2	5.87	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0761	< 10.0	< 25.0
SB-05-5	5.59	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.264	11.1	< 25.0
SB-05-10	2.66	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0981	< 10.0	< 25.0

Table 4-1. Analytical Results for TPH, Lead, and PCP in Soil at 2737 West Commodore

Way	(ma	/kal	(Page	2 of 3)	
wav	เมหร	1621	TEASE	2.01.31	

	Lead	Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes	PCP	Diesel	Oil
MTCA ^{1/}	250		0.03	7	6	ļ <u> </u>	8.333/	2,000	2,000
				Shed-PCP/	Diesel Subsurfa	ce Piping A			
SB-26-2	3.19	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	54.1	< 25.0
SB-26-4	9.18	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	10.7	< 25.0
SB-26-9	2.45	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	. < 25.0
SB-26-14	2.89	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-26-19	2.37	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	· < 25.0
SB-27-2	4.63	56	< 0.0500	< 0.0500	< 0.0500	< 0.150	na	562	472
SB-27-5	2.79	121	< 0.100	< 0.100	< 0.100	< 0.314	na	1,190	< 525
SB-27-10	7.61	71	< 0.0500	< 0.0500	< 0.0500	< 0.163	na	242	316
SB-27-15	5.56	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-27-20	2.01	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-28-2	2.41	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	12.3	< 25.0
SB-28-5	4.62	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-28-10	3.02	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	па	< 10.0	< 25.0
SB-28-15	3.66	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-28-20	2.48	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-29-2	13.3	536	< 0.500	< 0.500	< 0.500	< 1.83	na	3,220	1,160
SB-29-5	4.27	393	< 0.200	< 0.200	< 0.560	< 1.12	na	1,930	488
SB-29-10	5.28	6.97	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-29-15	3.86	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-29-20	2.31	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-29-25	2.15	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-30-2	7.22	5,120	< 1.00	< 1.00	< 9.12	< 33.0	na	832	< 275
SB-30-5	3.41	19.8	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-30-10	3.82	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-30-15	3.40	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-30-20	2.50	18.7	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	16.5	< 25.0
SB-30-25	2.31	< 5.00	0.0853	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-31-2	53.9	577	< 0.512	< 0.248	< 0.824	< 2.52	na	11,400	7,730
SB-31-5	5.18	13.5	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-31-10	3.43	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-31-15	2.30	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-31-20	2.14	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0
SB-31-25	1.80	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0

Table 4-1. Analytical Results for TPH, Lead, and PCP in Soil at 2737 West Commodore Way (mg/kg) (Page 3 of 3)

	993	ay (mg/kg	(Page 3	01 3)					
	Lead	Gasoline	Benzene	Toluene;	Ethylbenzene	Xylenes	PCP	Diesel	Oil
MTCA ^{1/}	250	1002′	0.03	7	6	9	8.3337	2,000	2,000
				New Bar	rel Shed Area	<u> </u>	_		
SB-06-5	8.64	10.6	< 0.0500	< 0.0500	< 0.0500	< 0.100	< 0.250	553	369
SB-06-10	3.58	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0548	< 10.0	< 25.0
SB-06-15	9.36	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0548	< 10.0	< 25.0
SB-07-5	8.33	1,240	2.17	< 1.00	7.6	18.2	< 0.250	1,190	783
SB-07-10	9.81	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	< 0.250	< 10.0	< 25.0
SB-07-15	9.54	7.56	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0572	< 10.0	< 25.0
SB-08-5	9.52	26.2	< 0.0500	< 0.0500	< 0.0500	< 0.100	0.0560	< 10.0	< 25.0
SB-08-10	8.34	15	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	447	< 25.0
SB-08-15	9.44	< 5.00	< 0.0500	< 0.0500	< 0.0500	< 0.100	na	< 10.0	< 25.0

Notes: ¹⁷ Results above the proposed MTCA Method A cleanup level for unrestricted land use are shown in bold and italics.

Proposed MTCA Method A cleanup level for gasoline without benzene and < 20% aromatics between EC8 and EC16. All other gasoline mixtures are 30 mg/kg.</p>

Results above MTCA Method B carcinogenic cleanup level are shown in bold and italics. < symbol indicates result is less than the method reporting limit (in parenths).

na - No analysis requested.

Table 4-2. Analytical Results for PAHs in Soil at 2737 West Commodore Way (mg/kg)

Page 1 of 2

Sample				l at 2737 West			Renzo(e h i)nomiles	Ponza (h) Quancush	Charles	Dibenz(a,h)anthracene	F)	F1					ge 1 of 2
Sample	Acenaphmene	Accuaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(n)Huorantnene				Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total cPAHs
SS-01	na	na	na	< 0.500	< 0.500	< 0.500		CP/Diesel Mixing Ar		.0.500			0.500				
SS-02			114								na	na	< 0.500	na	na	. na	
	na		na	< 0.250	< 0.250	< 0.250	na				na	na	< 0.250	na	na	na	
SS-03	na		na	< 0.500	< 0.500	< 0.500			< 0.500		na	na	< 0.500	na	na	na	1.75
SS-04	na		na	1.63	1.71	2.13			1.93	< 0.100	na	na	1.05	na	na	na	9.26
SB-01-0.6	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	0.136	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	0.35
SB-01-2	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.0617	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.18
SB-01-5	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0118	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0160	0.0118	0.04
SB-01-10	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0215	0.0116	0.04
SB-01-14	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.04
SB-02-0.6	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.18
SB-02-2	0.343	< 0.0500	0.153	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	0.0766	< 0.0500	0.129	0.975	< 0.0500	0.0967	1.59	0.536	0.23
SB-02-5	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0141	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0116	< 0.0100	< 0.0100	0.0273	0.0133	0.04
SB-02-10	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0106	< 0.0100	< 0.0100	< 0.0100	0.0342	0.0138	0.04
SB-02-14	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0376	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100		
SB-03-0.6	1.74	< 1.25	2.12	5.50	3.57	3.38	2.99	< 1.25	9.94	< 1.25	5.60	2.61	2.03	2.61	11.6		
SB03A (0.6 ft)	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	1.72		< 0.250		< 0.250		0.328	< 0.250	< 0.250		
SB03B (2 ft)	3.20	< 0.100	2.91	1.21	0.822	0.399	0.647	< 0.100	1.29		2.21	8.70	0.255	43.7	21.1	10.8	
SB-04-0.6	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	. 0.505	1.05		0.544	< 0.500	0.700		0.622	< 0.500	0.583	0.894	
SB-04-2	0.945	0.381	1.09	0.414	0.290	0.141	0.232	< 0.100	0.630	< 0.100	0.688	2.18	0.124	4.66	6.01	3.66	
SB-04-5	0.164	< 0.100	0.287	1.32	1.46	1.78		0.704	1.59		2.60	0.106	0.991	< 0.100	1.21	2.73	
SB-04-10	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100		< 0.0100	0.0151	0.0276		
SB-05-0.6	< 0.0500	< 0.0500	< 0.0500	0.0933	0.154	0.223			0.219	< 0.0500		< 0.0500	0.154	< 0.0500	0.426	0.0176	
SB-05B (2 ft)	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.117	< 0.0100		< 0.0100		< 0.0100		< 0.0100	< 0.0100	< 0.0100	< 0.0100		
SB-05C (5 ft)	< 0.0200	< 0.0200	< 0.0200	0.0342	0.0505	0.0749				< 0.0200		< 0.0200	0.0472	< 0.0200	0.0960	0.0960	
SB-05D (10 ft)	< 0.0100		< 0.0100	< 0.0100	0.0107	0.0152						< 0.0100					
					0.0107						0.0303	< 0.0100	0.0107	< 0.0100	0.0312	0.0232	0.07
SB-26-2	na	na	na	< 0.0200	< 0.0200			PCP/Diesel Subsurfac					22223				
SB-26-4	-					< 0.0200			< 0.0200			na	< 0.0200	na	na	na	0.07
SB-26-9	na		na	< 0.0100	< 0.0100	< 0.0100			< 0.0100			na	< 0.0100	na	na	na	0.04
	na	na	na	< 0.0100	< 0.0100	< 0.0100			< 0.0100	V-28 K 2 K 2	na	na	< 0.0100	na	na	na	0.04
SB-27-2	na	na	na	< 0.0500	< 0.0500	< 0.0500	na	< 0.0500	< 0.0500	< 0.0500	na	na	< 0.0500	na	na	na	0.18
SB-27-5	na	na	na	< 0.100	< 0.100	< 0.100	па	< 0.100	< 0.100	< 0.100	na	na	< 0.100	na	na	na	0.35
SB-27-10	na	na	na	< 0.200	< 0.200	< 0.200	na	< 0.200	< 0.200	< 0.200	na	na	< 0.200	na	na	na	0.70

PCP/Diesel Mixing Areas

April 30, 2001

Table 4-2. Analytical Results for PAHs in Soil at 2737 West Commodore Way (mg/kg)

Sample	Acenaphthene	Acenaphthyle	ne Antl	hracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total cPAHs
SB-29-2	па	1	na '	na	< 0.500	< 0.500	< 0.500	na	< 0.500	< 0.500	< 0.500	na	na	0.500	па	na	n	na 1.75
SB-29-5	na	. 1	na	na	< 0.200	< 0.200	< 0.200	na	< 0.200	< 0.200	< 0.200	na	na	< 0.200	na	na	'n	na 0.70
SB-29-10	na	1	na ·	na na	< 0.0100	0.0430	< 0.0100	па	< 0.0100	< 0.0100	< 0.0100	na	na	< 0.0100	na	na	n	na 0.07
SB-30-2	na	1	na	na	< 0.0500	< 0.0500	< 0.0500	na	< 0.0500	< 0.0500	< 0.0500	na	na	< 0.0500	na	na	n	na 0.18
SB-30-5	na	1	na	na	< 0.0100	< 0.0100	< 0.0100	na	< 0.0100	< 0.0100	< 0.0100	na	na	< 0.0100	na	na	n	1a , 0.04
SB-30-10	na	1	na	na	< 0.0100	< 0.0100	< 0.0100	na	< 0.0100	< 0.0100	< 0.0100	na	na	< 0.0100	na	na	n	na 0.04

Notes: Total cPAHs include sum of detections. Half of reporting limit used for nondetects.

cPAHs feature a shaded header.

Total cPAHs that exceed MTCA Method A cleanup level of 1 mg/kg are shown in bold and italics.

PCP/Diesel Mixing Areas

April 30, 2001

Table 4-3. Analytical Results for Groundwater Samples

	PCP	Lead	Gasoline	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Xylenes
Sample	(μg/L)	(mg/L)	(μg/L)	(mg/L)	(mg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/ L)
MTCA	1.02	5.0	800	0.500	0.500	5.0	1,000	700	1,000
		-	F	ormer PCP	/Diesel Pi	ping Area			
SB-01-W	< 0.500	0.00100	776	10.9	< 5.50	< 0.811	< 1.56	5.86	28.2
SB-02-W	1.64	na	134	3.60	< 2.50	< 0.500	< 0.500	< 0.500	< 1.00
		Fo	rmer Barre	l Shed-PCP	/Diesel Su	bsurface Mi	xing Area		
01MW-06	1.80	< 0.00100	87.4	< 0.250	< 0.500	< 0.500	< 0.500	< 0.500	< 1.00

Notes: ¹/Results above the proposed MTCA Method A cleanup level are shown in bold and italics.

²Results above Federal MCLs are shown in bold and italics.

^{3/}Proposed MTCA cleanup level for groundwater with benzene present.

na - No analysis requested.

< symbol indicates result is less than method reporting limit.

Table 4-4. cPAH Groundwater Concentrations

·	Sar	nple
сРАН	SB-01-W	SB-02-W
Acenapthene	0.772	0.597
Acenapthylene	< 0.100	< 0.100
Anthracene	0.167	< 0.100
Benzo a janthracene	< 0.100	< 0.100
Benzo[a]pyrene	< 0.100	< 0.100
Benzo[b]fluoranthene	< 0.100	< 0.100
Benzo[g,h,i]perylene	< 0.100	< 0.100
Benzo[k]fluoranthene*;;;	< 0.100	< 0.100
Chrysene	< 0.100	< 0.100
Dibenz[a,h]anthracene	< 0.100	< 0.100
Fluoranthene	0.104	< 0.100
Fluorene	1.96	1.58
Indeno(1,2,3=cd)pyrene	< 0.100	< 0.100
Naphthalene	6.42	0.231
Phenanthrene	1.65	0.943
Pyrene	0.355	0.154
Total cPAHs	0.350	0.350

Notes: Total cPAHs include sum of detections. Half of reporting limit used for nondetects. cPAHs feature a shaded header.

Total cPAHs that exceed MTCA Method A cleanup level of 1 mg/kg are shown in bold and italics.

Table 5-1. Summary of Concentrations of Petroleum-Impacted Soil above Cleanup Levels (mg/kg)

Sample	Gasoline	Benzene	Ethylbenzene	Xylenes	PCP	Diesel	Oil	cPAHs
MTCA	100	0.03	6	9	8.3324	2,000	2,000	1
 	^		Former PCP	Diesel Mixin	g Area			
SS-01	na	na	na	na	3.87	na	na	1.75
SS-03	na	па	na	na	< 2.50	na	na	1.75
SS-04	na	na	na	na	< 0.500	na	na	9.26
SB-02-2	217	< 0.200	< 0.200	< 0.400	< 0.250	1,400	158	0.23
SB-03-0.6	< 5.00	< 0.0500	< 0.0500	< 0.100	202	2,010	4,780	1.08
SB03B (2 ft)	1,670	< 1.00	< 7.00	< 16.2	< 0.500	14,700	6,350	4.53
SB-04-0.6	na	na	na	na	803	na	na	2.67
SB-04-2	513	< 0.250	< 0.470	< 0.875	1.26	5,670	2,320	1.70
SB-04-5	8.42	< 0.0500	< 0.0500	< 0.100	. 20.9	217	260	8.09
	1 .		Lower T	ank Yard Ar	ea			
SB-19-2	1,500	< 1.00	< 1.70	< 8.00	na	4,070	< 275	na
SB-19-5	960	< 0.500	< 0.500	< 6.00	na	1,340	< 75.0	na
SB-24-2	58.4	< 0.0500	< 0.0643	< 0.164	na	2,610	< 1,030	na
SB-24-10	252	< 0.236	< 0.910	< 1.34	na	366	60.9	na
	·	Former l	Barrel Shed Area-P	CP/Diesel Su	bsurface Pip	ing Area		
SB-27-5	121	< 0.100	< 0.100	< 0.314	na	1,190	. < 525	0.35
SB-29-2	536	< 0.500	< 0.500	< 1.83	na	3,220	1,160	1.75
SB-29-5	393	< 0.200	< 0.560	< 1.12	па	1,930	488	0.7
SB-30-2	5,120	< 1.00	< 9.12	< 33.0	na	832	< 275	0.18
SB-31-2	577	< 0.512	< 0.824	< 2.52	na	11,400	7,730	na
 			New Ba	rrel Shed Ar	ea			
SB-07-5	1,240	2.17	7.6	18.2	< 0.250	1,190	783	na

Notes: ¹¹Results above proposed MTCA Method A cleanup levels for unrestricted land use are shown in bold and italics.

²Results above MTCA Method B carcinogenic cleanup level are shown in bold and italics.

< symbol indicates result is less than method reporting limit.

na - No analysis requested.

 Table 5-2.
 Summary of Groundwater Concentrations above Cleanup Levels

		PCP	Lead	Gasoline	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Xylenes
Sample.	Date	(µg/L)	(μg/L)	(µg/L)	(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MTCA ¹		1.02/	5.0	8003/	0.500	0.500	5.0	1,000	700	1,000
•]	Former PC	CP/Diesel	Piping A	геа			
SB-01-W		< 0.500	0.0010	776	10.9	< 5.50	< 0.811	< 1.56	5.86	28.2
SB-02-W		1.64	na	134	3.60	< 2.50	< 0.500	< 0.500	< 0.500	< 1.00
	·	For	mer Barr	el Shed-P(CP/Diesel	Subsurf	ace Mixin	g Area		1
O1MW-06		1.80	< 0.0010	87.4	< 0.250	< 0.500	< 0.500	< 0.500	< 0.500	< 1.00

Notes: ¹⁷Results above the proposed MTCA Method A cleanup level are shown in bold and italics.

²Results above Federal MCLs are shown in bold and italics.

³/Proposed MTCA cleanup level for groundwater with benzene present.

na - No analysis requested.

< symbol indicates result is less than method reporting limit.

APPENDIX A SOIL BORING LOGS

SB-01 through SB-08 SB-26 through SB-31 SB-75 SB-50

PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-01

LOCATION: 2737 West Commodore Way

AREA: Former Penta-Diesel Mixing Area

CLIENT: <u>Time Oil Company</u> SITE MANAGER: <u>Scott Sloan</u> **DRILLING METHOD: Hand Auger**

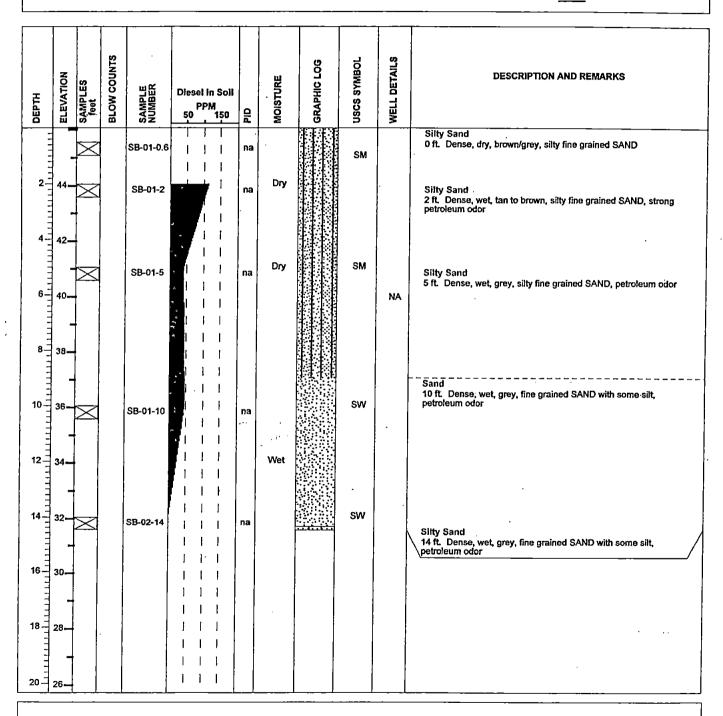
DRILLING CONTRACTOR: Foster Wheeler

DATE/TIME STARTED: 11/14/00 1030

DATE/TIME COMPLETED: <u>11/14/00 1215</u>

TOTAL DEPTH: 14 feet

WATER DEPTH: ~ 10 ft



PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-02

LOCATION: 2737 West Commodore Way

AREA: Former Penta-Diesel Mixing Area

CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: Hand Auger

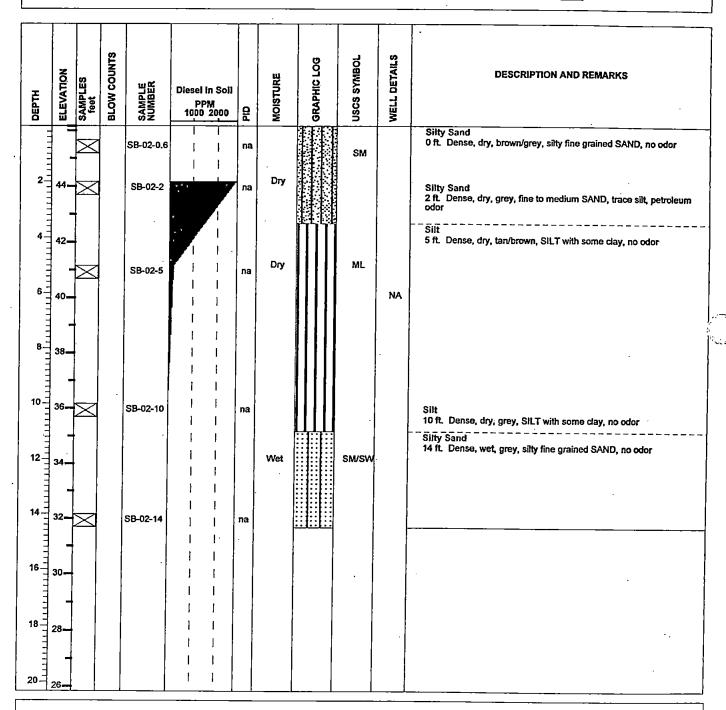
DRILLING CONTRACTOR: Foster Wheeler

DATE/TIME STARTED: 11/14/00 1310

DATE/TIME COMPLETED: <u>11/14/00</u> 1500

TOTAL DEPTH: 14 feet

WATER DEPTH: -7 ft



PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-03

LOCATION: 2737 West Commodore Way

AREA: Former Penta-Diesel Mixing Area

CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: Hand Auger

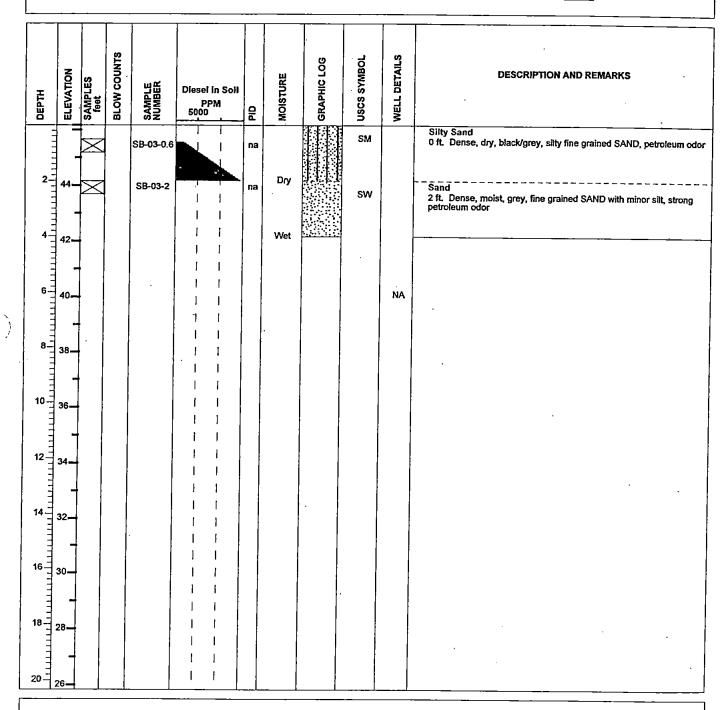
DRILLING CONTRACTOR: Foster Wheeler

DATE/TIME STARTED: 12/01/00 1315

DATE/TIME COMPLETED: 11/01/00 1400

TOTAL DEPTH: 4 feet

WATER DEPTH: 4 feet



PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-04

LOCATION: 2737 West Commodore Way

AREA: Former Penta-Diesel Mixing Area

CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: <u>Hand Auger</u>
DRILLING CONTRACTOR: <u>Foster Wheeler</u>
DATE/TIME STARTED: <u>11/14/00 1500</u>
DATE/TIME COMPLETED: <u>11/14/00 1600</u>

TOTAL DEPTH: 10 feet

WATER DEPTH: <u>~ 7 ft</u>

DEPTH	ELEVATION	SAMPLES feet	BLOW COUNTS	SAMPLE	Diesel in Soil PPM 2500 7500	PID	MOISTURE	GRAPHIC LOG	USCS SYMBOL	WELL DETAILS	DESCRIPTION AND REMARKS
2-	44-	X X		SB-04-0.6 SB-04-2	1 1 1	na na	Dry				Silty Sand 0 ft. Dense, dry, brown/grey, silty fine grained SAND, no odor Silty Sand 2 ft. Dense, dry, grey, silty fine grained SAND, less silt and more sand, petroleum odor since 1.5 ft
6-	40-			SB-04-5	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	na	Dry			NA.	Silt 5 ft. Dense, dry, tan/grey, SILT with some clay, no odor
10	38—	\bowtie		SB-04-10		na	Wet				Silty Sand 10 ft. Dense, wet, grey, silty fine grained SAND, no odor
12	,										
16-	30-								·	. ,-	
18	28-									·	

PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-05

LOCATION: 2737 West Commodore Way

AREA: Former Penta-Diesel Mixing Area

CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: Hand Auger

DRILLING CONTRACTOR: Foster Wheeler

DATE/TIME STARTED: 12/01/00 1115

DATE/TIME COMPLETED: 12/01/00 1300

TOTAL DEPTH: 25 feet

WATER DEPTH: ~ 7 ft

		ı	ī	1	٢	1	,		ī	1	
DEPTH	ELEVATION	SAMPLES feet	BLOW COUNTS	SAMPLE	Diesel in Soil PPM 20 30 40	PID	MOISTURE	GRAPHIC LOG	USCS SYMBOL	WELL DETAILS	DESCRIPTION AND REMARKS
=	=										Silty Sand 0 ft. Dense, dry, brown/grey, silty fine SAND, no odor
		\times		SB-05-0.6		na					one bense, dry, blowingley, sity line salab, no odor
2-	44-	\times		SB-05-2		na	Dry				
4_					1 1 1						
6-	40-	X		SB-05-5	1 1 1 1 1 1 1 1 1 1 1 1	na	Dry			NA	Silty Sand 5 ft. Same as above, dense, dry, brown/grey, silty fine grained SAND, no odor
8					1 1 1					,	10 ft. Dense, wet, grey, fine grained SAND with minor silt, no odor, Hanby test kit shows no detectable levels of petroleum in soil
"	38—	•			1 1 1						The last of the state of the st
10-11-11-11-11-11-11-11-11-11-11-11-11-1	36-	\times		SB-05-10		na	Wet				
12	34_				1 1 1						·
	1	ĺ			1			j			·
14-	32-										
16	30-										
=	30-		į								
=	4									ĺ	
18-	28_				1 1 1						
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20-	26						•		i		

PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-06

LOCATION: 2737 West Commodore Way

AREA: Former Rall Line Spurs
CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: 4-inch HSA
DRILLING CONTRACTOR: Cascade

DATE/TIME STARTED: 11/15/00 0845
DATE/TIME COMPLETED: 11/15/00 0930

TOTAL DEPTH: <u>25 feet</u> WATER DEPTH: <u>na</u>

	_		1	·-	·		I	 - 			
DEPTH	ELEVATION	SAMPLES feet	BLOW COUNTS	SAMPLE	Diesel in Soil PPM 300 500	DID	MOISTURE	GRAPHIC LOG	USCS SYMBOL	WELL DETAILS	DESCRIPTION AND REMARKS
2-	58 - 56-				 		Dry		SW		Sand 0 ft. Medium to dense, dry, brown, SAND with minor gravel, organics, trace of clay, no odor 2 ft. Gravel percentage increases, TPH odor
6	54 -	X	50:6*	SB-06-5		0	Dry		SM		Silty Sand 5 ft. Dense, dry, brown, silty fine grained SAND, minor gravel, till ??, stringers of oil in sample
10-	50— - 48—	X	90:6"	SB-06-10	I I I I I I I I I I I I I I I I I I I	0	Dry		sw	NA	Sand 10 ft. Dense, dry, grey, fine grained SAND, trace silt Sand color changes to brown
14-111111111111111111111111111111111111	46— 44—		50:6"	SB-06-15		0	Dry		CL		Clay 13 ft. Dense, dry, grey, CLAY
20 110 110 110 110 110 110 110 110 110 1	40-		50:6 *	SB-06-20		0	Dry		SM		Silfty Sand 20 ft. Dense, dry, grey, silty fine grained SAND, no odor Sand
24	36-	\times	50:6*	SB-06-25	1 I I I I I	0	Dry		sw		21 ft. Dense, dry, black/white/grey, medium to fine SAND, no odor SAND Same as above
26	32										

PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-07

LOCATION: 2737 West Commodore Way

AREA: Former Rail Line Spurs
CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: <u>4-inch HSA</u>
DRILLING CONTRACTOR: <u>Cascade</u>
DATE/TIME STARTED: <u>11/15/00 1014</u>

DATE/TIME COMPLETED: 11/15/00 1055

TOTAL DEPTH: <u>25 feet</u> WATER DEPTH: <u>na</u>

						1				1	
ОЕРТН	ELEVATION	SAMPLES feet	BLOW COUNTS	SAMPLE	Diesel in Soil PPM 250 750	PID	MOISTURE	GRAPHIC LOG	USCS SYMBOL	WELL DETAILS	DESCRIPTION AND REMARKS
1 -							Dry	0°6	SP		Gravel and Sand 0 ft. Dense, dry, brown, GRAVEL and sand, minor silt
441111111111111111111111111111111111111	56— - 54—	\times	25 50:5"	SB-07-5		0	Dry	\$ 0 0 0 0	sw		Sand 5.5 ft. Medium to dense, dry, grey, medium to fine SAND, well sorted, petroleum odor, Hanby Kit positive 500 ppm oil
2	50-	\times	21 50:6*	SB-07-10		0	Dry		CL	NA	Clay 10 ft. Dense, dry, grey, CLAY, dense, impermeable, no odor
14 16 11 11 11 11 11 11 11 11 11 11 11 11	44-44-42-	X	20 50:6*	SB-07-15		0	Dry		ML		Silit 15 ft. Dense, dry, grey, SILT with fine sand & clay, impermeable, no odor
20	40-	X	50:6"	SB-07-20		0	Dry		SM		Silty Sand 20 ft. Dense, dry, grey, silty fine grained SAND, dense, no odor
24	36-		50:6	SB-07-25		0	Dry		SM		Silty Sand 25 ft. Grey, dry, fine SAND & SILT, dense, no odor
20-7	32-										

PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-08

LOCATION: 2737 West Commodore Way

AREA: Former Rail Line Spurs
CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: 4-inch HSA

DRILLING CONTRACTOR: Cascade

DATE/TIME STARTED: 11/15/00 1125

DATE/TIME COMPLETED: 11/15/00 1215

TOTAL DEPTH: 25 feet

WATER DEPTH: na

		1	_		<u> </u>	Т	T	-		1	
ОЕРТН	ELEVATION	SAMPLES feet	BLOW COUNTS	SAMPLE	Diesel in Soil PPM 300 500		MOISTURE	GRAPHIC LOG	USCS SYMBOL	WELL DETAILS	DESCRIPTION AND REMARKS
	_				1 1		Do	0.6	GP		Gravel and Sand 0 ft. Dense, dry, brown, GRAVEL and sand, no odor
4-	- 56-						Dry		SM		Sand 2 ft. Dense, dry, grey, sandy SILT, no odor
4 6 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	54 —	\times	20 50:6*	SB-08-5		0	Dry		ML SW		Silt 5 ft. Dense, dry, grey, SiLT with minor fine sand, slight petroleum odor
8 7 1	52—		ı								Sand 6 ft. Dense, dry, grey, medium to fine SAND, no odor
10	50—	\times	21	SB-08-10		D	Dry) 0° a	GM ML	NA	Gravel 10 ft. Dense, dry, brown, GRAVEL
12	48-						,		IVIL		Silt 11 ft. Dense, dry, grey, SILT with minor fine SAND, tan layers, no odor
14	46-		60:6"				Dry				
16	44-	\times		SB-08-15	1 I 1 I	0					Silt 15 ft. Same as above
18111111	42	'					•				
20	38-	X	65:6"	SB-08-20		0	Dry		SM		Silty Sand 20 ft. Dense, dry, grey, silty fine grained SAND, no odor
22	36—										·
24	34_	\times	50:6"	SB-08-25	1 1	0	Dry		sw		Sand 25 ft. Dense, dry, grey, fine SAND with minor silt, no odor
~~ =	32				i i						East Sansa, dry, groy, into Oraco Will Hillion Sal, 110 Oddi
3017	30-				, , 1 I						
			!	1		LL		L			

PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-26

LOCATION: 2737 West Commodore Way

AREA: Former Barrel Shed
CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: 4-inch HSA

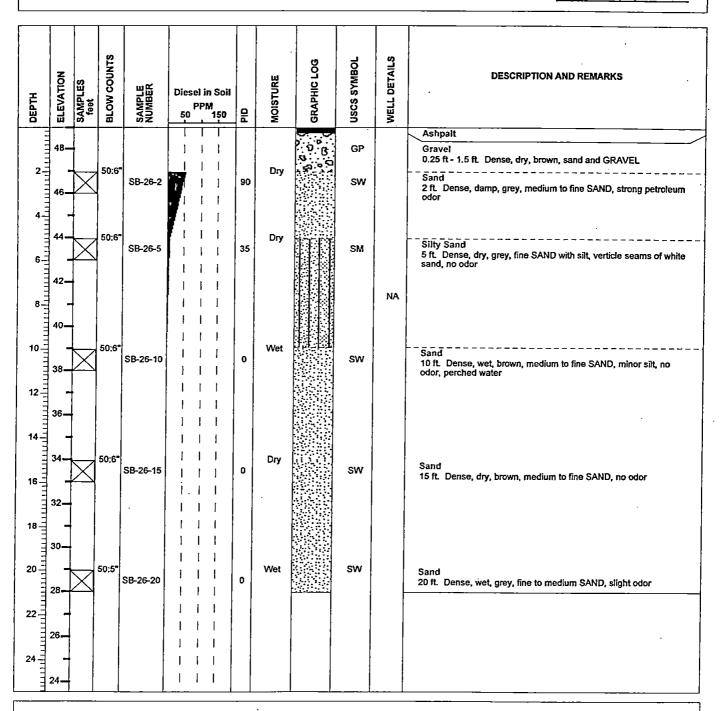
DRILLING CONTRACTOR: Cascade

DATE/TIME STARTED: 11/21/00 0815

DATE/TIME COMPLETED: 11/21/00 0902

TOTAL DEPTH: 19 feet

WATER DEPTH: Perched at 9 ft, Aquifer at 19 ft



PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-27

LOCATION: 2737 West Commodore Way

AREA: Former Barrel Shed
CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: 4-Inch HSA
DRILLING CONTRACTOR: Cascade
DATE/TIME STARTED: 11/21/00 0945
DATE/TIME COMPLETED: 11/21/00 1035
TOTAL DEPTH: 20 feet

WATER DEPTH: 15 feet

ОЕРТН	ELEVATION	SAMPLES feet	BLOW COUNTS	SAMPLE	Diesel in Soil PPM 250 750	PID	MOISTURE	GRAPHIC LOG	USCS SYMBOL	WELL DETAILS	DESCRIPTION AND REMARKS
	_							حيب	GP		Ashpalt
2-	48— - 46—	X	25 50:6*	SB-27-2		na	Dry	6°6	GP SW		Gravel 0.25 - 0.75 ft Dense, dry, GRAVEL Ashpalt 20 ft_ Dense, wet, grey, fine to medium SAND, slight odor Sand and Gravel 1 ft. Dense, dry, brown, fine to medium SAND and GRAVEL Sand
	44_		50;6"				Moist				2 ft. Dense, dry, grey to brown, fine grained SAND, trace of silt and gravel, wood fragments, slight odor
6-	42	X		SB-27-5		na			SM	NA	Sandy Silt 5.5 ft. Dense, damp, grey, SILT with fine grained sand, strong petroleum odor
	40_	.									_
10	38-	\times	50:6*	SB-27-10		na	Dry		SW ML		Sand 10 ft. Dense, dry, grey, fine to medium SAND, strong petroleum odor Silt 10.25 ft. Dense, dry, grey, SILT and fine sand, no odor
14-											
16,11111	34	X	50:6*	SB-27-15		na	Dry		SM		Silt 15 ft. Dense, dry, grey, SILT and fine sand, no odor Silty Sand 15.5 ft. Dense, dry, grey, fine grained SAND and silt
18	+						ļ				
20-	28	X	50:6"	SB-27-20		а	Wet		sw		Sand 20 ft. Dense, wet, black/white/grey, fine to medium grained SAND, minor silt, no odor
	26-	Ì	-	ļ						ł	
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24-	_ 7		ĺ	ŀ			}				
E	24—				1 1 1						

PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-28

LOCATION: 2737 West Commodore Way

AREA: Former Barrel Shed
CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: 4-Inch HSA

DRILLING CONTRACTOR: Cascade

DATE/TIME STARTED: 11/21/00 1100

DATE/TIME COMPLETED: 11/21/00 1145

TOTAL DEPTH: 20 feet
WATER DEPTH: 19 feet

BLOW COL		20 30 40	문	MOISTURE	GRAPHIC LOG	USCS SYMBOL	WELL DETAILS	
25 37	SB-28-2		na	Dry	0 0 0 0	GP SM		Ashpalt Gravel 0.25 ft - 1.5 ft. Dense, dry, brown, sand and GRAVEL, resembles railroad bed, possible railroad tie on edge of boring Silty Sand 2 ft. Dense, damp, grey, fine SAND and SILT, oil spot on recovered sample
50:6"	SB-28-5		na	Dry		SM	NA	Silty Sand 5 ft. Dense, damp, grey, fine SAND with SILT, minor gravel, no odor
50:6*	SB-28-10		na	Dry		SP		Sand 10 ft. Dense, damp, reddish-brown, medium to fine SAND, oxidized layers, no odor
50:6*	SB-28-15		na .	Dry		SP		Sand 15 ft. Dense, damp, brown, medium to fine SAND, no odor
50:6*	SB-28-20		na	Wet		SP		Sand 20 ft. Dense, wet, black/white/grey, fine to medium SAND, no odor
	50:6* 50:6*	SB-28-5 , 50:6* SB-28-10	SB-28-5	SB-28-5 na	SB-28-5 na	SB-28-5	SB-28-5 na SM SM	SB-28-5 na SM NA NA NA SP SB-28-15 na Dry SP SB-28-15 na Dry SP SD-28-15

PROJECT NAME: Phase Il Site Assessment

BORING NUMBER: SB-29 (01MW-06)
LOCATION: 2737 West Commodore Way

AREA: Former Barrel Shed
CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

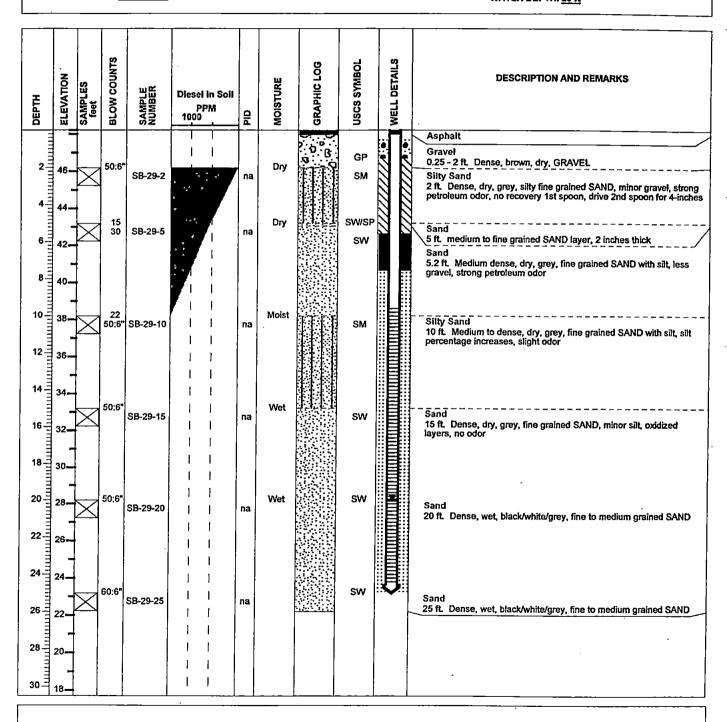
DRILLING METHOD: 4-Inch HSA

DRILLING CONTRACTOR: Cascade

DATE/TIME STARTED: 11/21/00 1315

DATE/TIME COMPLETED: 11/21/00 1430

TOTAL DEPTH: 25 ft ...
WATER DEPTH: 20 ft



PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-30

LOCATION: 2737 West Commodore Way

AREA: Former Barrel Shed
CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: 4-Inch HSA

DRILLING CONTRACTOR: Cascade

DATE/TIME STARTED: 11/21/00 1450

DATE/TIME COMPLETED: 11/21/00 1525

TOTAL DEPTH: 25 feet

WATER DEPTH: ~25 feet

Ŧ	ELEVATION	SAMPLES feet	BLOW COUNTS	SAMPLE	Diesel in Soil		MOISTURE	GRAPHIC LOG	USCS SYMBOL	WELL DETAILS	DESCRIPTION AND REMARKS
DEPTH	ELE	SAM	вго	SAM	PPM 250 750	윤	MOIS	88	nsc	WEL	-
2	1		15 25				Dry	2 G	GP		Ashpalt Gravel 0.25 ft - 1.5 ft. Dense, dry, brown, sand and GRAVEL,
4	1	\times	25	SB-30-2		па			SM		Silty Sand 2 ft. Dense, dry, grey, fine SAND and SILT, strong petroleum odor, organics
6-	ſ	X	25 30	SB-30-5		па	Dry		sw		Sand 5 ft. Dense, dry, grey, medium to fine grained SAND, trace SILT, strong petroleum odor
10 12	40— 38—	X	50:6"	SB-30-10		na	Dry		sw	NA	Sand 10 ft. Dense, dry, brown, medium to fine SAND, no odor
14-	36— 34— 32—	\times	50:6"	SB-30-15		na	Dry		sw		Sand 15 ft. Dense, damp, brown, medium to fine SAND, no odor
20-	30—		60:6*	SB-30-20		па	Dry		sw		Sand 20 ft. Dense, wet, grey, medium to fine SAND, no odor
24 7	24—		50:6"	\$B-30-25		na	Wet		sw		Sand 25 ft. Dense, wet, black/white/grey, fine to medium SAND, grain size increases, no odor
28-	20-				1 1 1					_	

PROJECT NAME: Phase II Site Assessment

BORING NUMBER: SB-31

LOCATION: 2737 West Commodore Way

AREA: Former Barrel Shed
CLIENT: Time Oil Company
SITE MANAGER: Scott Sloan

DRILLING METHOD: 4-Inch HSA
DRILLING CONTRACTOR: Cascade
DATE/TIME STARTED: 11/22/00 0800

DATE/TIME COMPLETED: <u>11/22/00 0850</u>

TOTAL DEPTH: 25 feet
WATER DEPTH: ~25 feet

	1	1			,	<u> </u>		· · · · · ·			
ОЕРТН	ELEVATION	SAMPLES feet	BLOW COUNTS	SAMPLE NUMBER	Diesel in Soil PPM 2500 7500	PIO	MOISTURE	GRAPHIC LOG	USCS SYMBOL	WELL DETAILS	DESCRIPTION AND REMARKS
	40										Concrete
2-1111111111111111111111111111111111111	46—	\times	14 12	SB-31-2		na	Dry	000000000000000000000000000000000000000	GP GM		Gravel 0.5 ft - 2 ft. Medium dense, dry, grey, pea-sized GRAVEL Sand with Gravel and Silt 2 ft. Medium dense, dry, black/brown, SAND with some silt and gravel, strong petroleum odor, organics
6,1111	42— - 40—	X	26 50:6"	SB-31-5		na	Dry) 6°a	sw	•	Sand 5 ft. Dense, dry, grey, medium to fine grained SAND, trace SILT, strong petroleum odor
8	-	.							ML		7 ft. Dense, dry, grey, SILT with some fine sand, no odor
10 11 11 11 11 11 11 11 11 11 11 11 11 1	38— 36— 34—	X	19 50:6"	SB-31-10		па	Dry		SP	NA	Sand 10 ft. Dense, dry, brown, medium to fine SAND, poorly sorted, no odor
16	32—		50:6"	SB-31-15		ла	Dry		sw		Sand 15 ft. Dense, damp, brown, medium to fine SAND, no odor
20	28—		50:6"	SB-31-20		na	Dry		sw		Sand 20 ft. Dense, wet, grey, medium to fine SAND, ກວ odor
24 111111111111111111111111111111111111	22-	\times	50:6"	SB-31-25		na	Wet		sw		Sand 25 ft. Dense, wet, black/white/grey, fine to medium SAND, grain size increases, no odor
30	18.				1 1 1 1						

APPENDIX B LABORATORY DATA PACKAGE

B0K0412

B0L0047

B0K0448

B0L0091

B0K0613

B0K0574

B0L0028

B0K0456



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8223 425.420.9200 fax 425.420.9210

East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported: 12/01/00 14:29

Project Manager: Bryan Graham

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
SB-01-W	B0K0412-01	Water	11/14/00 16:50	11/14/00 19:00	
SB-01-0.6	B0K0412-02	Soil	11/14/00 10:05	11/14/00 19:00	
SB-01-2	B0K0412-03	Soil	11/14/00 10:45	11/14/00 19:00	
SB-01-5	B0K0412-04	Soil	11/14/00 11:05	11/14/00 19:00	
SB-01-10	B0K0412-05	Soil	11/14/00 11:40	11/14/00 19:00	
SB-01-14	B0K0412-06	Soil	11/14/00 12:05	11/14/00 19:00	
SB-02-0.6	B0K0412-07	Soil	11/14/00 10:13	11/14/00 19:00	
SB-02-2	B0K0412-08	Soil	11/14/00 13:30	11/14/00 19:00	
SB-02-5	B0K0412-09	Soil	11/14/00 13:45	11/14/00 19:00	
SB-02-10	B0K0412-10	Soil	11/14/00 14:11	11/14/00 19:00	
SB-02-14	B0K0412-11	Soil	11/14/00 14:31	11/14/00 19:00	
SR-03-0.6	B0K0412-12	Soil	11/14/00 10:16	11/14/00 19:00	
-04-0.6	B0K0412-13	Soil	11/14/00 10:25	11/14/00 19:00	
SB-05-0.6	B0K0412-14	Soil	11/14/00 10:31	11/14/00 19:00	
SB-04-2	B0K0412-15	Soil	11/14/00 15:08	11/14/00 19:00	
SB-04-5	B0K0412-16	Soil	11/14/00 15:26	11/14/00 19:00	
SB-04-10	B0K0412-17	Soil	11/14/00 15:26	11/14/00 19:00	



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8223
425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210

Spokane

Portland

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/01/00 14:29

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

	Desert	Reporting	Units	Dilution	Batch	Dranarad	Analyzed	Method	Notes
Analyte	Result	Limit			Batch	Fiepaleu	Allalyzed		Noics
SB-01-W (B0K0412-01) Water	Sampled: 11/14/00	16:50 Rece	eived: 11/1 <u>4</u> /	00 19:00					
Gasoline Range Hydrocarbons	776	50.0	ug/l	1	0K18007	11/18/00	11/19/00	NWTPH-Gx/8021B	
Benzene	ND	0.811	н	n	н	11	н	ħ	R-03
Toluene	ND	1.56	n	n	n	17	**	n	R-03
Ethylbenzene	5.86	0.500	"	Ħ	ħ	n	17	n	
Xylenes (total)	28.2	1.00	n	Ħ	n	H	'n		
Surrogate: 4-BFB (FID)	123 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	115 %	50-150			"	"	"	"	
SB-01-2 (B0K0412-03) Soil Sa	mpled: 11/14/00 10:	45 Receive	d: 11/14/00	19:00					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K19007	11/19/00	11/20/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	Ħ	н	11	Ħ	"	Ħ	
Toluene	ND	0.0500	h	11	17	"	11	n	
Ethylbenzene	ND	0.0500	19	n	11	ti	n	11	
Xylenes (total)	ND	0.100	h	"	"	**	**	n	(``\
Surrogate: 4-BFB (FID)	79.1 %	50-150			"	"	"	"	`'
Surrogate: 4-BFB (PlD)	83.6 %	50-150			"	"	"	"	
SB-01-5 (B0K0412-04) Soil Sa	mpled: 11/14/00 11:	05 Receive	d: 11/14/00	19:00					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K19007	11/19/00	11/20/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	**	**1	h	**	**	II	
Toluene	ND	0.0500	n	17	11	11	**	и	
Ethylbenzene	ND	0.0500	n	Ħ	PI .	1)	n	и	
Xylenes (total)	ND	0.100	n	Ħ	17	н	h	n	
Surrogate: 4-BFB (FID)	71.5 %	50-150			"	"	"	, "	
Surrogate: 4-BFB (PID)	72.2 %	50-150			"	"	n	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/01/00 14:29

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-01-10 (B0K0412-05) Soil	Sampled: 11/14/00 11	:40 Receive	ed: 11/14/00	19:00	_				
Gasoline Range Hydrocarbons		5.00	mg/kg dry	1	0K19007	11/19/00	11/20/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	n	**	h	**	si .	
Toluene	ND	0.0500	"	n	ħ	"	n	n	
Ethylbenzene	ND	0.0500	n	"	17	II.	n	n	
Xylenes (total)	ND	0.100	D	n	"	n	D	n	
Surrogate: 4-BFB (FID)	89.2 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	85.5 %	50-150			"	"	"	"	
SB-01-14 (B0K0412-06) Soil	Sampled: 11/14/00 12	:05 Receive	ed: 11/14/00	19:00					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K19007	11/19/00	11/20/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	H	n	n	n	9	n	
Toluene	ND	0.0500	tt	11	n	n	u u	n	
Ethylbenzene	ND	0.0500	n	n	11	U	"	U	
enes (total)	ND	0.100	n	"	11	n	n	n	
rogate: 4-BFB (FID)	70.1 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	73.5 %	50-150			"	"	"	"	
SB-02-2 (B0K0412-08) Soil S	Sampled: 11/14/00 13:	30 Receive	d: 11/1 <u>4/00</u>	19:00					
Gasoline Range Hydrocarbon	s 217	20.0	mg/kg dry	4	0K19007	11/19/00	11/20/00	NWTPH-Gx/8021B	G-01
Benzene	ND	0.200	n	Ħ	n	n	"	II .	
Toluene	ND	0.200	II	n	n	**	h	Ħ	
Ethylbenzene	ND	0.200	11	n	"	n	u	71	
Xylenes (total)	ND	0.400	11	p	н	н	"		
Surrogate: 4-BFB (FID)	187 %	50-150			"	"	"	"	S-02
Surrogate: 4-BFB (PID)	117 %	50-150			"	"	"	"	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-02-5 (B0K0412-09) Soil	Sampled: 11/14/00 13:4	5 Receive	d: 11/14/00 1	19:00					
Gasoline Range Hydrocarbons	s ND	5.00	mg/kg dry	1	0K19007	11/19/00	11/20/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	71	n	n	n	n	
Toluene	ND	0.0500	n	11	11	bi	11	n	
Ethylbenzene	ND	0.0500	n	11	u	**	**	n	
Xylenes (total)	ND	0.100	II	19	11	**	**	17	
Surrogate: 4-BFB (FID)	77.2 %	50-150			,,	"	" ,	"	
Surrogate: 4-BFB (PID)	80.0 %	50-150			"	"	"	n	
SB-02-10 (B0K0412-10) Soil	Sampled: 11/14/00 14:	:11 Receiv	ed: 1 <u>1/14/0</u> 0	19:00					·
Gasoline Range Hydrocarbons	s ND	5.00	mg/kg dry	1	0K19007	11/19/00	11/20/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	n	н	IT	n	**	
Toluene	ND	0.0500	u	**	11	n	n	n	
Ethylbenzene	ND	0.0500	n	n	"	**	71	Ħ	
Xylenes (total)	ND	0.100	tı	,		**	п	IT	_()
Surrogate: 4-BFB (FID)	79.2 %	50-150			"	"	"	"	12.
Surrogate: 4-BFB (PID)	83.5 %	50-150			"	"	"	"	
SB-02-14 (B0K0412-11) Soil	Sampled: 11/14/00 14	:31 Receiv	ed: 11/14/00	19:00				·	
Gasoline Range Hydrocarbons	s ND	5.00	mg/kg dry	1	0K19007	11/19/00	11/20/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	n	**	**	n	Ħ	
Toluene	ND	0.0500	**	n	n	**	ij	n	
Ethylbenzene	ND	0.0500	19	n	n	н	H	. н	
Xylenes (total)	ND	0.100	11		n	'n	"	n	
Surrogate: 4-BFB (FID)	77.5 %	50-150			"	"	"	n	
Surrogate: 4-BFB (PID)	82.3 %	<i>50-150</i>			"	"	"	n	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/01/00 14:29

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-04-2 (B0K0412-15) Soil S	Sampled: 11/14/00 15:0	8 Receive	d: 11/14/00 1	19:00					
Gasoline Range Hydrocarbons	s 513	25.0	mg/kg dry	5	0K19007	11/19/00	11/21/00	NWTPH-Gx/8021B	G-01
Benzene	ND	0.250	n	Ħ	"	tt	ti	H	
Toluene	ND	0.250	и	71	"	"	17	n	
Ethylbenzene	ND	0.470	H	n	11	n	"	п	R-03
Xylenes (total)	ND	0.875	n	tr	IT	n	n	11	R-03
Surrogate: 4-BFB (FID)	419 %	50-150			,,	"	"	"	S-02
Surrogate: 4-BFB (PID)	189 %	50-150			"	11	n	n	S-02
SB-04-5 (B0K0412-16) Soil S	Sampled: 11/14/00 15:2	26 Receive	d: 11/14/00	19:00					
Gasoline Range Hydrocarbon	s 8.42	5.00	mg/kg dry	1	0K19007	11/19/00	11/20/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	n	"	11	H	ч	
Toluene	ND	0.0500	n	"	11	11	н	h	
Ethylbenzene	ND	0.0500	Ir	н	и	U	n	n	
enes (total)	ND	0.100	u	n	h	"	n -	†1	
rogate: 4-BFB (FID)	88.2 %	50-150		-	"	"	n	"	
Surrogate: 4-BFB (PID)	89.8 %	50-150			"	"	"	"	
SB-04-10 (B0K0412-17) Soil	Sampled: 11/14/00 15	:26 Receiv	ed: 11/14/00	19:00	_				
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K19007	11/19/00	11/20/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	Ħ	n	n	h	*1	Ħ	
Toluene	ND	0.0500	11	11	н	n	ıı	lt	
Ethylbenzene	ND	0.0500	Ħ	n	ıı	n	II .	Ħ	
Xylenes (total)	ND	0.100	**	n	n 	**			
Surrogate: 4-BFB (FID)	75.3 %	50-150			"	"	"	· ·	
Surrogate: 4-BFB (PID)	75.7 %	50-150			"	,,	"	"	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-01-W (B0K0412-01) Water	Sampled: 11/14/00	16:50 Reco	eived: 11/14/	00 19:00					
Diesel Range Hydrocarbons	10.9	2.75	mg/l	11	0K16015	11/16/00	11/18/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	5.50	"		Ħ	n	**	II	
Surrogate: 2-FBP	67.8 %	50-150			"	"	"	"	
SB-01-2 (B0K0412-03) Soil San	npled: 11/14/00 10:	45 Receive	d: 11/14/00 1	19:00					
Diesel Range Hydrocarbons	114	10.0	mg/kg dry	1	0K18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	116	25.0	n	D	*				
Surrogate: 2-FBP	77.7 %	50-150			"	"	"	n	
SB-01-5 (B0K0412-04) Soil San	npled: 11/14/00 11:	05 Receive	d: 11/14/00	19:00					
Diesel Range Hydrocarbons	40.9	10.0	mg/kg dry	1	0K18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	55.9	25.0	"	#	H	11	11	n	
Surrogate: 2-FBP	77.8 %	50-150			**	"	"	"	
SB-01-10 (B0K0412-05) Soil Sa	mpled: 11/14/00_11	:40 Receiv	ed: 11/14/00	19:00					<u> </u>
Diesel Range Hydrocarbons	47.2	10.0	mg/kg dry	1	0K18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	26.2	25.0	"	"	, "		11	n	
Surrogate: 2-FBP	127 %	50-150			"	"	"	Ħ	
SB-01-14 (B0K0412-06) Soil Sa	mpled: 11/14/00 12	:05 Receiv	ed: 11/14/00	19:00					_
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	Ħ	11	11	n	н	
Surrogate: 2-FBP	81.1 %	50-150	_		"	"	"	"	
SB-02-2 (B0K0412-08) Soil San	npled: 11/14/00 13:	30 Receive	d: 11/14/00	19:00					
Diesel Range Hydrocarbons	1400	10.0	mg/kg dry	1	0K18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	158	25.0		**	*1	17	b	n	
Surrogate: 2-FBP	%	50-150		_	"	,,	"	"	S-0.
Surrogate: Octacosane	93.8 %	50-150			n	"	,,	n	

North Creek Analytical - Bothell

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Project-Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

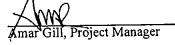
Reported: 12/01/00 14:29

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting							37-4
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-02-5 (B0K0412-09) Soil	Sampled: 11/14/00 13:4	5 Received	1: 11/14/00 I	19:00	<u> </u>				
Diesel Range Hydrocarbons	15.3	10.0	mg/kg dry	1	0K18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	tı	**	n 	<u> </u>	n		
Surrogate: 2-FBP	73.7 %	50-150			"	"	"	,,	
SB-02-10 (B0K0412-10) Soil	Sampled: 11/14/00 14	:11 Receive	ed: 11/14/00	19:00	<u>_</u>				
Diesel Range Hydrocarbons	14.0	10.0	mg/kg dry	. 1	0K18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	ır	17	**	"	11		
Surrogate: 2-FBP	86.3 %	50-150			"	"	"	"	
SB-02-14 (B0K0412-11) Soil	Sampled: 11/14/00 14	:31 Receiv	ed: 11/14/00	19:00					_
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	OK 18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	, ND	25.0	n	"	**	"	"	n	
Surrogate: 2-FBP	74.3 %	50-150			"	"	11	"	
04-2 (B0K0412-15) Soil	Sampled: 11/14/00 15:	08 Receive	d: 11/14/00	19:00					
sel Range Hydrocarbons	5670	110	mg/kg dry	11	0K18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbo	ons 2320	275	n	"		Ħ	n)ı	
Surrogate: 2-FBP	%	50-150			n	"	n	"	S-05
Surrogate: Octacosane	74.6 %	50-150			"	"	"	"	
SB-04-5 (B0K0412-16) Soil	Sampled: 11/14/00 15:	26 Receive	d: <u>11/14/00</u>	19:00					
Diesel Range Hydrocarbons	217	10.0	mg/kg dry	1	0K18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbo		25.0	n	**	"		<u></u>	<u></u>	
Surrogate: 2-FBP	71.0 %	50-150			<i>n</i>	11	"	"	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Project: West Commodore Way Phase II

Project Number: n/a Bothell WA, 98011 Project Manager: Bryan Graham Reported:

12/01/00 14:29

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting		-					-
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-04-10 (B0K0412-17) Soil	Sampled: 11/14/00 15	5:26 Receiv	ed: 11/14/00	19:00					
Diesel Range Hydrocarbons	19.3	10.0	mg/kg dry	1	0K18006	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	· ND	25.0	. "	π	n	н	n	b	
Surrogate: 2-FBP	74.8 %	50-150			"	n	"	"	-

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/01/00 14:29

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Kesult								
SB-01-W (B0K0412-01) Wate	er Sampled: 11/14/00 16	:50 Rece	ived: 11/14/	00 19:00	-				
Lead		0.00100	mg/l	1	0K20052	11/20/00	11/25/00	EPA 6020	
SB-01-2 (B0K0412-03) Soil	Sampled: 11/14/00 10:45	Receive	d: 11/14/00 1	19:00			<u> </u>		
Lead	9.14	0.305	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	
SB-01-5 (B0K0412-04) Soil	Sampled: 11/14/00 11:05	Receive	d: 11/14/00	19:00					
Lead	3.86	0.329	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	
SB-01-10 (B0K0412-05) Soil	Sampled: 11/14/00 11:40	0 Receiv	ed: 11/14/0 <u>0</u>	19:00					
Lead	2.62	0.318	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	
SB-01-14 (B0K0412-06) Soil	Sampled: 11/14/00 12:0	5 Receiv	ed: 11/14/00	19:00					
Lead	2.54	0.309	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	
SB-02-2 (B0K0412-08) Soil	Sampled: 11/14/00 13:30	Receive	d: 11/14/00	19:00					
→ıd	3.34	0.284	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	
02-5 (B0K0412-09) Soil	Sampled: 11/14/00 13:45	Receive	d: 11/14/00	19:00					
Lead	6.26	0.279	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	
SB-02-10 (B0K0412-10) Soil	Sampled: 11/14/00 14:1	1 Receiv	ed: 11/14/00	19:00					
Lead	6.07	0.329	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	
SB-02-14 (B0K0412-11) Soil	Sampled: 11/14/00 14:3	1 Receiv	ed: 11/14/00	19:00					
Lead	4.60	0.314	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/01/00 14:29

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Re	porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-04-2 (B0K0412-15) Soil	Sampled: 11/14/00 15:08	Receive	d: 11/14/00	19:00					
Lead	4,55	0.305	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	,
SB-04-5 (B0K0412-16) Soil	Sampled: 11/14/00 15:26	Receive	d: 11/14/00	19:00					
Lead	5.13	0.331	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	
SB-04-10 (B0K0412-17) Soil	Sampled: 11/14/00 15:26	Receiv	ed: 11/14/00	19:00					
Lead	3.07	0.281	mg/kg dry	1	0K21029	11/21/00	11/23/00	EPA 6020	!

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-01-W (B0K0412-01) Wat	er Sampled: 11/14/00	16:50 Rece	eived: 11/14/	00 19:00					
Pentachlorophenol	ND	0.500	ug/l	1	0K17018	11/17/00	11/19/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	97.1 %	30-150			"	'n	- "	"	
SB-01-0.6 (B0K0412-02) Soil	Sampled: 11/14/00 1	0:05 Receiv	ed: 11/14/00	19:00					
Pentachlorophenol	0.930	0.500	mg/kg dry	10	0K21020	11/21/00	11/22/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	60.6 %	30-150			"	"	"	,,	
SB-01-2 (B0K0412-03) Soil	Sampled: 11/14/00 10:	45 Received	d: 11/14/00 1	19:00					
Pentachlorophenol	ND	0.250	mg/kg dry	5	0K21020	11/21/00	11/22/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	66.9 %	30-150			"	"	"	"	
SB-01-5 (B0K0412-04) Soil	Sampled: 11/14/00 11:	05 Receive	d: 11/14/00]	19:00					
Pentachlorophenol	0.0871	0.0500	mg/kg dry	1	0K21020	11/21/00	11/22/00	GCMS-SIM	
~rogate: 2,4,6-TBP	75.5 %	30-150			"	н	"	,,	
-01-10 (B0K0412-05) Soil	Sampled: 11/14/00 1	1:40 Receiv	ed: 11/14/00	19:00	_				
Pentachlorophenol	0.0812	0.0500	mg/kg dry	1	0K21020	11/21/00	11/22/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	64.1 %	30-150			"	**	"	"	
SB-01-14 (B0K0412-06) Soil	Sampled: 11/14/00 1	2:05 Receiv	ed: 11/14/00	19:00					
Pentachlorophenol	0.0578	0.0500	mg/kg dry	1	0K21022	11/21/00	11/28/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	90.8 %	30-150			"	"	"	"	
SB-02-0.6 (B0K0412-07) Soi	Sampled: 11/14/00 1	0:13 Receiv	ved: 11/14/0	0 19:00					
Pentachlorophenol	1.15	1.00	mg/kg dry	20	0K21022	11/21/00	11/28/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	79.9 %	30-150			"	e	"	"	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Project Manager: Bryan Graham Bothell WA, 98011

12/01/00 14:29

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting	· · ·	-	-	-			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-02-2 (B0K0412-08) Soil	Sampled: 11/14/00 13:	30 Receive	d: 11/14/00 1	19:00					
Pentachlorophenol	ND	0.250	mg/kg dry	5	0K21022	11/21/00	11/28/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	83.2 %	30-150			,,	"	n	n	
SB-02-5 (B0K0412-09) Soil	Sampled: 11/14/00 13:	45 Receive	d: 11/14/00	19:00					
Pentachlorophenol	0.0615	0.0500	mg/kg dry	1	0K21022	11/21/00	11/28/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	68.3 %	30-150			"	"	n	"	
SB-02-10 (B0K0412-10) Soil	Sampled: 11/14/00 14	1:11 Receiv	ed: 11/14/00	19:00					
Pentachlorophenol	0.0613	0.0500	mg/kg dry	1	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	108 %	30-150			n	"	n	"	
SB-02-14 (B0K0412-11) Soil	Sampled: 11/14/00 14	4:31 Receiv	ed: 11/14/00	19:00					
Pentachlorophenol	0.0585	0.0500	mg/kg dry	1	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	75.2 %	30-150		· · ·	"	"	"	Ħ	
SB-03-0.6 (B0K0412-12) Soi	il Sampled: 11/14/00 1	0:16 Receiv	ved: 11/14/0	19:00					
Pentachlorophenol	202	12.5	mg/kg dry	100	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	69.9 %	30-150			"	н	"	"	
SB-04-0.6 (B0K0412-13) Soi	il Sampled: 11/14/00 1	0:25 Receiv	ved: 11/14/0	0 19:00					
Pentachlorophenol	803	125	mg/kg dry	1000	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	100 %	30-150			"	"	"	"	
SB-05-0.6 (B0K0412-14) Soi	il Sampled: 11/14/00 1	0:31 Receiv	ved: 11/14/0	0 19:00					
Pentachlorophenol	2.18	0.250	mg/kg dry	5	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	94.1 %	30-150			,,	n	"	,,	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/01/00 14:29

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting					•		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method 	Notes
SB-04-2 (B0K0412-15) Soil	Sampled: 11/14/00 15:0	8 Receive	d: 11/14/00	19:00					
Pentachlorophenol	1.26	0.250	mg/kg dry	5	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	108 %	30-150			"	"	"	н	
SB-04-5 (B0K0412-16) Soil	Sampled: 11/14/00 15:2	6 Receive	d: 11/14/00	19:00					
Pentachlorophenol	20.9	5.00	mg/kg dry	100	0K21020	11/21/00	11/24/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	60.0 %	30-150			"	**	"	**	-
SB-04-10 (B0K0412-17) Soi	l Sampled: 11/14/00 15:	26 Receiv	ed: 11/14/00	19:00					
Pentachlorophenol	0.233	0.0500	mg/kg dry	1	0K21020	11/21/00	11/22/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	72.6 %	30-150		· <u>·</u>	,,	"	- "	**	



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West-Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-01-W (B0K0412-01) Water	Sampled: 11/14/00	16:50 Rece	eived: 11/14/	00 19:00					
Acenaphthene	0.772	0.100	ug/l	1	0K17018	11/17/00	11/19/00	GCMS-SIM	
Acenaphthylene	ND	0.100	11	n	Ħ	H	17	n	
Anthracene	0.167	0.100	u L	n	Ħ	n	"	n	
Benzo (a) anthracene	ND	0.100	н	n	17	11	н	n	
Benzo (a) pyrene	ND	0.100	"	n	n	II .	**	n	
Benzo (b) fluoranthene	ND	0.100	Ħ	n	n	*11	91	n	
Benzo (ghi) perylene	ND	0.100	H	11	11	n	h	Ħ	
Benzo (k) fluoranthene	ND	0.100	n	, n	Ħ	19	u		
Chrysene	ND	0.100	n	n	n	н	**	r r	
Dibenz (a,h) anthracene	ND	0.100	n	71	ti	н	n	н	
Fluoranthene	0.104	0.100	Ħ	**	n	11	n	**	
Fluorene	1.96	0.100	"	n	n	17	ti	n	
Indeno (1,2,3-cd) pyrene	ND	0.100	n	17	17	D	н	n	
Naphthalene	6.42	0.100	n	II	17	n	"	n	/
Phenanthrene	1.65	0.100	11	н	p	н	n	ħ	`
Pyrene	0.355	0.100	U	**	ti	n	II	11	
Surrogate: 2-FBP	84.1 %	12-107			"	"	"	"	
Surrogate: Nitrobenzene-d5	82.0 %	10-115			"	"	"	"	
Surrogate: p-Terphenyl-d!4	98.5 %	28-103			"	"	"	"	
SB-01-0.6 (B0K0412-02) Soil	Sampled: 11/14/00 1	0:05 Receiv	ed: 11/14/00	19:00					
Acenaphthene	ND	0.100	mg/kg dry	10	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	0.100	н	**	**	17	**	#	
Anthracene	ND	0.100	. "	11	n	н	n	ıı	
Benzo (a) anthracene	ND	0.100	*1	11	**	н	11	Ħ	
Benzo (a) pyrene	ND	0.100	**	n	n	**	.,	n	
Benzo (b) fluoranthene	ND	0.100	Ħ	n	**	Ħ	11	•	
Benzo (ghi) perylene	0.136	0.100	n	n	**		H	n	
Benzo (k) fluoranthene	ND	0.100	p		"	n	**	n	
Chrysene	ND	0.100	n	n	11	17	tr	n	
Dibenz (a,h) anthracene	ND	0.100	•		n	n	n	n	
Fluoranthene	ND	0.100	n	"	**	11	п	n	
Fluorene	ND	0.100	n	n	n	**	п	n	
Indeno (1,2,3-cd) pyrene	ND	0.100	11	н	n	**	n	71	
Naphthalene	ND	0.100	11	n	tt	"	**	и	
Phenanthrene	ND	0.100	n	n	н	"	tr	**	
Pyrene	ND	0.100	n	н	H	n	н	n	
1) 1 0 1 . 0									

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/01/00 14:29

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

•		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-01-0.6 (B0K0412-02) Soi	l Sampled: 11/14/00 1	0:05 Receiv	ed: 11/14/0	0 19:00					
Surrogate: Nitrobenzene-d5	70.9 %	10-136			0K16001	11/16/00	11/21/00	GCMS-SIM	
Surrogate: p-Terphenyl-d14	87.3 %	30-150			**	"	"	"	
SB-01-2 (B0K0412-03) Soil	Sampled: 11/14/00 10:	45 Received	d: 11/14/00	19:00				· · · ·	
Acenaphthene	ND	0.0500	mg/kg dry	5	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	0.0500	u	n	n	н	11	71	
Anthracene	ND	0.0500	ţi.	n	n	l7	H	n	
Benzo (a) anthracene	ND	0.0500	91		t†	n	n	n	
Benzo (a) pyrene	ND	0.0500	11	Ħ	n	n	n	n	
Benzo (b) fluoranthene	ND	0.0500	n	11	11		n	**	
Benzo (ghi) perylene	0.0617	0.0500	u	н	н	n	m	11	
Benzo (k) fluoranthene	ND	0.0500	71	n	n	n	n	n	
Chrysene	ND	0.0500	11	n	n	11	IT	и	
enz (a,h) anthracene	ND	0.0500	p	n	n	71	ti	n	
Granthene	ND	0.0500	n	11	11	Ħ	Ħ	ท	
riuorene	ND	0.0500	11	**	n	tr	n	**	
Indeno (1,2,3-cd) pyrene	ND	0.0500	11	н	n	n	n	n	
Naphthalene	ND	0.0500	11	H	tr	Ħ	17	n	
Phenanthrene	ND	0.0500	**	11	11	n	11	tr	
Pyrene	ND	0.0500	11	"	н	17	n	**	
Surrogate: 2-FBP	59.9 %	13-140			"	"	"	"	
Surrogate: Nitrobenzene-d5	68.1 %	10-136			"	"	,,	"	
Surrogate: p-Terphenyl-d14	83.7 %	30-150			**	"	"	n	
SB-01-5 (B0K0412-04) Soil		05 Receive	d: 11/14/00	19:00					
Acenaphthene	ND	0.0100	mg/kg dry	1	0K16001	11/16/00	11/21/00	GCMS-SIM ·	
Acenaphthylene Acenaphthylene	ND	0.0100	h,	ıı	ti	н	11	n	
Anthracene	ND ND	0.0100	4	11	tı	n	h	v	
Benzo (a) anthracene	ND	0.0100	**	11	н	**	п	u	
Benzo (a) pyrene	ND	0.0100	**	н	17	11	u.	"	
Benzo (b) fluoranthene	ND	0.0100	n	п	n	71	79	11	
Benzo (ghi) perylene	0.0118	0.0100	17	ır	ti	11	11	ti	
Benzo (k) fluoranthene	ND	0.0100	n	n	**	n	n	n	
Chrysene	ND	0.0100	H		n	п	n	U	
Dibenz (a,h) anthracene	ND ND	0.0100	n	10	11	**	n	b	
• • •	ND	0.0100	n	н	11	99	n	n	
Fluoranthene	ND ND	0.0100	n	ıı	11	D	11	n	
Fluorene			n	п	*1	n.	11	n	
Indeno (1,2,3-cd) pyrene	ND	0.0100							

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/01/00 14:29

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-01-5 (B0K0412-04) Soil	Sampled: 11/14/00 11:0	5 Receive	d: 11/14/00 1	19:00		,			
Naphthalene	ND	0.0100	mg/kg dry	T	0K16001	11/16/00	11/21/00	GCMS-SIM	
Phenanthrene	0.0160	0.0100	**	ti	'n	**	n	**	
Pyrene	0.0118	0.0100	n	TI	II	**	**	h	
Surrogate: 2-FBP	65.2 %	13-140			"	"	"	"	
Surrogate: Nitrobenzene-d5	72.9 %	10-136			"	"	"	"	
Surrogate: p-Terphenyl-d14	92.9 %	30-150			"	n	"	"	
SB-01-10 (B0K0412-05) Soil	Sampled: 11/14/00 11:	40 Receiv	ed: 11/14/00	19:00					
Acenaphthene	ND	0.0100	mg/kg dry	1	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	0.0100	17	"	n	n	**	**	
Anthracene	ND	0.0100	17	n	11	n	**	11	
Benzo (a) anthracene	ND	0.0100	Ħ	n	11	n	P	,,	
Benzo (a) pyrene	ND	0.0100	11	n	"	"		"	٠ - سر
Benzo (b) fluoranthene	ND	0.0100	n	"	n	**	•	" .	[]
Benzo (ghi) perylene	ND	0:0100	n	Ħ	n	71	**	"	
Benzo (k) fluoranthene	ND	0.0100	H	**	11	ħ	"	n	
Chrysene	ND	0.0100	₩	n	11	n	n	Ħ	
Dibenz (a,h) anthracene	ND	0.0100	11	Ħ	11	Ħ	lt .	•	
Fluoranthene	ND	0.0100	n	11	17	n	n	**	
Fluorene	ND	0.0100	II	n	ıı	ч	11	11	
Indeno (1,2,3-cd) pyrene	ND	0.0100	n	**	n	"	n	n	
Naphthalene	ND	0.0100	n	"	ti	n	**	n	
Phenanthrene	0.0215	0.0100	n	**	n	n	**	n	
Pyrene	0.0116	0.0100	и	n	n	n	"	* **	
Surrogate: 2-FBP	54.9 %	13-140	-		,,	"	"	"	
Surrogate: Nitrobenzene-d5	63.1 %	10-136			"	"	"	"	
Surrogate: p-Terphenyl-d14	91.3 %	30-150			"	**	"	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-01-14 (B0K0412-06) Soil	Sampled: 11/14/00 12	:05 Receive	ed: 11/14/00	19:00					
Acenaphthene	ND	0.0100	mg/kg dry	1	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	0.0100	11	11	n	11	n	Ħ	
Anthracene	ND	0.0100	"	n	11	n	n	n	
Benzo (a) anthracene	ND	0.0100	**	ıı	n	n	n	n	
Benzo (a) pyrene	ND	0.0100	17	n	Ħ	n	D	11	
Benzo (b) fluoranthene	ND	0.0100	n	tt .	n	n	r	17	
Benzo (ghi) perylene	ND	0.0100	p	n	11	**	v	Ħ	
Benzo (k) fluoranthene	ND	0.0100	u	r	н		n	н	
Chrysene	ND	0.0100	n	tr	n	**	n	ti	
Dibenz (a,h) anthracene	ND	0.0100	11	"	11	n	n	n	
Fluoranthene	ND	0.0100	Ħ	n	#1	n	11	Ħ	
Fluorene	ND	0.0100	**	**	D	**	17	11	
Indeno (1,2,3-cd) pyrene	ND	0.0100	U	n	11	n	**	h	
ohthalene	ND	0.0100	**	n	11	h	н	n	
nanthrene	ND	0.0100	H	n	n	**	tı	n	
**	ND	0.0100	11	n	и	ıı	**	H	
Pyrene	58.7 %	13-140			,,		"	,,	
Surrogate: 2-FBP		13-140 10-136			p	,,	,,	"	
Surrogate: Nitrobenzene-d5	68.4 %				"	,,	"	,,	
Surrogate: p-Terphenyl-d14	90.8 %	30-150							
SB-02-0.6 (B0K0412-07) Soil	Sampled: 11/14/00 1		ved: 11/14/0						
Acenaphthene	ND	0.0500	mg/kg dry	5	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	0.0500	"	H	н	"	n	n	
Anthracene	ND	0.0500	p	n	n	11	n	n	
Benzo (a) anthracene	ND	0.0500	Ħ	11	H	11	n	n	
Benzo (a) pyrene	· ND	0.0500	n	N	11	11	19	"	
Benzo (b) fluoranthene	ND	0.0500	tr.	m .	n	h	11	n	
Benzo (ghi) perylene	ND	0.0500	11	n	*1	ŧ	17	**	
Benzo (k) fluoranthene	ND	0.0500	· ·	n	n	17	11	n	
Chrysene	ND	0.0500	U	Ħ	Ħ	n	•	н	
Dibenz (a,h) anthracene	ND	0.0500	**	n	n	Ħ	ti .	•	
Fluoranthene	ND	0.0500	n	n	II.	1)	11	Ħ	
Fluorene	ND	0.0500	II .	н	n	ıı	If	76	
Indeno (1,2,3-cd) pyrene	ND	0.0500	11	n		п	u	n	
Naphthalene	ND	0.0500	n	n	п		n	**	
Phenanthrene	ND	0.0500	*1	н	n	u	n	н	
Pyrene	ND	0.0500	n	u	11	17	11	n	
	עוו	0.0500							

rth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project Number: n/a

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

Reported: 12/01/00 14:29

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-02-0.6 (B0K0412-07) Soi	l Sampled: 11/14/00 10	:13 Receiv	ved: 11/14/00	0 19:00					-
Surrogate: Nitrobenzene-d5	71.1 %	10-136	-	_	0K16001	11/16/00	11/21/00	GCMS-SIM	
Surrogate: p-Terphenyl-d14	98.5 %	30-150			"	"	"	"	
SB-02-2 (B0K0412-08) Soil	Sampled: 11/14/00 13:3	0 Receive	d: 11/14/00 1	19:00					
Acenaphthene	0.343	0.0500	mg/kg dry	5	0K1600J	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	0.0500	r	H	n	**	n	n	
Anthracene	0.153	0.0500	*	н	n	**	n	п	
Benzo (a) anthracene	ND	0.0500	11	n	17	**	11	n	
Benzo (a) pyrene	ND	0.0500	**	н	n	77	11	Ħ	
Benzo (b) fluoranthene	ND	0.0500	n	n	n	*1	**	Ħ	
Benzo (ghi) perylene	ND	0.0500	**	н	H	**	**	H	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	ħ	71	r	
Chrysene	0.0766	0.0500	"	n	n	**	"	n	
Dibenz (a,h) anthracene	ND	0.0500	11	н	11	*1	**	n	1
Fluoranthene	0.129	0.0500	ti .	p	11	**	Ħ		١,
Fluorene	0.975	0.0500	n	n	n	**	. н	Ħ	
ndeno (1,2,3-cd) pyrene	ND	0.0500	n	11	11	*1	**	n	
Naphthalene	0.0967	0.0500	۳.	11	"	**	π	n	
Phenanthrene	1.59	0.0500	n	11	11	**	n	'n	
Pyrene	0.536	0.0500	u	n	n	71	**	и	
Surrogate: 2-FBP	65.7 %	13-140			"	"	n	"	
Surrogate: Nitrobenzene-d5	63.2 %	10-136			"	"	•	"	
Surrogate: p-Terphenyl-d14	94.0 %	30-150			,,	"	n	"	
SB-02-5 (B0K0412-09) Soil	Sampled: 11/14/00 13:4	5 Receive	d: 11/14/00 1	19:00				•	
Acenaphthene	ND	0.0100	mg/kg dry	1	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	0.0100	n	**	Ħ	н	ir .	n	
Anthracene	ND	0.0100	17	11	*1	n	n	я	
Benzo (a) anthracene	ND	0.0100	n	n	**	n	н	n	
Benzo (a) pyrene	ND	0.0100	n	n	n	п	n	H	
Benzo (b) fluoranthene	ND	0.0100	11	n	n	n	lt.	n	
Benzo (ghi) perylene	0.0141	0.0100	Ħ	n	n	n	h	п	
Benzo (k) fluoranthene	ND	0.0100	n	IT	n	п	n	n	
Chrysene	ND	0.0100	0	n	h	n	77	11	
Dibenz (a,h) anthracene	ND	0.0100	n	IT	n	11	11	¢ı	
luoranthene	ND	0.0100	11	PT .	17	17	**	*1	
· · ·	ND 0.0116	0.0100 0.0100	11 H	H	11	17	11	11	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported: 12/01/00 14:29

Project Manager: Bryan Graham

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-02-5 (B0K0412-09) Soil	Sampled: 11/14/00 13:4	15 Received	d: 11/14/00 1	19:00					
Naphthalene	ND	0.0100	mg/kg dry	1	0K16001	11/16/00	11/21/00	GCMS-SIM	
Phenanthrene	0.0273	0.0100	п	8	Ħ	Ħ	Ħ	n	
Pyrene	0.0133	0.0100	"	n	ti	"	<u></u>	n	
Surrogate: 2-FBP	67.1 %	13-140			"	"	N	"	
Surrogate: Nitrobenzene-d5	70.5 %	10-136			"	"	"	"	
Surrogate: p-Terphenyl-d14	90.8 %	30-150		•	"	"	"	"	
SB-02-10 (B0K0412-10) Soil	Sampled: 11/14/00 14	:11 Receiv	ed: 11/14/00	19:00					
Acenaphthene	ND	0.0100	mg/kg dry	1	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	0.0100	ıı	11	11	li .	n		
Anthracene	ND	0.0100	11	н	71	**	11	11	
Benzo (a) anthracene	ND	0.0100	Ď	n	"	"	11	n	
Benzo (a) pyrene	ND	0.0100	17	11	11	Ħ	н	Ħ	
nzo (b) fluoranthene	ND	0.0100	**	n	н	n	11	n	
nzo (ghi) perylene	ND	0.0100	Ħ	Ħ	ir.	n	n		
Benzo (k) fluoranthene	ND	0.0100		11	n	н		**	
Chrysene	ND	0.0100	Ħ	11	**	Ħ	"	н	
Dibenz (a,h) anthracene	ND	0.0100	н	10	n	n	n	U	
Fluoranthene	0.0106	0.0100	11	н	**	**	D	11	
Fluorene	ND	0.0100	11	11	11	n	n	n	
Indeno (1,2,3-cd) pyrene	ND	0.0100	n .	Ħ	11	71	**	n	
Naphthalene	ND	0.0100	**	ħ	n	11	ń	i,	
Phenanthrene	0.0342	0.0100	lt.	11	n	11	n	n	
Pyrene	0.0138	0.0100	н	п	п		71	**	<u> </u>
Surrogate: 2-FBP	59.6 %	13-140			,,	"	"	"	
Surrogate: Nitrobenzene-d5	70.4 %	10-136			"	"	"	"	
Surrogate: p-Terphenyl-d14	87.2 %	30-150			"	n	"	"	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II 12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/01/00 14:29

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-02-14 (B0K0412-11) Soil	Sampled: 11/14/00 14	:31 Receiv	ed: 11/14/00	19:00		-			
Acenaphthene	ND	0.0100	mg/kg dry	1	0K16001	11/16/00	11/21/00	GCMS-SIM	_
Acenaphthylene	ND	0.0100	n	71	17	11	n	п	
Anthracene	ND	0.0100	n	n	17	n	17	n	
Benzo (a) anthracene	ND	0.0100	**	17	n	n	n	11	
Benzo (a) pyrene	0.0376	0.0100	"	17	n	*11	"	п	
Benzo (b) fluoranthene	ND	0.0100	17	n	**	11	n	lt .	
Benzo (ghi) perylene	ND	0.0100	n	n	**	n	11	н	
Benzo (k) fluoranthene	ND	0.0100	n	Ħ	17	n	n	Ħ	
Chrysene	ND	0.0100	н	n	H	n .	n	п	
Dibenz (a,h) anthracene	ND	0.0100	N	n	Ħ	ti	**	t7	
Fluoranthene	ND	0.0100	ħ	n	**	*1	n	P	
Fluorene	ND	0.0100	Ħ	n	*1	**	11	**	
Indeno (1,2,3-cd) pyrene	ND	0.0100	n	11	H	11	11	**	,
Naphthalene	ND	0.0100	11	n	11	17	ı	11	(
Phenanthrene	ND	0.0100	n	ħ	n	n	n	Ħ	
Pyrene	ND	0.0100	II	n	n	"	n	m	
Surrogate: 2-FBP	64.7 %	13-140	·- ·-		н	"	n	,,	
Surrogate: Nitrobenzene-d5	68.3 %	10-136			. "	"	"	n	
Surrogate: p-Terphenyl-d14	93.6 %	30-150			"	,,	"	"	
SB-03-0.6 (B0K0412-12) Soil	Sampled: 11/14/00 1	0:16 Receiv	ved: 11/14/00	0 19:00					
Acenaphthene	1.74	1.25	mg/kg dry	50	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	1.25	и	,	n	**	n	17	
Anthracene	2.12	1.25	11	n	Ħ	*	n	η .	
Benzo (a) anthracene	5.50	1.25	` n	n	n	**	"	"	
Benzo (a) pyrene	3.57	1.25	**	**	n	н	n	U	
Benzo (b) fluoranthene	3.38	1.25	n	v	n	17	"	11	
Benzo (ghi) perylene	2.99	1.25	n	11	n	n	IP	n	
Benzo (k) fluoranthene	ND	1.25	n	и	II.	17	10	п	
Chrysene	9.94	1.25	17	n	*	n	n	n	
Dibenz (a,h) anthracene	ND	1.25	17	n	"	**	n	п	
Fluoranthene	5.60	1.25	n	n	**	н	Ħ	'n	
Fluorene	2.61	1.25	11	"	**	n	**	11	
Indeno (1,2,3-cd) pyrene	2.03	1.25	n	Ħ	#	Ħ	11	71	
		1.25	н	71	n	**	"	u	
	2.61								
Naphthalene Phenanthrene	2.61 11.6	1.25	H	"	Ħ	P	17	n	
Naphthalene			H 17	n n	11	p D	17	11	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/01/00 14:29

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-03-0.6 (B0K0412-12) Soil	Sampled: 11/14/00 1	0:16 Receiv	ed: 11/14/00	19:00					
Surrogate: Nitrobenzene-d5	30.0 %	10-136			0K16001	11/16/00	11/21/00	GCMS-SIM	
Surrogate: p-Terphenyl-d14	120 %	30-150			"	**	"	"	
SB-04-0.6 (B0K0412-13) Soil	Sampled: 11/14/00 1	0:25 Receiv	ed: 11/14/00	0 19:00					
Acenaphthene	ND	0.500	mg/kg dry	50	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	0.500	n	н	IT	p	l T	17	
Anthracene	ND	0.500	н	19	ii .	"	Ħ	n	
Benzo (a) anthracene	ND	0.500	n	ti	11	*1	"	11 .	
Benzo (a) pyrene	ND	0.500	n	11	11	Ħ	**	11	
Benzo (b) fluoranthene	0.505	0.500	"	H	n		II .	n	
Benzo (ghi) perylene	1.05	0.500	11	P	n	11	11	**	
Benzo (k) fluoranthene	ND	0.500	и	n	n	**	n	n	
Chrysene	0.544	0.500	17	n	11	n	n	н	
enz (a,h) anthracene	ND	0.500	11	n	n	n	"	н	
pranthene	0.700	0.500	Ħ	Ħ	11	н	n	H	
rmorene	ND	0.500	н	'n	n	n	II	II .	
Indeno (1,2,3-cd) pyrene	0.622	0.500	n	H	n	н	ti	n	
Naphthalene	ND	0.500	n	n	u	н	n	n	
Phenanthrene	0.583	0.500	u	n	n	p	Ħ	11	
Pyrene	0.894	0.500	n	н	11	"	II.	II	
Surrogate: 2-FBP	63.9 %	13-140		_	"	n	H	"	
Surrogate: Nitrobenzene-d5	66.0 %	10-136			"	"	"	"	
Surrogate: p-Terphenyl-d14	104 %	30-150			"	Ħ	"	n	
SB-05-0.6 (B0K0412-14) Soil	Sampled: 11/14/00 1	0:31 Receiv	ved: 11/14/0	0 19:00		_			
Acenaphthene	ND	0.0500	mg/kg dry	5	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	ND	0.0500	**	11	T	н	r	11	
Anthracene	ND	0.0500	n	n	77	n	n	п	
Benzo (a) anthracene	0.0933	0.0500	ıı	IT	b	n	U	n	
Benzo (a) pyrene	0.154	0.0500	h	11	n	**	n	n	
Benzo (b) fluoranthene	0.223	0.0500	17	0	**	n	11	U	
Benzo (ghi) perylene	0.235	0.0500	n	**	"	n	n	11	
Benzo (k) fluoranthene	0.0933	0.0500	n	н	n	n	n	Ħ	
Chrysene	0.219	0.0500	II	h	н	**	17	n	
Dibenz (a,h) anthracene	ND	0.0500	U	n	n	"	11	п	
Fluoranthene	0.434	0.0500	11	11	n	n	11	n	
Fluorene	ND	0.0500	11	n	19	п	n	11	
Indeno (1,2,3-cd) pyrene	0.154	0.0500	u	n	n	11	H	n	
Andeno (19290-cu) pliene	0.251	2.02.00							

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/01/00 14:29

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Amaluta	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Analyte	Result	— — Ellili	- Omis	————			Allalyzeu		
SB-05-0.6 (B0K0412-14) Soi	1 Sampled: 11/14/00 10	:31 Receiv	ved: 11/14/00	19:00					
Naphthalene	ND	0.0500	mg/kg dry	5	0K16001	11/16/00	11/21/00	GCMS-SIM	
Phenanthrene	0.426	0.0500	11	17	n	n	**	II	
Pyrene	0.381	0.0500	ħ	IT	n	11	n	n	
Surrogate: 2-FBP	93.6 %	13-140			"	11	"	п	
Surrogate: Nitrobenzene-d5	93.1 %	10-136			n	"	"	"	
Surrogate: p-Terphenyl-d14	119 %	30-150			"	"	"	"	
SB-04-2 (B0K0412-15) Soil	Sampled: 11/14/00 15:0	8 Receive	d: 11/14/00	19:00					
Acenaphthene	0.945	0.100	mg/kg dry	10	0K16001	11/16/00	11/21/00	GCMS-SIM	
Acenaphthylene	0.381	0.100	n	**	n	11	"	н	
Anthracene	1.09	0.100	11	**	n	н	"	n	
Benzo (a) anthracene	0.414	0.100	n	**	*1	11	"	n	
Benzo (a) pyrene	0.290	0.100	n	17	*1	**	'n	D)	
Benzo (b) fluoranthene	0.141	0.100	ir .	11	Ħ	17	"	n	(
Benzo (ghi) perylene	0.232	0.100	11	11	"	17	n	n	
Benzo (k) fluoranthene	ND	0.100	n	11	n	11	n		
Chrysene	0.630	0.100	n	n	17	n	11	. "	
Dibenz (a,h) anthracene	ND	0.100	n	H	17	n	**	н	
Fluoranthene	0.688	0.100	ti	n	n	11	"	W	
Fluorene	2.18	0.100	11	h	ti	11	n	n	
Indeno (1,2,3-cd) pyrene	0.124	0.100	*1	n	h	n	h	n	
Naphthalene	4.66	0.100	**	**	t	h	tr	` n	
Phenanthrene	6.01	0.100	**	Ħ	**	D		n	
Pyrene	3.66	0.100	*1	"	11	Ħ	**	n	
Surrogate: 2-FBP	67.6 %	13-140		-	"	"	"	"	
Surrogate: Nitrobenzene-d5	75.4 %	10-136			"	n	"	"	
Surrogate: p-Terphenyl-d14	95.7 %	30-150			"	"	"	n	

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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Project: West Commodore Way Phase II

SB-04-5 (B0K0412-16) Soil Sampled: 11/14/00 15:26 Received: 11/14/00 19:00 Acenaphthene		R	eporting							
Acenaphthene 0.164 0.100 mg/kg dry 10 0k21020 11/21/00 GCMS-SIM Acenaphthylene ND 0.100 """"""""""""""""""""""""""""""""""""	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Accamplithylene	SB-04-5 (B0K0412-16) Soil	Sampled: 11/14/00 15:26	Received	1: 11/14/00	19:00			_		
Acenaphthylene	Acenaphthene	0.164	0.100	mg/kg dry	10	0K21020	11/21/00	11/22/00	GCMS-SIM	
Anthracene 0.287 0.100 """"""""""""""""""""""""""""""""""""		ND	0.100	п	11	11	H	n	71	
Benzo (a) pyrene Benzo (b) fluoranthene 1.58 Benzo (b) fluoranthene 1.59 0.100 0.704 0.704	Anthracene	0.287	0.100	tr .	н	11	17		n	
Benzo (a) pyrene 1.46 0.100 """"""""""""""""""""""""""""""""""""	Benzo (a) anthracene	. 1.32	0.100	n	п	n	l7	Ħ	Ħ	
Benzo (b) fluoranthene 1.78 0.100 """"""""""""""""""""""""""""""""""""		1.46	0.100	**	l7	n	n	"	n	
Benzo (ghi) perylene 0.934 0.100 """"""""""""""""""""""""""""""""""""		1.78	0.100	n	H,	n	11	n	н	
Benzo (k) Pluoranthene 1.59 0.100 " " " " " " " " " " " " " " " " " "	• •	0.934	0.100	h	**	n	n	n	H	
Chrysene 1.59 0.100 """"""""""""""""""""""""""""""""""""		0.704	0.100	"	н	11	11	u	IT	
Dibenz (a,h) anthracene 0.246 0.100 " " " " " " " " " " " " " "		1.59	0.100	11	п	**	11	n	**	
Fluoranthene 2.60 0.100 """"""""""""""""""""""""""""""""""""		0.246	0.100	h	**	n	**	H	n	
Fluorene Indeno (1,2,3-cd) pyrene 0,106 0.100 """"""""""""""""""""""""""""""""""""		2.60	0.100	n	11	. "	n	"	n	
Indeno (1,2,3-cd) pyrene 0.991 0.100 """"""""""""""""""""""""""""""""""""		0.106	0.100	U	"	**	11	H	b	
hthalene ND 0.100 "	Indeno (1,2,3-cd) pyrene	0.991	0.100	11	n	n	11	11	n	
Pyrene 2.73 0.100 " " " " " " " " " "		ND	0.100	н	11	ır	71	n	tt	
Pyrene 2.73 0.100 """"""""""""""""""""""""""""""""""""	nanthrene	1.21	0.100	h	**	"	н	11	н	
Surrogate: 2-FBP 64.9 % 10-136 15-140 Surrogate: Nitrobenzene-d5 69.8 % 10-136 " " " " " " Surrogate: p-Terphenyl-d14 101 % 30-150 " " " " " " SB-04-10 (B0K0412-17) Soil Sampled: 11/14/00 15:26 Received: 11/14/00 19:00 Acenaphthene ND 0.0100 mg/kg dry 1 0K21020 11/21/00 11/22/00 GCMS-SIM Acenaphthylene ND 0.0100 " " " " " " " " " " " " " " " " " "		2.73	0.100	11	n	n	D	. "	II	
Surrogate: Nitrobenzene-d5 69.8 % 10-136 " " " " " " " Surrogate: p-Terphenyl-d14 101 % 30-150 30-150 " " " " " " " " SB-04-10 (B0K0412-17) Soil Sampled: 11/14/00 15:26 Received: 11/14/00 19:00 Acenaphthene ND 0.0100 mg/kg dry 1 0K21020 11/21/00 11/22/00 GCMS-SIM Acenaphthylene ND 0.0100 " " " " " " " " " " " " " " " " " " " " " " " " " " " " "	Surrogate: 2-FBP	64.9 %	13-140		<u> </u>	"	n	"	н	
Surrogate: p-Terphenyl-d14 101 % 30-15 " " " " " " " " " " " " " " " " " " "		69.8 %	10-136			"	n	"	n	
Acenaphthene ND 0.0100 mg/kg dry 1 0K21020 11/21/00 11/22/00 GCMS-SIM Acenaphthylene ND 0.0100 "	_	101 %	30-150			"	"	"	"	
Acenaphthylene ND 0.0100 " " " " " " " " " " " " " " " " " "	SB-04-10 (B0K0412-17) Soi	l Sampled: 11/14/00 15:2	6 Receive	ed: 11/14/00	19:00					
Acenaphthylene ND 0.0100 """"""""""""""""""""""""""""""""""""	Acenaphthene	ND	0.0100	mg/kg dry	1	0K21020	11/21/00			
Anthracene ND 0.0100 " " " " " " " " " " " " " " " " " "	-	ND	0.0100	n	n	11	ti	u	U	
Benzo (a) anthracene Benzo (a) pyrene ND 0.0100 " " " " " " " " " " " " " " " " " "	-	ND	0.0100	71	11	II .	**	Ħ	11	
Benzo (a) pyrene ND 0.0100 " " " " " " " " " " " " Benzo (b) fluoranthene ND 0.0100 " " " " " " " " " " " " " " " " " "	Benzo (a) anthracene	ND	0.0100	IT	N	11	n	n .	11	
Benzo (b) fluoranthene ND 0.0100 "	* *	ND	0.0100	tr.	н	п	n	n	H	
Benzo (ghi) perylene Benzo (k) fluoranthene ND 0.0100 """"""""""""""""""""""""""""""		ND	0.0100	11	U	n	ti		i.	
Chrysene	Benzo (ghi) perylene	ND	0.0100	11	11		·		11	
Chrysene Dibenz (a,h) anthracene ND 0.0100 " Fluoranthene ND 0.0100 " " " " " " " " " " " " " " " " " "	Benzo (k) fluoranthene	· ND	0.0100	н	11	"		•	н	
Dibenz (a,h) anthracene ND 0.0100 Fluoranthene ND 0.0100 " " " " " " " " " " " " " " " " " " "	Chrysene	ND	0.0100	n	n	"			h	
Fluoranthene ND 0.0100 Fluorene ND 0.0100 " " " " " " " " " " " " " " " " " "	Dibenz (a,h) anthracene	ND	0.0100	ti .	u		U		n -	
Fluorene ND 0.0100 Indeno (1,2,3-cd) pyrene ND 0.0100 " <td>Fluoranthene</td> <td>ND</td> <td>0.0100</td> <td>Ħ</td> <td>11</td> <td></td> <td>Ħ</td> <td></td> <td>n</td> <td></td>	Fluoranthene	ND	0.0100	Ħ	11		Ħ		n	
Indeno (1,2,3-cd) pyrene ND 0.0100 Naphthalene 0.0151 0.0100 " " " " " " " " " " " " " " " " " " "	Fluorene	ND	0.0100	**	n	**	**		'n	•
Naphthalene 0.0151 0.0100 "	Indeno (1,2,3-cd) pyrene	ND	0.0100	lt .	n	n		n	n	
Phenanthrene 0.0276 0.0100 "		0.0151	0.0100	u	0	17	T	11	11	
Pyrene 0.0178 0.0100 " " " " " " " "	•	0.0276	0.0100	11	11	**	ir	n	11	
		0.0178	0.0100	Ħ .	ij	Ħ		"	11	
	<u> </u>	62.8 %	13-140			"	"	"	"	-

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported: 12/01/00 14:29

Project Manager: Bryan Graham

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-04-10 (B0K0412-17) Soil	Sampled: 11/14/00 15	:26 Receiv	ed: 11/14/0	0 19:00		-		·	1
Surrogate: Nitrobenzene-d5	73.5 %	10-136			0K21020	11/21/00	11/22/00	GCMS-SIM	
Surrogate: p-Terphenyl-d14	97.8 %	30-150			**	**	"	"	į

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	porting							į.
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-01-0.6 (B0K0412-02) Soil	Sampled: 11/14/00 10:05	Receive	ed: 11/14/(00 19:00					
Dry Weight	78.2	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
SB-01-2 (B0K0412-03) Soil	Sampled: 11/14/00 10:45	Received	: 11/14/00	19:00			_		
Dry Weight	64.2	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
SB-01-5 (B0K0412-04) Soil	Sampled: 11/14/00 11:05	Received	: 11/14/00	19:00					
Dry Weight	78.8	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
SB-01-10 (B0K0412-05) Soil	Sampled: 11/14/00 11:40	Receive	d: 11/14/0	0 19:00					
Dry Weight	79.7	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
SB-01-14 (B0K0412-06) Soil	Sampled: 11/14/00 12:05	Receive	d: 11/14/0	0 19:00					
Dry Weight	80.8	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
SB-02-0.6 (B0K0412-07) Soil	Sampled: 11/14/00 10:13	Receiv	ed: 11/14/0	00 19:00					
Weight	86.0	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
02-2 (B0K0412-08) Soil	Sampled: 11/14/00 13:30	Received	l: 11/14/00	19:00		_			
Dry Weight	82.4	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
SB-02-5 (B0K0412-09) Soil	Sampled: 11/14/00 13:45	Received	l: 11/14/00	19:00					
Dry Weight	80.2	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
SB-02-10 (B0K0412-10) Soil	Sampled: 11/14/00 14:11	Receive	ed: 11/14/0	0 19:00					
Dry Weight	81.6	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-02-14 (B0K0412-11) Soil	Sampled: 11/14/00 14:31	Receive	ed: 11/14/0	0 19:00					
Dry Weight	76.3	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
SB-03-0.6 (B0K0412-12) Soil	Sampled: 11/14/00 10:16	Receiv	ed: 11/14/0	00 19:00					
Dry Weight	86.4	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
SB-04-0.6 (B0K0412-13) Soil	Sampled: 11/14/00 10:25	Receiv	/ed: 11/14/(00 19:00					
Dry Weight	85.5	1.00	%	1	0K16053	11/16/00	11/17/00	BSOPSPL003R07	
SB-05-0.6 (B0K0412-14) Soil	Sampled: 11/14/00 10:31	Receiv	/ed: 11/14/(00 19:00					
Dry Weight	81.3	1.00	%	1.	0K16054	11/16/00	11/17/00	BSOPSPL003R07	
SB-04-2 (B0K0412-15) Soil	Sampled: 11/14/00 15:08	Receive	d: 11/14/00	19:00	•				
Dry Weight	80.2	1.00	%	1	0K16054	11/16/00	11/17/00	BSOPSPL003R07	
SB-04-5 (B0K0412-16) Soil	Sampled: 11/14/00 15:26	Receive	d: 11/14/00	19:00					
Dry Weight	81.4	1.00	%	1	0K16054	11/16/00	11/17/00	BSOPSPL003R07	(
SB-04-10 (B0K0412-17) Soil	Sampled: 11/14/00 15:26	Receiv	ed: 11/14/0	0 19:00					, , , , , , , , , , , , , , , , , , ,
Dry Weight	74.3	1.00	%	1	0K16054	11/16/00	11/17/00	BSOPSPL003R07	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K18007:	Prepared 11/18/00	Using E	PA 5030B	(P/T)							
Blank (0K18007-BLK	(1)										
Gasoline Range Hydroca	rbons	ND	50.0	ug/l							
Benzene		ND	0.500	11							
Toluene		ND	0.500	n							
Ethylbenzene		ND	0.500	n							
Xylenes (total)		ND	1.00	n							
Surrogate: 4-BFB (FID)		37.9		"	48.0	·	79.0	50-150			
Surrogate: 4-BFB (PJD)		40.4		"	48.0		84.2	50-150			
Blank (0K18007-BL)	(2)										
Gasoline Range Hydroca	rbons	ND	50.0	ug/l			· ·				
Benzene		ND	0.500	11							
T Allene		ND	0.500	u							
lbenzene		ND	0.500	ts							
Ayienes (total)		ND	1.00	11							
Surrogate: 4-BFB (FID)		40.2	· <u>-</u>	"	48.0		83.8	50-150			
Surrogate: 4-BFB (PID)		44.0		**	48.0		91.7	50-150			
LCS (0K18007-BS1)											
Gasoline Range Hydroca	rbons	475	50.0	ug/l	500		95.0	70-130			
Surrogate: 4-BFB (FID)		46.0			48.0	-	95.8	50-150			
LCS (0K18007-BS2)											_
Gasoline Range Hydroca	rbons	502	50.0	ug/l	500		100	70-130			_
Surrogate: 4-BFB (FID)		48.4		"	48.0		101	50-150		· · · · · · · · · · · · · · · · · · ·	
Duplicate (0K18007-	DUP1)						B0K0342-	-52	<u>-</u>		<u>, -</u>
Gasoline Range Hydroca	rbons	ND	50.0	ug/l		ND			18.8	25	
Surrogate: 4-BFB (FID)		41.6		"	48.0		86.7	50-150			

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II 12100 NE 195th Street

Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K18007:	Prepared 11/18/00	Using E	PA 5030B	3 (P/T)					-		
Duplicate (0K1800)	7-DUP2)			<u> </u>		Source: E	30K0342-	51			
Gasoline Range Hydro	carbons	ND	50.0	ug/l		ND			32.3	25	Q-05
Surrogate: 4-BFB (FIL	0)	39.0	"	"	48.0		81.3	50-150		-	
Matrix Spike (0K18	8007-MS1)					Source: E	30K0304-	03			
Benzene		10.7	0.500	ug/l	10.0	ND	106	70-130			
Toluene		10.4	0.500	17	10.0	ND	102	70-130			
Ethylbenzene		10.3	0.500	h	10.0	ND	103	70-130			
Xylenes (total)		30.7	1.00	If	30.0	ND	102	70-130			
Surrogate: 4-BFB (PIL	0)	45.7		"	48.0		95.2	50-150			
Matrix Spike Dup ((0K18007-MSD1)					Source: F	30K0304-	03			
Benzene	· · · · · ·	10.6	0.500	ug/l	10.0	ND	105	70-130	0.939	15	<i>z</i> ‴ ≥;
ТоІцепе		10.5	0.500	"	10.0	ND	103	70-130	0.957	15	()
Ethylbenzene		10.6	0.500	n	10.0	ND	106	70-130	2.87	15	1
Xylenes (total)		31.2	1.00	n	30.0	ND	103	70-130	1.62	15	
Surrogate: 4-BFB (PIL))	46.9		"	48.0	•	97.7	50-150			
Batch 0K19007:	Prepared 11/19/00	Using E	PA 5030B	(MeOH)							
Blank (0K19007-B)	L K 1)					_					
Gasoline Range Hydro	carbons	ND	5.00	mg/kg wet							
Benzene		ND	0.0500	**							
Toluene		ND	0.0500	**				•			
Ethylbenzene		ND	0.0500	u							
Xylenes (total)		ND	0.100	. "							
Surrogate: 4-BFB (FIL	0)	3.12		"	4.00		78.0	50-150			
Surrogate: 4-BFB (PIL	D)	3.42		"	4.00		85.5	50-150			

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K19007: Prepared 11/19/0	0 Using E	PA 5030B	(MeOH)							
LCS (0K19007-BS1)										
Gasoline Range Hydrocarbons	31.9	5.00	mg/kg wet	25.0		128	70-130			•
Surrogate: 4-BFB (FID)	3.88		"	4.00		97.0	50-150			
Duplicate (0K19007-DUP1)					Source: 1	30K0498-	01			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		7.01			130	50	A-01
Surrogate: 4-BFB (FID)	3.64		"	4.70		77.4	50-150			
Duplicate (0K19007-DUP2)					Source: 1	30K0498-	02			
Gasoline Range Hydrocarbons	1000	50.0	mg/kg dry		1730			53.5	50	A-01
Surrogate: 4-BFB (FID)	24.0		"	4.70		511	50-150		 -	S-02
Matrix Spike (0K19007-MS1)					Source: 1	B0K0412-	17			
zene	0.573	0.0500	mg/kg dry	0.673	ND	85.1	60-140	·		
ene	0.607	0.0500	n	0.673	ND	88.0	60-140			
Ethylbenzene	0.589	0.0500	**	0.673	ND	86.0	60-140			
Xylenes (total)	1.81	0.100	11	2.02	ND	88.1	60-140			
Surrogate: 4-BFB (PID)	4.56		,,	5.38		84.8	50-150			
Matrix Spike Dup (0K19007-MSD1)					Source: 1	B0K0412-	17			
Benzene	0.584	0.0500	mg/kg dry	0.673	ND	86.8	60-140	1.90	20	
Toluene	0.610	0.0500	11	0.673	ND	88.4	60-140	0.493	20	
Ethylbenzene	0.587	0.0500		0.673	ND	85.8	60-140	0.340	20	
Xylenes (total)	1.81	0.100	91	2.02	ND	88.1	60-140	0	20	
Surrogate: 4-BFB (PID)	4.30		"	5.38		79.9	50-150	_		





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Foster Wheeler Environmental.Corporation

12100 NE 195th Street Project Number: n/a Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/01/00 14:29

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

Project: West Commodore Way Phase II

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K16015:	Prepared 11/16/00	Using El	PA 3520C	/600 Series							
Blank (0K16015-BI	LK1)					•					
Diesel Range Hydrocar	bons	ND	0.250	mg/l		•					
Lube Oil Range Hydro	carbons	ND	0.500	Ħ							
Surrogate: 2-FBP		0.308		"	0.320	- .	96.3	50-150			
LCS (0K16015-BS1)										
Diesel Range Hydrocar	rbons	1.59	0.250	mg/l	2.00		79.5	60-140			
Surrogate: 2-FBP		0.308		"	0.320		96.3	50-150			
LCS Dup (0K16015	5-BSD1)										
Diesel Range Hydrocar	rbons	1.67	0.250	mg/l	2.00	-	83.5	60-140	4.91	40	
Surrogate: 2-FBP		0.298		"	0.320		93.1	50-150		,	
Batch 0K18006:	Prepared 11/18/00	Using E	PA 3550B								
Blank (0K18006-Bl	L K1)										
Diesel Range Hydroca	rbons	ND	10.0	mg/kg wet							
Lube Oil Range Hydro	carbons	, ND	25.0	**							
Surrogate: 2-FBP		9.45		"	10.7		88.3	50-150			
1 CC (01/1000C DC1	'										
LCS (0K18006-BS1	• •										
Diesel Range Hydroca		60.0	10.0	mg/kg wet	66.7		90.0	60-140			
•		60.0 7.65	10.0	mg/kg wet	66.7		90.0 71.5	60-140 50-150			
Diesel Range Hydroca	rbons		10.0			Source: 1		50-150			
Diesel Range Hydroca	rbons 6-DUP1)		10.0			Source: 1	71.5	50-150		50	-
Diesel Range Hydroca Surrogate: 2-FBP Duplicate (0K1800)	rbons 6-DUP1) rbons	7.65		"			71.5	50-150	3.19	50 50	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Snike

Source

12100 NE 195th Street

Project Number: n/a

Reporting

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/01/00 14:29

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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K18006:	Prepared 11/18/00	Using El	PA 3550B								
Duplicate (0K18006	-DUP2)	-	·			Source: F	80K0412-	16			
Diesel Range Hydrocar		273	10.0	mg/kg dry		217			22.9	50	
Lube Oil Range Hydrod		307	25.0	n		260			16.6	50	
Surrogate: 2-FBP		9.90		"	13.1		75.6	50-150	_		



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

RPD

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		KPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K20052:	Prepared 11/20/00	Using E	PA 3020A								
Blank (0K20052-BI	LK1)										
Lead		ND	0.00100	mg/l	•						
LCS (0K20052-BS1)										
Lead		0.204	0.00100	mg/l	0.200		102	80-120			
Matrix Spike (0K26	0052-MS1)					Source: F	30K0343-	02			
Lead		0.214	0.00100	mg/l	0.200	0.00149	106	75-125			
Matrix Spike Dup ((0K20052-MSD1)					Source: I	30K0343-	02			
Lead		0.215	0.00100	mg/l	0.200	0.00149	107	75-125	0.466	20	_
Batch 0K21029:	Prepared 11/21/00	Using E	PA 3050B								
Blank (0K21029-Bl	LK1)						- -				
Lead		ND	0.500	mg/kg wet				,			(
LCS (0K21029-BS)	1)										
Lead	· _ · · · · · · · · · · · · · · · · · ·	25.5	0.500	mg/kg wet	25.0	- <u> </u>	102	80-120			
Matrix Spike (0K2)	1029-MS1)					Source: I	30K0436-	05			
Lead	<u> </u>	20.4	0.316	mg/kg dry	17.1	3.10	101	70-130			-
Matrix Spike Dup ((0K21029-MSD1)					Source: I	30K0436-	05			
Lead		20.8	0.316	mg/kg dry	17.1	3.10	104	70-130	1.94	20	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

12/01/00 14:29

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

		Reporting	71-14-	Spike	Source	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%KEC	Lilling			110103
Batch 0K17018: Prepared 11/17/00	Using E	PA 3520C	/600 Series							
Blank (0K17018-BLK1)										
Pentachlorophenol	ND	0.500	ug/l							
Surrogate: 2,4,6-TBP	29.3		"	50.0		58.6	30-150			
LCS (0K17018-BS1)										
Pentachlorophenol	3.04	0.500	ug/l	4.00		76.0	30-150			
Surrogate: 2,4,6-TBP	32.6		"	50.0		65.2	30-150			
LCS Dup (0K17018-BSD1)				4.00		76.5	30-150	0.660	50	
Pentachlorophenol	3.02	0.500	ug/l 	4.00		75.5		0.000		
Surrogate: 2,4,6-TBP	37.4		"	50.0		7 4 .8	30-150			
Batch 0K21020: Prepared 11/21/00	Using E	PA 3550B						_		
k (0K21020-BLK1)									_	
remachlorophenol	ND	0.0500	mg/kg wet							
Surrogate: 2,4,6-TBP	1.39	-	"	1.67		83.2	30-150			
LCS (0K21020-BS1)										
Pentachlorophenol	0.449	0.0500	mg/kg wet	0.667		67.3	30-150			
Pentachlorophenol Surrogate: 2,4,6-TBP	1.06		,,	1.67	-	63.5	30-150			
Matrix Spike (0K21020-MS1)					Source:	B0K0412	-16			
Pentachlorophenol	79.5	5.00	mg/kg dry	0.819	20.9	7160	25-200			Q-
Surrogate: 2,4,6-TBP	1.39		"	2.05		67.8	30-150			
Matrix Spike Dup (0K21020-MSD1)					Source:	B0K0412	-16			
Pentachlorophenol	52.7	5.00	mg/kg dry	0.819	20.9	3880	25-200	40.5	50	Q.
Surrogate: 2,4,6-TBP	1.23		"	2.05		60.0	30-150			

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham

Reported: 12/01/00 14:29

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K21022: Prepared 11/21/0	0 Using E	PA 3550B	}							_
Blank (0K21022-BLK1)										
Pentachlorophenol	ND	0.0500	mg/kg wet	-					-	-
Surrogate: 2,4,6-TBP	1.47		<i>"</i>	1.67		88.0	30-150			_
LCS (0K21022-BS1)										
Pentachlorophenol	0.524	0.0500	mg/kg wet	0.667		78.6	30-150		<u>-</u> .	•
Surrogate: 2,4,6-TBP	1.47		"	1.67		88.0	30-150			
Matrix Spike (0K21022-MS1)					Source: I	30K0448-	01			
Pentachlorophenol	0.774	0.250	mg/kg dry	0.828	ND	93.5	25-200			
Surrogate: 2,4,6-TBP	2.02		"	2.07		97.6	30-150			
Matrix Spike Dup (0K21022-MSD1)					Source: 1	30K0448-	01			
Pentachlorophenol	0.733	0.250	mg/kg dry	0.828	ND	88.5	25-200	5.44	50	
Surrogate: 2,4,6-TBP	1.87		'n	2.07		90.3	30-150			,

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported: 12/01/00 14:29

RPD

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

Project Manager: Bryan Graham

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K16001: P	repared 11/16/00	Using E	PA 3550B								
Blank (0K16001-BLK	l)										
Acenaphthene		ND	0.0100	mg/kg wet					_		
Acenaphthylene		ND	0.0100	11							
Anthracene		ND	0.0100	n							
Benzo (a) anthracene		ND	0.0100	n							
Benzo (a) pyrene		ND	0.0100	n							
Benzo (b) fluoranthene		ND	0.0100	· Ħ							
Benzo (ghi) perylene		ND	0.0100	n							
Benzo (k) fluoranthene		ND	0.0100	n							
Chrysene		ND	0.0100	n							
Dibenz (a,h) anthracene		ND	0.0100	n							
Fluoranthene		ND	0.0100	II							
ene		ND	0.0100	Ħ							
10 (1,2,3-cd) pyrene		ND	0.0100	**							
Naphthalene		ND	0.0100	n							
Phenanthrene		ND	0.0100	n							
Pyrene		ND	0.0100	71							
Surrogate: 2-FBP		1.14		n	1.67		68.3	13-140			
Surrogate: Nitrobenzene-	d5	1.27		"	1.67		76.0	10-136			
Surrogate: p-Terphenyl-d	14	1.61		"	1.67		96.4	30-150			
LCS (0K16001-BS1)											_
Chrysene		0.302	0.0100	mg/kg wet	0.333		90.7	51-124	<u> </u>		
Fluorene		0.225	0.0100	n	0.333		67.6	35-141			
Indeno (1,2,3-cd) pyrene		0.307	0.0100	, "	0.333		92.2	27-148			
Surrogate: 2-FBP		1.05		"	1.67	· - <u></u>	62.9	13-140			
Surrogate: Nitrobenzene-	d5	1.37		"	1.67		82.0	10-136			
Surrogate: p-Terphenyl-d	14	1.66		"	1.67		99.4	30-150			

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reporting

Project Manager: Bryan Graham

Reported: 12/01/00 14:29

RPD

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K16001: Prepared 11/16/00	Using	EPA 3550B								
Matrix Spike (0K16001-MS1)					Source: I					
Chrysene	0.299	0.0100	mg/kg dry	0.345	ND	86.7	15-147			
Fluorene	0.260	0.0100	n	0.345	ND	75.4	21-153			
Indeno (1,2,3-cd) pyrene	0.306	0.010.0	11	0.345	ND	87.5	10-179			
Surrogate: 2-FBP	1.17		n	1.72		68.0	13-140			
Surrogate: Nitrobenzene-d5	1.37		"	1.72		<i>79.7</i>	10-136			
Surrogate: p-Terphenyl-d14	1.61		n	1.72		93.6	30-150			
Matrix Spike Dup (0K16001-MSD1)					Source: 1	B0K0256-	14			
Chrysene	0.284	0.0100	mg/kg dry	0.345	ND	82.3	15-147	5.15	37	
Fluorene	0.257	0.0100	n	0.345	ND	74.5	21-153	1.16	38	
Indeno (1,2,3-cd) pyrene	0.305	0.0100	11	0.345	ND	87.2	10-179	0.327	53	
Surrogate: 2-FBP	1.20		·"	1.72		69.8	13-140			
Surrogate: Nitrobenzene-d5	1.31		"	1.72		76.2	10-136			
Surrogate: p-Terphenyl-d14	1.62		"	1.72		94.2	30-150			
Batch 0K17018: Prepared 11/17/00	Using	EPA 3520C	7/600 Series							
Blank (0K17018-BLK1)		-	-							
Acenaphthene	ND	0.100	ug/l							
Acenaphthylene	ND	0.100	11							
Anthracene	ND	0.100	,							
Benzo (a) anthracene	ND	0.100	,							
Benzo (a) pyrene	ND	0.100	17							
Benzo (b) fluoranthene	ND	0.100	n							
Benzo (ghi) perylene	ND	0.100	r							
Benzo (k) fluoranthene	ND	0.100	n							
Chrysene	ND	0.100	"							
Dibenz (a,h) anthracene	ND	0.100	11							
Fluoranthene	ND	0.100	11							
Fluorene	ND	0.100	11							
Indeno (1,2,3-cd) pyrene	ND	0.100	п							
Naphthalene	ND	0.100	Ħ							
Phenanthrene	ND	0.100	n							
Pyrene	ND	0.100	ir							
Surrogate: 2-FBP	26.3		"	50.0		52.6	12-107			
Surrogate: Nitrobenzene-d5	31.7		,,	50.0		63.4	10-115			

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported: 12/01/00 14:29 Project Manager: Bryan Graham

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

· ———			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K17018:	Prepared 11/17/00	Using E	PA 3520C	/600 Series							
Blank (0K17018-B)	LK1)									<u> </u>	
Surrogate: p-Terpheny	vl-d14	46.2		ug/l	50.0		92.4	28-103			
LCS (0K17018-BS	1)										
Chrysene		7.32	0.100	ug/l	10.0		73.2	50-123			
Fluorene		6.96	0.100	n	10.0		69.6	31-132			
Indeno (1,2,3-cd) pyre	ne	8.02	0.100	n	10.0		80.2	27-146			
Surrogate: 2-FBP		36.0	-	n	50.0	-	72.0	12-107			
Surrogate: Nitrobenze	ne-d5	39.3		"	50.0		78.6	10-115			
Surrogate: p-Terpheny	vl-d]4	50.0		"	50.0		100	28-103			
LCS Dup (0K1701	8-BSD1)										
Chrysene	-	7.86	0.100	ug/l	10.0		78.6	50-123	7.11	27	
rene		7.28	0.100	n	10.0		72.8	31-132	4.49	36	
. :no (1,2,3-cd) pyre	ne	8.10	0.100	н	10.0		81.0	27-146	0.993	31	
Surrogate: 2-FBP		38.5		n	50.0		77.0	12-107	'		
Surrogate: Nitrobenze	ne-d5	42.7		,,	50.0		<i>85.4</i>	10-115			
Surrogate: p-Terphen	vl-d14	<i>54</i> .6		"	50.0		109	28-103			S-03
Batch 0K21020:	Prepared 11/21/00	Using F	PA 3550B	i							
Blank (0K21020-B	LK1)										
Acenaphthene		ND	0.0100	mg/kg wet	<u> </u>						
Acenaphthylene		ND	0.0100	h							
Anthracene		ND	0.0100	n							
Benzo (a) anthracene		ND	0.0100	n							
Benzo (a) pyrene		ND	0.0100	11							
Benzo (b) fluoranthen	e	ND	0.0100	n							
Benzo (ghi) perylene		ND	0.0100	II							
Benzo (k) fluoranthen	e	ND	0.0100	n							
Chrysene		ND	0.0100	n							
Dibenz (a,h) anthraces	ne	ND	0.0100	Ħ							
Fluoranthene		ND	0.0100	11							
Fluorene		ND	0.0100	n							
Indeno (1,2,3-cd) pyro	ene	ND	0.0100	n							
Naphthalene		ND	0.0100	ti.							
Phenanthrene		ND	0.0100	н .							
		• -									

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12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K21020:	Prepared 11/21/00	Using E	PA 3550B								
Blank (0K21020-B)	LK1)		-								
Pyrene		ND	0.0100	mg/kg wet			-				
Surrogate: 2-FBP		1.16		"	1.67		69.5	13-140			
Surrogate: Nitrobenze	ne-d5	1.38		"	1.67		82.6	10-136			
Surrogate: p-Terpheny	nl-d14	1.76		"	1.67		105	30-150			
LCS (0K21020-BS	1)										
Chrysene	1	0.293	0.0100	mg/kg wet	0.333		88.0	51-124			
Fluorene		0.248	0.0100	lr .	0.333		74.5	35-141			
Indeno (1,2,3-cd) pyre	ne	0.303	0.0100	u	0.333		91.0	27-148			
Surrogate: 2-FBP		1.15		"	1.67		68.9	13-140			
Surrogate: Nitrobenze	ne-d5	1.40		"	1.67		83.8	10-136			
Surrogate: p-Terpheny	vl-d14	1.67		"	1.67		100	30-150			
Matrix Spike (0K2	1020-MS1)					Source: 1	B0K0412-	16			`` _ '
Chrysene		1.85	0.100	mg/kg dry	0.410	1.59	63.4	15-147		-	
Fluorene		0.410	0.100	н	0.410	0.106	74.1	21-153			
Indeno (1,2,3-cd) pyre	ne	1.34	0.100	71	0.410	0.991	85.1	10-179			
Surrogate: 2-FBP	·	1.47		"	2.05		71.7	13-140			
Surrogate: Nitrobenze	ne-d5	1.61		"	2.05		<i>78.5</i>	10-136			
Surrogate: p-Terpheny		2.20		"	2.05		107	30-150			
Matrix Spike Dup	(0K21020-MSD1)					Source: 1	B0 K0412 -	-16			
Chrysene		1.45	0.100	mg/kg dry	0.410	1.59	-34.1	15-147	24.2	37	Q-(
Fluorene		0.393	0.100	Ħ	0.410	0.106	70.0	21-153	4.23	38	
Indeno (1,2,3-cd) pyre	ene	1.05	0.100	n	0.410	0.991	14.4	10-179	24.3	53	
Surrogate: 2-FBP		1.29		"	2.05		62.9	13-140			
Surrogate: Nitrobenze	ne-d5	1.39		'n	2.05		67.8	10-136			
Surrogate: p-Terphen	yl-d14	1.97		"	2.05		96.1	30-150			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0K16053:	Prepared 11/16/00	Using .	Dry Weight								
Blank (0K16053-Bl	LK1)										
Dry Weight		99.8	1.00	%			-				
Batch 0K16054:	Prepared 11/16/00	Using	Dry Weight								
Blank (0K16054-B)	LK1)										
Dry Weight		100	1.00	%							

orth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

A-01

Project: West Commodore Way Phase II

Project Number: n/a

The percent recovery for this QC sample is outside established control limits due to excessive headspace.

Project Manager: Bryan Graham

Reported:

12/01/00 14:29

Notes and Definitions

G-01	Results reported for the gas range are primarily due to overlap from diesel range hydrocarbons.
Q-03	The percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
Q-05	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
R-03	The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
S-03	The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
S-05	Due to interference from coeluting organic compounds with the primary surrogate, results of the secondary surrogate have been

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

Sample results reported on a dry weight basis dry

used to control the analysis.

Relative Percent Difference **RPD**

North Creek Analytical - Bothell

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Page 1 % 2

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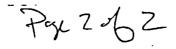
CHAIN OF CUSTODY REPORT

Work Order #:

BOKO412

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EPORT TO: True on!	Longery to Foster	wheeler	27.	Time Dil Coppany N: Scott Stoan 37 West Communch	re Way	10 7	¬₁ ┌──┐ ┌─	Inorganic Analyses 3 2	<1
DDRESS: 12100 NE	145-45treat, Suite 4 9:9011 865 FAX: 47	Z 00	Secret	6 WA 98		STD.	Petroleum H	ydrocarbon Analyses	
Bothell W	4 99011 BAY 42	=497 7676	PO NUMBER:			5		3 2 1 <	」
ROJECT NAME: West Cons	metere way PlazeTT	1	REQUESTI	ED ANALYSES		STI	D	_ Please Specify	
ROJECT NUMBER:	much the year of	1 2 2					OTHER		
AMPLED BY: Brygn 6	Cichan	£ 8 = € 13	100			*Turnaro	ound Requests less to	han standard may incur Rush	Charges.
CLIENT SAMPLE	SAMPLING	1 6 8 5 6 4	00			MATRIX	# OF		NCA WO
IDENTIFICATION	DATE/TIME	1 × 0 × 0	134			(W, S, O)	CONT.	COMMENTS	ID
5B-01-W	1114/00 1650	$\times \times \times$	X						- 01
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SB-01-2	1045	$\times \times \times $	\times						03
3B-61-5	1105	$\times \times \times$			_				104
5B-¢1-18	1140	XXX							-05
53-01-14	1205	XXX					<u> </u>		00-
SB-02-06	1013	M M Y	DO 0	270 ory					-07
SB-02-Z	1330	XXX	X						-08
SB 02-5	1345	XXX	X				<u> </u>		109
156-02-10	1417	XXX	\times						10
153-02-14	1431	$\times \times \times$	\times					<u> </u>	-11
2.5B-\$3- Ø. b	1016	XXX		20 04					-12
3.53-04-0.6	10 25	M MBX		270 ozly			-		-13
4.5B-05-0.6	1631	双双处	8	270 oily			<u> </u>		14
5.5B-04-Z	1508	$\times \times \times$	Δ				<u> </u>		F15 E:11/14/0
ELINQUISHED BY: 'RINT NAME: JEFF SPECIAL	FIRM: F	us TEIL WHEELEIL	DATE: //.14.00 _ TIME: / 500	RECEIVED BY: 75 PRINT NAME: COLUMN	JONES	FIRM:	NCA	DAT TIM	
LELINQUISHED BY:		<u>-</u>	DATE:	RECEIVED BY:	_			DAT	
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ADDITIONAL REMARKS:								TEMP: 4.8	
OC REV 3/99						_		TO PAC	GE OF





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(425) 420-9200 (509) 924-9200 (503) 906-9200

FAX 420-9210 FAX 924-9290

FAX 906-9210 FAX 382-7588

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 (541) 383-9310 Work Order # 20K01/12 CHAIN OF CUSTODY DEPORT

		CIIA	1110	<u> </u>		10	$D_{\mathbf{I}}$	IXI	<u> </u>	1/1			***	<u>,, , , , , , , , , , , , , , , , , , ,</u>	Jiu	$c_1 \pi_{\bullet} \underline{r}$	<u>>U/\</u>	$\mathcal{U}\mathcal{Y}$	12_	
CLIENT:	_					INVO	ICE TO) :								TURN		=	ST in Busines	s Days*
REPORT TO: ADDRESS:	500	= 7)<	<u>-</u>	~	_										10 7 STD.	5	4	anic Analyses 2 rbon Analyses	1 <1
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PROJECT NUMBER: SAMPLED BY:			7.EX	1010	3178 x	lad	•									*Turnari	OTHI	ER	dard may incur Rus	——h Charges.
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.53-64-5	14/14/20	1526	X	X	X	×										•				-16
.5B-04-5 .5B-04-10	14/4/20	1558	X	X	X	X														-17
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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/21/00 15:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01MW07	B0L0047-01	Water	12/01/00 07:50	12/01/00 15:37
01MW08	B0L0047-02	Water	12/01/00 08:40	12/01/00 15:37
01MW09	B0L0047-03	Water	12/01/00 09:10	12/01/00 15:37
01MW11	B0L0047-04	Water	12/01/00 09:30	12/01/00 15:37
02MW07	B0L0047-05	Water	12/01/00 07:20	12/01/00 15:37
TRIP BLANK	B0L0047-06	Water	12/01/00 07:15	12/01/00 15:37
SB03B	B0L0047-07	Soil	12/01/00 13:42	12/01/00 15:37
SB-03A	B0L0047-08	Soil	12/01/00 14:10	12/01/00 15:37
SB-05B	B0L0047-09	Soil	12/01/00 11:45	12/01/00 15:37
SB-05C	B0L0047-10	Soil	12/01/00 12:10	12/01/00 15:37
SB-05D	B0L0047-11	Soil	12/01/00 12:40	12/01/00 15:37



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW07 (B0L0047-01) Water	Sampled: 12/01/00	07:50 Rece	ived: 12/01	/00 15:37					
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	0L07039	12/07/00	12/08/00	NWTPH-Gx/8021B	
Benzene	ND	1.08	н	n	Ħ	n	P	71	R-03
Toluene	ND	0.500	H	**	. 11	17		n	
Ethylbenzene	ND	0.500	71	**	*	n	n	n	
Xylenes (total)	ND	1.00	n	11		rı .	п	n	
Surrogate: 4-BFB (FID)	105 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	112 %	50-150			"	"	"	"	
01MW08 (B0L0047-02) Water	Sampled: 12/01/00	08:40 Rece	ived: 12/01	/00 15:37	_				
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	0L07039	12/07/00	12/08/00	NWTPH-Gx/8021B	
Benzene	ND	0.500	n	n	n	111	n	n	
Toluene	ND	0.500	n	**	11	n	"	ti	
Ethylbenzene	ND	0.500	Ħ	'n	**	n	*1	n	<i>-</i> -
Xylenes (total)	ND	1.00	**	,,	**	n	71	11	$\int \int \int \int dt dt$
Surrogate: 4-BFB (FID)	100 %	50-150			"		"	"	
Surrogate: 4-BFB (PID)	109 %	50-150			"	"	"	n	
01MW09 (B0L0047-03) Water	Sampled: 12/01/00	09:10 Rece	ived: 12/01	1/00 15:37					
Gasoline Range Hydrocarbons	2210	250	ug/l	5	0L07039	12/07/00	12/08/00	NWTPH-Gx/8021B	
Benzene	402	2.50	Ħ	n	u	19	II .	Ħ	
Toluene	143	2.50	Ħ	11	n	n	•	ti	
Ethylbenzene	65.2	2.50	n	n	n	17	11	ti	
Xylenes (total)	333	5.00	n	"	"	н	**	n	
Surrogate: 4-BFB (FID)	102 %	50-150			"	n	"	"	
Surrogate: 4-BFB (PID)	107 %	50-150			"	"	**	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/21/00 15:55

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

1		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW11 (B0L0047-04) Water	Sampled: 12/01/00	09:30 Rece	eived: 12/01/	00 15:37					
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	0L07039	12/07/00	12/08/00	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	n	**	H	н	11	
Toluene	ND	0.500	n	n	**	11	n	11	
Ethylbenzene	ND	0.500	H	u	17	**	17	"	
Xylenes (total)	ND	1.00	n	**	**	**	11	l1	
Surrogate: 4-BFB (FID)	99.8 %	50-150			"	"	"	. "	
Surrogate: 4-BFB (PID)	110 %	50-150			"	"	"	"	
02MW07 (B0L0047-05) Water	Sampled: 12/01/00	07:20 Rece	eived: 12/0 <u>1</u> /	/00 15:37					
Gasoline Range Hydrocarbons	356	50.0	ug/l	1	0L07039	12/07/00	12/08/00	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	n	b	**	p	н	
Toluene	ND	0.820	11	11	II .	Ħ	n	ii	R-03
Ethylbenzene	ND	3.55	n	"	н	11	11	Ħ	R-03
enes (total)	ND	9.83	n	н	11	I)			R-03
ogate: 4-BFB (FID)	84.2 %	50-150			"	. "	"	"	
Surrogate: 4-BFB (PID)	112 %	50-150			"	"	"	"	
SB03B (B0L0047-07) Soil San	npled: 12/01/00 13:42	Received	: 12/01/00 15	5:37					
Gasoline Range Hydrocarbons	1670	100	mg/kg dry	20	0L04019	12/04/00	12/06/00	NWTPH-Gx/8021B	
Benzene	ND	1.00	n	n	**	17	**	**	
Toluene	ND	3.20	*1	n	n	"	n	"	R-03
Ethylbenzene	ND	. 7.00	n	b	tr	"	19	n	R-03
Xylenes (total)	ND	16.2	71	tı	ir .	**			R-03
Surrogate: 4-BFB (FID)	%	50-150			"	"	"	"	S-0.
Surrogate: 4-BFB (PID)	%	50-150			" .	"	"	n	S-0

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Resuit	Lillit			Daten		111111111111111111111111111111111111111		
SB-03A (B0L0047-08) Soil	Sampled: 12/01/00 14:10	Received	1: 12/01/00 1	5:37			·		
Gasoline Range Hydrocarbon	s ND	5.00	mg/kg dry	1	0L04019	12/04/00	12/06/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	u	**	**	U	n	11	
Toluene	ND	0.0500	11	11	11	h	**	n	
Ethylbenzene	ND	0.0500	**	n	11	n	**	11	
Xylenes (total)	ND	0.100	n	н	**	n	11	, <u> </u>	
Surrogate: 4-BFB (FID)	87.2 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	95.5 %	50-150			"	"	" .	"	
SB-05B (B0L0047-09) Soil	Sampled: 12/01/00 11:45	Received	l: 12/01/00 1	5:37					
Gasoline Range Hydrocarbon	s ND	5.00	mg/kg dry]	0L04019	12/04/00	12/06/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	Ħ	n	H	н	n	17	
Toluene	ND	0.0500	n	**	**	*1	tr	Ħ	
Ethylbenzene	ND	0.0500	11	n	11	17	11	76	
Xylenes (total)	ND	0.100	11	**	ti	"	11	n	
Surrogate: 4-BFB (FID)	92.3 %	50-150			"	"	"	"	-
Surrogate: 4-BFB (PID)	103 %	50-150			**	"	"	"	
SB-05C (B0L0047-10) Soil	Sampled: 12/01/00 12:10) Received	1:`12/01/00 1	15:37					_
Gasoline Range Hydrocarbon	ns ND	5.00	mg/kg dry	1	0L04019	12/04/00	12/06/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	17	n	n)T	11	
Toluene	ND	0.0500	n	11	H	71	Ħ	n	
Ethylbenzene	ND	0.0500	**	**	17	n	†1	н	
Xylenes (total)	ND	0.100	17	11	n	11		**	
Surrogate: 4-BFB (FID)	90.6 %	50-150			"	"	"	n	
Surrogate: 4-BFB (PID)	103 %	50-150			"	"	•	"	

North Creek Analytical - Bothell

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Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Bothell WA, 98011

12100 NE 195th Street

Project Manager: Bryan Graham

12/21/00 15:55

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-05D (B0L0047-11) Soil	Sampled: 12/01/00 12:40	Received	: 12/01/00 1	5:37					
Gasoline Range Hydrocarbons	s ND	5.00	mg/kg dry	1	0L04019	12/04/00	12/06/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	**	11	"	"	Ħ	h	
Toluene	ND	0.0500	и	· n	17	n	n	n	
Ethylbenzene	ND	0.0500	u	Ħ	11	Ħ	**	n	
Xylenes (total)	ND	0.100	11		"	11		н	
Surrogate: 4-BFB (FID)	75.3 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	93.1 %	50-150			"	"	"	,,	



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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reported:

12/21/00 15:55 Project Manager: Bryan Graham

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW07 (B0L0047-01) Water	Sampled: 12/01/00	07:50 Recei	ived: 12/01	/00 15:37			_		
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	0L06005	12/06/00	12/07/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	n	**	н	н	13	n	
Surrogate: 2-FBP	. 65.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	69.4 %	50-150			"	"	"	"	
01MW08 (B0L0047-02) Water	Sampled: 12/01/00	08:40 Recei	ived: 12/01	/00 15:37					
Diesel Range Hydrocarbons	0.404	0.250	mg/l	1	0L06005	12/06/00	12/07/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	11	p	n	н	n	"	
Surrogate: 2-FBP	78.9 %	50-150	•		"	"	"	"	
Surrogate: Octacosane	83.2 %	50-150			"	22	"	,,	
01MW09 (B0L0047-03) Water	Sampled: 12/01/00	09:10 Recei	ived: 12/01	/00 15:37					
Diesel Range Hydrocarbons	1.07	0.250	mg/l	1	0L06005	12/06/00	12/07/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	n	**	n	tı	**	n	-
Surrogate: 2-FBP	80.7 %	50-150		-	"	"	"	"	
Surrogate: Octacosane	81.3 %	50-150			"	**	n	"	
01MW11 (B0L0047-04) Water	Sampled: 12/01/00	09:30 Recei	ived: 12/01	/00 15:37					
Diesel Range Hydrocarbons	0.504	0.250	mg/l	1	0L06005	12/06/00	12/07/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	n	11	**	n	Ħ	D	
Surrogate: 2-FBP	78.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	81.5 %	50-150			"	"	"	•	
02MW07 (B0L0047-05) Water	Sampled: 12/01/00	07:20 Rece	ived: 12/01	/00 15:37					
Diesel Range Hydrocarbons	0.299	0.250	mg/l	I	0L06005	12/06/00	12/07/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	**	**	H	н	"	n	
Surrogate: 2-FBP	73.5 %	50-150				"	"	"	
Surrogate: Octacosane	74.5 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/21/00 15:55

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting		_					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB03B (B0L0047-07) Soil Sa	mpled: 12/01/00 13:42	Received:	12/01/00 15	3:37					
Diesel Range Hydrocarbons	14700	410	mg/kg dry	41	0L05041	12/05/00	12/07/00	NWTPH-Dx	
Lube Oil Range Hydrocarbon	s 6350	1030	n	"	17	11	**		
Surrogate: 2-FBP	%	50-150			"	"	"	**	S-0.
Surrogate: Octacosane	%	50-150			"	"	"	"	S-0.
SB-03A (B0L0047-08) Soil S	ampled: 12/01/00 14:10	Received	l: 12/ <u>01/00</u> 1	5:37					· .
Diesel Range Hydrocarbons	2010	410	mg/kg dry	41	0L05041	12/05/00	12/07/00	NWTPH-Dx	
Lube Oil Range Hydrocarbon	s 4780	1030		ti	"	*	lt	II	
Surrogate: 2-FBP	%	50-150	•		"	"	"	"	S-0.
Surrogate: Octacosane	78.5 %	50-150			"	n	"	"	
SB-05B (B0L0047-09) Soil S	ampled: 12/01/00 11:45	Received	1: 12/01/00 1	5:37					_
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0L05041	12/05/00	12/07/00	NWTPH-Dx	
" e Oil Range Hydrocarbons	ND	25.0	h		n	n			
ogate: 2-FBP	80.3 %	50-150			"	,,	"	"	
Surrogate: Octacosane	90.2 %	50-150			,,	"	"	,,	•
SB-05C (B0L0047-10) Soil S	Sampled: 12/01/00 12:10	0 Received	i: 1 <u>2/01/00</u> 1	5:37		_			
Diesel Range Hydrocarbons	11.1	10.0	mg/kg dry	1	0L05041	12/05/00	12/07/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	Ħ	U	"	· ·	17	"	
Surrogate: 2-FBP	72.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	80.8 %	50-150			"	"	"	"	
SB-05D (B0L0047-11) Soil S	Sampled: 12/01/00 12:4	0 Receive	d: 12/01/0 <u>0</u> 1	15:37					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0L05041	12/05/00	12/07/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	H	b	"	n 	н	<u>"</u>	
Surrogate: 2-FBP	80.9 %	50-150			"	"	"	"	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Portland

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW07 (B0L0047-01RE1) Wate	r Sampled: 12/0	1/00 07:50	Received: 1	12/01/00 15:	37				A-01
Silver	ND	0.00100	mg/l	1	0L18028	12/18/00	12/19/00	EPA 6020	
Arsenic	0.00117	0.00100	11	n	11	n	н	57	1
Beryllium	ND	0.00100	77	,	h	n	71	н	
Cadmium	ND	0.00100	"	n	n	"	n	**	,
Chromium	ND	0.00100	n	n	ħ	11	n	IP.	, -
Copper	0.00325	0.00100	n	n	lt .	17	12/19/00	n	
Mercury	ND	0.00100	n	Ħ	0L18029	12/18/00	12/19/00	EPA 7470A	
Nickel	0.00487	0.00100	¥I	17	0L18028	12/18/00	12/19/00	EPA 6020	
Lead	ND	0.00100	**	n	Ħ	**	н	IF	Ĭ.
Antimony	ND	0.00100	Ħ	n	*1	n	н	n	}
Selenium	ND	0.00100	11	n	H	n	**	**	'-
Thallium	ND	0.00100	n	**	'n	u	н	u	_
Zinc	ND	0.0100	tt	n	0L13033	12/13/00	12/15/00	II.	, ,
01MW07 (B0L0047-01RE2) Wate	er Sampled: 12/0	1/00 07:50	Received:	12/01/00 15:	:37				
Zinc	0.0300	0.0100	mg/l	1	0L18028	12/18/00	12/19/00	EPA 6020	
01MW08 (B0L0047-02) Water S	Sampled: 12/01/00	08:40 Rec	eived: 12/0	1/00 15:37					A-011
Lead	ND	0.00100	mg/l	1	0L12014	12/12/00	12/13/00	EPA 6020	
01MW09 (B0L0047-03) Water S	Sampled: 12/01/00	09:10 Rec	eived: 12/0	1/00 15:37					A-011
Lead	ND	0.00100	mg/l	1	0L12014	12/12/00	12/13/00	EPA 6020	
01MW11 (B0L0047-04) Water 5	Sampled: 12/01/00	09:30 Rec	eived: 12/0	1/00 15:37			_		A-01b
Lead	ND	0.00100	mg/l	1	0L12014	12/12/00	12/14/00	EPA 6020	
									1

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase Il

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02MW07 (B0L0047-05) Wa	ter Sampled: 12/01/00 0	7:20 Rece	ived: 12/01	/00 15:37					A-01b
Lead	ND	0.00100	mg/l	1	0L12014	12/12/00	12/14/00	EPA 6020	
SB03B (B0L0047-07) Soil	Sampled: 12/01/00 13:42	Received:	12/01/00 1	5:37					
Lead	3.36	0.347	mg/kg dry	1	0L07024	12/07/00	12/09/00	EPA 6020	
SB-03A (B0L0047-08) Soil	Sampled: 12/01/00 14:10	Received	l: 12/01/00 1	15:37					
Lead	9.23	0.347	mg/kg dry	1	0L07024	12/07/00	12/09/00	EPA 6020	
SB-05B (B0L0047-09) Soil	Sampled: 12/01/00 11:45	Received	i: 12/01/00 1	15:37					
Lead	5.87	0.314	mg/kg dry	1	0L07024	12/07/00	12/09/00	EPA 6020	
SB-05C (B0L0047-10) Soil	Sampled: 12/01/00 12:10	Received	I: 12/01/00	15:37			<u>. </u>		
Lead	5.59	0.325	mg/kg dry	1	0L12045	12/12/00	12/14/00	EPA 6020	
SB-05D (B0L0047-11) Soil	Sampled: 12/01/00 12:40	Received	1: 12/01/00	15:37					
,d	2.66	0.345	mg/kg dry	1	0L12045	12/12/00	12/14/00	EPA 6020	

rth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

		Reporting		-				-	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW07 (B0L0047-01) Water	Sampled: 12/01/00	07:50 Rece	ived: 12/01	1/00 15:37					
Acetone	ND	10.0	ug/l	1	0L15004	12/14/00	12/14/00	EPA 8260B	
Benzene	ND	1.00	n	h	n	н	b	b	
Bromobenzene	ND	1.00	n	n	n	н	h	n	
Bromochloromethane	ND	1.00	n	n	**	**	H	н	
Bromodichloromethane	ND	1.00	u	**	**	11	**	11	
Bromoform	ND	1.00	n	n	H	n	n	n	
Bromomethane	ND	1.00	n	n	n	n	н	17	
2-Butanone	ND	10.0	Ħ	n	н	n	n	n	
n-Butylbenzene	ND	1.00	n	Ħ	n	**	n	n	
sec-Butylbenzene	ND	1.00	19	n	**	**	ħ	п	
tert-Butylbenzene	ND	1.00	*	n	"	**	r	п	
Carbon disulfide	. ND	1.00	tr	n	h	H	n	n	
Carbon tetrachloride	ND	1.00	11	p	11	U	"	7	
Chlorobenzene	ND	1.00	n	n	11	**		п	(
Chloroethane	ND	1.00	u	n	H	**	н	71	
Chloroform	ND	1.00	n	tr	n	**	fi	п	
Chloromethane	ND	5.00	17	U	tı	11	•	n	
2-Chlorotoluene	ND	1.00	n	μ.	n	11	n	n	
4-Chlorotoluene	ND	1.00	н	11	"	n		·	
Dibromochloromethane	ND	1.00	n	и	n	**	**	Ħ	
1,2-Dibromo-3-chloropropane	ND	5.00	n	n	n	"	**	п	
1,2-Dibromoethane	ND	1.00	**	n		11	11	н	
Dibromomethane	ND	1.00	**	"	11	n		*	
1,2-Dichlorobenzene	ND	1.00	H	**	**	н	н	p	
1,3-Dichlorobenzene	ND	1.00	"	**	*	11	**	h	
1,4-Dichlorobenzene	ND	1.00	17	11	n	**	*1	n	
Dichlorodifluoromethane	ND	1.00	l7	h	n	n	н	Ħ	
1,1-Dichloroethane	ND	1.00	U	n	n	p	11	ħ	
1,2-Dichloroethane	ND	1.00	υ	ı	н	n	•	tr	
1,1-Dichloroethene	ND	1.00	n	n	н	н	**	n	
cis-1,2-Dichloroethene	ND	1.00	"	ıı	**	n	н	n	
trans-1,2-Dichloroethene	ND	1.00	9	H	n	II .	**	Ħ	
1,2-Dichloropropane	ND	1.00	11	n	11	н	Ħ	u	
1,3-Dichloropropane	ND	1.00	"	u	n	Ħ	n	n	
2,2-Dichloropropane	ND	1.00	n	71	n	,		п	
1,1-Dichloropropene	ND	1.00	11	11	10	11	II .	n	
cis-1,3-Dichloropropene	ND	1.00	17	n	n	11	n	n	
trans-1,3-Dichloropropene	ND	1.00	"	11		11	H	Ħ	
rans-1,3-Dichioropropene	עא	1.00	**						

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham

12/21/00 15:55

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW07 (B0L0047-01) Water	Sampled: 12/01/00	07:50 Recei	ved: 12/01	/00 15:37					
Ethylbenzene	ND	1.00	ug/l	1	0L15004	12/14/00	12/14/00	EPA 8260B	
Hexachlorobutadiene	ND	1.00	17	11	11	n	n	n	
2-Hexanone	ND	10.0	h	b	n	Ħ	Ħ	11	
lsopropylbenzene	ND	1.00	11	11	n	91	17	9 1	
p-lsopropyltoluene	ND	1.00	Ħ	π	11	U	**	11	
Methylene chloride	ND	5.00	11	P	11	**	n	*1	
4-Methyl-2-pentanone	ND	10.0	11	11	Ħ	H	n	н	
Naphthalene	ND	1.00	n	н	*	"	11	n	
n-Propylbenzene	ND	1.00	H	n	n	Ħ	н	11	
Styrene	ND	1.00	н	n	11	n	**	"	
1,1,1,2-Tetrachloroethane	ND	1.00	n	II	н	**	11	"	
1,1,2,2-Tetrachloroethane	ND	1.00	**	11	n	11	11	Tr.	
Tetrachloroethene	ND	1.00	h	"	**	n	11	u	
luene	ND	1.00	n	h	11	n	n	11	
,3-Trichlorobenzene	ND	1.00	11	H	u	11	11	n	
2.4-Trichlorobenzene	ND	1.00	н	n	**	"	11	**	
1,1,1-Trichloroethane	ND	1.00	11	u	11	17	n	"	
1,1,2-Trichloroethane	ND	1.00	II	,	11	"	**	n	
Trichloroethene	ND	1.00	n	н	н	Ħ	H	н	
Trichlorofluoromethane	ND	1.00	".	*11	D	n	"	tt	
1,2,3-Trichloropropane	ND	1.00	n	п	н	**	**	**	
1,2,4-Trimethylbenzene	ND	1.00	n		n	n	,,	D	
1,3,5-Trimethylbenzene	ND	1.00	n	Ħ	n	**	11	**	
Vinyl chloride	ND	1.00	н	U	n	n	n	n	
m,p-Xylene	ND	2.00	n	н	**	•	11	n	
o-Xylene	ND	1.00	11	D	н		n	n	
Surrogate: 1,2-DCA-d4	104 %	60-130	_		"	"	"	,,	
Surrogate: Toluene-d8	96.3 %	80-120			"	"	"	"	
Surrogate: 4-BFB	103 %	80-120			,,	"	"	u	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

	F	Reporting	·		<u> </u>	·		<u> </u>	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TRIP BLANK (B0L0047-06) Water	Sampled: 12/01	/00 07:15	Received:	12/01/00 15	5:37				
Acetone	ND	10.0	ug/l	1	0L15004	12/14/00	12/14/00	EPA 8260B	
Benzene	ND	1.00	ห	h	n	n	H	17	
Bromobenzene	ND	1.00	11	н	n	11	1*	•	
Bromochloromethane	ND	1.00	н	n	Ħ	h ·	11	Ħ	
Bromodichloromethane	ND	1.00	**	**	**	n	tr	,	
Bromoform	ND	1.00	n	Ħ	n	17	n	n	
Bromomethane	ND	1.00	n	17	"	**	н	**	
2-Butanone	ND	10.0	19	**	n	n	n	n	
n-Butylbenzene	ND	1.00	17	n	H	ħ		*	
sec-Butylbenzene	ND	1.00	19	tr	11	**	n	Ħ	
tert-Butylbenzene	ND	1.00	("	11	n	**	n	**	
Carbon disulfide	ND	1.00	n	"	u	**	tt	я	
Carbon tetrachloride	ND	1.00	"	17	n	**	be .	H	
Chlorobenzene	ND	1.00	17	11	n	17	•	n	, , , , , , , , , , , , , , , , , , ,
Chloroethane	ND	1.00	17	**	n	11	71	n	\ \ \
Chloroform	ND	1.00	17	17	"	**	tt	n	
Chloromethane	ND	5.00	n	n	9	**	71	Ħ	
2-Chlorotoluene	ND	1.00	n	17	h	11	**	n	
4-Chlorotoluene	ND	1.00	И	n	n	**	n	19	
Dibromochloromethane	ND	1.00	11	n	tt	lT .	ħ	n	
1,2-Dibromo-3-chloropropane	ND	5.00	11	li .	b	11	17	n	
1,2-Dibromoethane	ND	1.00	U	n	н	n	**	n	
Dibromomethane	.ND	1.00	н	n	11	n	F	н	
1,2-Dichlorobenzene	· ND	1.00	n	n	te	n	19	n	
1,3-Dichlorobenzene	ND	1.00	n	*1	*1	n	n	n	
1,4-Dichlorobenzene	ND	1.00	n	Ħ	н	Ħ	н	".	
Dichlorodifluoromethane	ND	1.00	91	n	**	n	. "	Ħ	
1,1-Dichloroethane	ND	1.00	11	11	"	tt	н	11	
1,2-Dichloroethane	ND	1.00	Ħ	ti	**	Ħ	ti	Ħ	
1,1-Dichloroethene	ND	1.00	n	n	11	n	n	n	
cis-1,2-Dichloroethene	ND	1.00	11	п	**	п		n	
trans-1,2-Dichloroethene	ND	1.00	11	11	n	n	h	n	
1,2-Dichloropropane	ND	1.00	17	11	n	n	n	n	
1,3-Dichloropropane	ND	1.00	n	n	н	n	lt.	н	
2,2-Dichloropropane	ND	1.00	11	h	**	U	ıı .	n	
1,1-Dichloropropene	ND	1.00	"	н .	n	n	n	n	
cis-1,3-Dichloropropene	ND	1.00	"		**	"	n	n	
trans-1,3-Dichloropropene	ND	1.00		,		11	19	n	
umis 1,5 Diemoropropene	110	1.00							

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/21/00 15:55

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

<u>-</u>		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TRIP BLANK (B0L0047-06) Water	Sampled: 12/0	1/00 07:15	Received:	12/01/00 15	5:37				
Ethylbenzene	ND	1.00	ug/l	i	0L15004	12/14/00	12/14/00	EPA 8260B	
Hexachlorobutadiene	ND	1.00	n	"	10	17	U	н	
2-Hexanone	ND	10.0	"	"	11	н	н	n	
Isopropylbenzene	ND	1.00	"	H	н	н	n	н	
p-Isopropyltoluene	ND	1.00	**	"	**	н	н	11	
Methylene chloride	ND	. 5.00	"	tr	n	••	"	n	
4-Methyl-2-pentanone	ND	10.0	n	n	н	**	**	11	
Naphthalene	ND	1.00	11	11	n	tr	11	n	
n-Propylbenzene	ND	1.00	"	11	b	"	II .	Ħ	
Styrene	ND	1.00	H	n	11	n	11	tr	
1,1,1,2-Tetrachloroethane	ND	1.00	u	11	н	n	n	Ħ	
1,1,2,2-Tetrachloroethane	ND	1.00	#1	*1	n	n	11	n	
Tetrachloroethene	ND	1.00	n	n	11	n	li .	H	
* uene	ND	1.00	n	n	"	11	11	n	
3-Trichlorobenzene	ND	1.00	**	n	"	11	**	U U	
1,2,4-Trichlorobenzene	ND	1.00	n	11	I)	n	n	n	
1,1,1-Trichloroethane	ND	1.00	n	н	U	17	n	"	
1,1,2-Trichloroethane	ND	1.00	**	n	ħ	n		и	
Trichloroethene	ND	1.00	11	Ħ	n	**	11	II .	
Trichlorofluoromethane	ND	1.00	n	11	n	11	н	H	
1,2,3-Trichloropropane	ND	1.00		n	"	n	n	н	
1,2,4-Trimethylbenzene	ND	1.00	**	n	"	n	**	iT	
1,3,5-Trimethylbenzene	ND	1.00	17	**	11	n	'n	n	
Vinyl chloride	ND	1.00	U	p	**	"	D	и	
m,p-Xylene	ND	2.00	Ħ	n	*	n	11	. н	
o-Xylene	ND	1.00	н	,	n	77	n	n	
Surrogate: 1,2-DCA-d4	102 %	60-130			"	"	"	,,	
Surrogate: Toluene-d8	96.0 %	80-120			"	"	n	"	
Surrogate: 4-BFB	102 %	80-120			"	"	n	"	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW07 (B0L0047-01) Water	Sampled: 12/01/00	07:50 Recei	ived: 12/01	/00 15:37	-				
Acenaphthene	ND	10.0	ug/l	1	0L06018	12/06/00	12/09/00	EPA 8270C	
Acenaphthylene	ND	10.0	и .	n	11	**	by	н	
Aniline	ND	10.0	n	n	**	Ħ	н	н	
Anthracene	ND	10.0	n	n	Ħ	н	н	n	,
Benzoic Acid	ND	20.0	U	'0	н	11	H	**	
Benzo (a) anthracene	ND	10.0	11	**	H	b	17	**	ļ
Benzo (b) fluoranthene	ND	10.0	**	ŧ1	n	n	**	11	ļ
Benzo (k) fluoranthene	ND	10.0	11	11	n,	ii .	n	Ħ	
Benzo (ghi) perylene	ND	10.0	n	11	Ħ	**	H	n	
Benzo (a) pyrene	ND	10.0	w	n	n	**	11	ti	3
Benzyl alcohol	ND	10.0	н	n	n	n	**	п	
Bis(2-chloroethoxy)methane	ND	10.0	11	n	Ħ	11	h	b	
Bis(2-chloroethyl)ether	ND	10.0	17	Ħ	11	n		н	!
Bis(2-chloroisopropyl)ether	ND	10.0	17	11	**	19	n	н	, 4
Bis(2-ethylhexyl)phthalate	ND	50.0	17	n	n	n	**	ti	·
4-Bromophenyl phenyl ether	ND	10.0	tr	*1	"		11	**	Í
Butyl benzyl phthalate	ND	10.0	**	n	Ħ	**	n	**	?
Carbazole	ND	10.0	II .	ti	Ħ	tt	"	n	
4-Chloroaniline	ND	10.0	**	*1	ti	*1	19	n	
2-Chloronaphthalene	ND	10.0	*1	n	*1	**	н	n	}
4-Chloro-3-methylphenol	ND	10.0	и)1	"	10	n	n	(
2-Chlorophenol	ND	10.0	н	n	H	17	н	n	
4-Chlorophenyl phenyl ether	ND	10.0	"	11		17		"	1
Chrysene	ND	10.0	"	n	Ħ	n	n	n	1
Dibenz (a,h) anthracene	ND	10.0	n	h	н	н	п	н	
Dibenzofuran	ND	10.0	N	Ħ	n	n	н	n	
Di-n-butyl phthalate	ND	10.0	II	11	u	ħ	17	"	
1,3-Dichlorobenzene	ND	10.0	n	Ħ	n	h	11	11	i,
1,4-Dichlorobenzene	ND	10.0	19	n	n	n	n	n	
1,2-Dichlorobenzene	ND	10.0	n	н	n	H	11	n	1
3,3'-Dichlorobenzidine	ND	10.0	ti	11	*1		11	11	1
2,4-Dichlorophenol	ND	10.0	71	**	71	п	II.	ħ	
Diethyl phthalate	ND	10.0	17	*1	n	D	n	н	
2,4-Dimethylphenol	ND	10.0	11	n	n	n	11	II .	,
Dimethyl phthalate	ND	10.0	11	**	n	**	**	n	
4,6-Dinitro-2-methylphenol	ND	10.0	71	H	п	n	11	PI	
2,4-Dinitrophenol	ND	20.0	"	11	,,	**	**	n	i
	ND ND	10.0	n	11	n	H	*	n	1
2,4-Dinitrotoluene	ND	10.0	"	n	"	r	17	71	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reporting

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/21/00 15:55

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW07 (B0L0047-01) Water	Sampled: 12/01/00 (7:50 Recei	ved: 12/01	1/00 15:37					
2,6-Dinitrotoluene	ND	10.0	ug/l	1	0L06018	12/06/00	12/09/00	EPA 8270C	
Di-n-octyl phthalate	ND	10.0	H	n	n	11	U	n	
Fluoranthene	ND	10.0	11	н		lt.	*11	U	
Fluorene	ND	10.0	"	IT.	n	Ħ	ı	11	
Hexachlorobenzene	ND	10.0	n	**	11	**	n)1	
Hexachlorobutadiene	ND	10.0	11	**	11	n	n	17	
Hexachlorocyclopentadiene	ND	10.0	10	н	71	71	n	#1	
Hexachloroethane	ND	10.0	11	"	17	n	tı	н	
Indeno (1,2,3-cd) pyrene	ND	10.0	**	n	н	n	11	D	
lsophorone	ND	10.0	n	n	h	n	l+	11	
2-Methylnaphthalene	ND	10.0	11	ħ	**	**	n	n	
2-Methylphenol	ND	10.0	77	1)	i7	n	79	D	
3 & 4-Methylphenol	ND	10.0	11	н	D	"	н	"	
ithalene	ND	10.0	**	Ħ	**	,	n	n	
troaniline	ND	10.0	**	11		n	**	n	
3-Nitroaniline	ND	10.0	n	n	H	Ħ	tt	n	
4-Nitroaniline	ND	10.0	"	n	11	n	n	H	
Nitrobenzene	ND	10.0	**	**	n		**	n	
2-Nitrophenol	ND	10.0		н	l)	n	н	11	
4-Nitrophenol	ND	10.0	н	n	11	h		11	
N-Nitrosodiphenylamine	ND	10.0	п	н	,,	77	11	н	
N-Nitrosodi-n-propylamine	ND	10.0	H	Ħ	*1		"	Ħ	
Pentachlorophenol	ND	10.0	н	ti	н	n	"	**	
Phenanthrene	ND	10.0	ti	n	"	11	n	n	
Phenol	ND	10.0	11	n	71	n	n	n	
Pyrene	ND	10.0	17	71	н	n	**	Ħ	
1,2,4-Trichlorobenzene	ND	10.0	ıı.	ıı	17	11	n	H	
2,4,5-Trichlorophenol	ND	10.0	18	ii.	**	P	n		
2,4,6-Trichlorophenol	ND	10.0	*	*1	и	n	11	**	
Surrogate: 2-FP	26.5 %	10-108			"	H	"	"	
Surrogate: Phenol-d6	35.8 %	10-126			"	"	"	,,	
Surrogate: 2,4,6-TBP	21.4 %	15-145			"	"	n	"	
Surrogate: Nitrobenzene-d5	91.5 %	31-116			"	"	"	"	
Surrogate: 2-FBP	99.6 %	28-120			"	n	"	"	
Surrogate: p-Terphenyl-d14	119 %	50-135			**	"	"	"	
Surrogate. p-1erpnenyi-a14	11770								

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/21/00 15:55

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB03B (B0L0047-07) Soil	Sampled: 12/01/00 13:42	Received	: 12/01/00 15	5:37					
Pentachlorophenol	ND	0.500	mg/kg dry	10	0L04010	12/04/00	12/05/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	68.5 %	30-150			"	"	"	н	_
SB-03A (B0L0047-08) Soil	Sampled: 12/01/00 14:10	Received	1: 12/01/00 1	5:37		_			
Pentachlorophenol	ND	1.25	mg/kg dry	10	0L04010	12/04/00	12/06/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	61.0 %	30-150			"	11	"	"	
SB-05B (B0L0047-09) Soil	Sampled: 12/01/00 11:45	Received	l: 12/01/00 1	5:37					
Pentachlorophenol	0.0761	0.0500	mg/kg dry	1	0L04010	12/04/00	12/05/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	74.9 %	30-150			"	"	"	n	
SB-05C (B0L0047-10) Soil	Sampled: 12/01/00 12:10	Received	1: 12/01/00 1	5:37		_			
Pentachlorophenol	0.264	0.100	mg/kg dry	2 .	0L04010	12/04/00	12/05/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	76.8 %	30-150			"	"	"	"	,
SB-05D (B0L0047-11) Soil	Sampled: 12/01/00 12:40	Received	3: 12/01/00 1	5:37			_		
Pentachlorophenol	0.0981	0.0500	mg/kg dry	1	0L04010	12/04/00	12/05/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	96.0 %	30-150			"	"	"	"	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/21/00 15:55

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Project: West Commodore Way Phase II

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB03B (B0L0047-07) Soil	Sampled: 12/01/00 13:42	Received:	12/01/00 15	:37					
Acenaphthene	3,20	0.100	mg/kg dry	10	0L04010	12/04/00	12/05/00	GCMS-SIM	
Acenaphthylene	ND	0.100	11	ir	ıı	0	u	"	
Anthracene	2.91	0.100	ı	tı	**	н	"	11	
Benzo (a) anthracene	1.21	0.100	**	н	"	Ħ	n	n	
Benzo (a) pyrene	0.822	0.100	p	**	11	71	**	11	
Benzo (b) fluoranthene	0.399	0.100	n	u	"	n	н	lf .	
Benzo (ghi) perylene	0.647	0.100	Ħ	ıı	n	Ħ	11	ii .	
Benzo (k) fluoranthene	ND	0.100	n	**	17	н	11	n	
Chrysene	1.29	0.100	11	11	n	,	11	"	
Dibenz (a,h) anthracene	ND	1.00	н	100	n	н	12/05/00	**	
Fluoranthene	2.21	0.100	n	10	n	u	12/05/00	b	
Fluorene	8.70	0.100	н	11	**	**	79	, H	
Indeno (1,2,3-cd) pyrene	0.255	0.100	ır	н	H	n	n	n	
hthalene	43.7	1.00	n	100	· п	11	12/05/00	tr	
nanthrene	21.1	1.00	n	**	*1	IT	11	#	
Pyrene	10.8	0.100	tr	10	IT	U	12/05/00	"	
Surrogate: 2-FBP	76.0 %	13-140			"	"		<u> </u>	
Surrogate: Nitrobenzene-d5		10-136			,,	"	"	"	S-0
Surrogate: p-Terphenyl-d14		30-150			"	"	"	"	
SB-03A (B0L0047-08) Soil		n Received	l: 12/01/00 1	15:37					
	ND	0.250	mg/kg dry	10	01.04010	12/04/00	12/06/00	GCMS-SIM	-
Acenaphthene	ND ND	0.250	" "	"	"	n	11	h	
Acenaphthylene	ND ND	0.250	11	n	n	11	н	н	
Anthracene	ND ND	0.250	11	u	n	u	n-	n	
Benzo (a) anthracene	ND ND	0.250	**	**	,,		n	n	
Benzo (a) pyrene	ND	0.250	ir .	lt.	U	n	11	n	
Benzo (b) fluoranthene	1.72	0.250	•	u	11	n	11	n	
Benzo (ghi) perylene	ND	0.250	"	**	Ħ	"	n	Ħ	
Benzo (k) fluoranthene	ND	0.250	U	Ü	11	**	11	Ħ	
Chrysene Dibenz (a,h) anthracene	ND ND	0.250	11	11	n	n	n	**	
Fluoranthene	ND ND	0.250		н	n	ır	**	н	
	ND	0.250	n	н	n	н	, 4	h	
Fluorene	0.328	0.250	. "	n	11	n	н	n	
Indeno (1,2,3-cd) pyrene	0.528 ND	0.250	ıı	n	11	n	tr	h	
Naphthalene	ND ND	0.250	**	m	87	н	#	11	
Phenanthrene	· ND	0.250	17	.,	**	n	11	п	
Pyrene	, 8011	[1 / 7]							

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Foster Wheeler Environmental Corporation

Bothell WA, 98011

Project: West Commodore Way Phase II 12100 NE 195th Street Project Number: n/a

Reported:

12/21/00 15:55

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Project Manager: Bryan Graham

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
SB-03A (B0L0047-08) Soil	Sampled: 12/01/00 14:1	0 Received	l: 12/01/00 1	15:37					
Surrogate: Nitrobenzene-d5	72.2 %	10-136			0L04010	12/04/00	12/06/00	GCMS-SIM	
Surrogate: p-Terphenyl-d14	108 %	30-150			"	"	"	"	
SB-05B (B0L0047-09) Soil	Sampled: 12/01/00 11:4	5 Received	: 12/01/00 1	5:37					
Acenaphthene	ND	0.0100	mg/kg dry	1	0L04010	12/04/00	12/05/00	GCMS-SIM	
Acenaphthylene	ND	0.0100	n	tt	**	н	11	n	
Anthracene	ND	0.0100	n		n	'n	n	n	
Benzo (a) anthracene	ND	0.0100	**	n	to	n	••	11 1	
Benzo (a) pyrene	0.117	0.0100	н	n	D	n	11	п	
Benzo (b) fluoranthene	ND	0.0100	n	11	n	**	*1	11	
Benzo (ghi) perylene	ND	0.0100	n	**	17	71	Ħ	**	
Benzo (k) fluoranthene	ND	0.0100	n	ħ	Ħ	n	n	n	
Chrysene	ND	0.0100	n	n	11	n	10	n	
Dibenz (a,h) anthracene	ND	0.0100	n	n	Ħ	n	p	n	,
Fluoranthene	ND	0.0100	**	n		н	n	P.	(
luorene	ND	0.0100	Ħ	17	n	jı .	n	n	·
ndeno (1,2,3-cd) pyrene	ND	0.0100	ti	n	D	n	**	Ħ	
Naphthalene	ND	0.0100	n	я	h	n	**	n	
Phenanthrene	ND	0.0100	11		,,	•	n	n	
Pyrene	ND	0.0100	**	11	Ħ	11	n	n	
Surrogate: 2-FBP	72.0 %	13-140			"	· ·	"	"	
Surrogate: Nitrobenzene-d5	92.8 %	10-136			"	**	,,	"	
Surrogate: p-Terphenyl-d14	105 %	30-150			"	"	"	,,	
SB-05C (B0L0047-10) Soil	Sampled: 12/01/00 12:16	0 Received	: 12/01/00 1	5:37					
Acenaphthene	ND	0.0200	mg/kg dry	2	0L04010	12/04/00	12/05/00	GCMS-SIM	
Acenaphthylene	ND	0.0200	#1	n	*1	н	n	n	
Anthracene	ND	0.0200	17	H	11	17	11	n	
Benzo (a) anthracene	0.0342	0.0200	n	n	n	ŧ1	•	,	
Benzo (a) pyrene	0.0505	0.0200	n	**	n	**	n	11	
Benzo (b) Nuoranthene	0.0749	0.0200	n	11	n	n	n	n	
Benzo (ghi) perylene	0.0456	0.0200	n	n	и	n	п	н	
Benzo (k) fluoranthene	0.0260	0.0200	11	n	n	11	•	н	
Chrysene	0.0651	0.0200	**	17	н	19	"	n	
Dibenz (a,h) anthracene	ND	0.0200	н			Ħ	n	h	
Fluoranthene	0.122	0.0200	ii .	,	m	H	**	п	
Fluorene	ND	0.0200	n	11	n	11	If	**	
Indeno (1,2,3-cd) pyrene	0.0472	0.0200	н	n	b		n	*	
	010472	0.0200							

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II Project Number: n/a

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

Reported: 12/21/00 15:55

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting	** **	· · ·		D .		244.1	21.4
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-05C (B0L0047-10) Soil	Sampled: 12/01/00 12:10	Received	l: 12/01/00 1	5:37			_		
Naphthalene	ND	0.0200	mg/kg dry	2	0L04010	12/04/00	12/05/00	GCMS-SIM	
Phenanthrene	0.0960	0.0200	11	r	"	II	n	11	
Pyrene	0.0960	0.0200	"			ıı	н		
Surrogate: 2-FBP	67.5 %	13-140			"	71	"	"	
Surrogate: Nitrobenzene-d5	80.3 %	10-136			"	"	"	"	
Surrogate: p-Terphenyl-d14	101 %	30-150			"	"	n	"	
SB-05D (B0L0047-11) Soil	Sampled: 12/01/00 12:40	Received	1: 12/01/00 1	15:37					_
Acenaphthene	ND	0.0100	mg/kg dry	1	0L04010	12/04/00	12/05/00	GCMS-SIM	
Acenaphthylene	ND	0.0100	н	n	H	71	"	17	
Anthracene	ND	0.0100	p	ti	"	"	**	n	
Benzo (a) anthracene	ND	0.0100	n	"	"	"	n	11	
Benzo (a) pyrene	0.0107	0.0100	**	n	"	ti	n	н	
zo (b) fluoranthene	0.0152	0.0100	"	n	"	r	n	Ħ	
zo (ghi) perylene	ND	0.0100	n	"	**	n	u	le .	
Benzo (k) fluoranthene	ND	0.0100	п	I)	"	**	11	n	
Chrysene	0.0143	0.0100	11	10	Ħ	н	**		
Dibenz (a,h) anthracene	ND	0.0100	r	ų	17	Ħ	n	71	
Fluoranthene	0.0303	0.0100	11	n	n	H	It	M	
Fluorene	ND	0.0100	11	H	n	tt	u	H	
Indeno (1,2,3-cd) pyrene	0.0107	0.0100	н	11	n	**	**	n	
Naphthalene	ND	0.0100	17	Ħ	11	•	*1	77	
Phenanthrene	0.0312	0.0100	*	н	n	n	'n	**	
Pyrene	0.0232	0.0100	**	Ħ	11	n			
Surrogate: 2-FBP	83.9 %	13-140	,		"	"	"	"	
Surrogate: Nitrobenzene-d5	104 %	10-136			"	"	"	"	
Surrogate: p-Terphenyl-d14	122 %	30-150			**	"	"	n	



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/21/00 15:55

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Į	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB03B (B0L0047-07) Soil	Sampled: 12/01/00 13:42	Received:	12/01/00	15:37					
Dry Weight	83.5	1.00	%	1	0L04036	12/04/00	12/05/00	BSOPSPL003R07	
SB-03A (B0L0047-08) Soil	Sampled: 12/01/00 14:10	Received	: 12/01/00	15:37					
Dry Weight	81.2	1.00	%	1	0L04036	12/04/00	12/05/00	BSOPSPL003R07	
SB-05B (B0L0047-09) Soil	Sampled: 12/01/00 11:45	Received	12/01/00	15:37					
Dry Weight	80.6	1.00	%	1	0L04036	12/04/00	12/05/00	BSOPSPL003R07	
SB-05C (B0L0047-10) Soil	Sampled: 12/01/00 12:10.	Received	: 12/01/00	15:37			,		
Dry Weight	81.9	1.00	%	1	0L04037	12/04/00	12/05/00	BSOPSPL003R07	
SB-05D (B0L0047-11) Soil	Sampled: 12/01/00 12:40	Received	: 12/01/00	15:37	_				
Dry Weight	74.8	1.00	%	1	0L04037	12/04/00	12/05/00	BSOPSPL003R07	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

Analyte Batch 0L04019: Prepared 12/04/00 Blank (0L04019-BLK1) Gasoline Range Hydrocarbons Benzene	ND ND ND	Limit PA 5030B 5.00 0.0500		Level	Result	%REC	Limits	RPD	Limit	Notes
Blank (0L04019-BLK1) Gasoline Range Hydrocarbons Genzene	ND ND	5.00								•
Gasoline Range Hydrocarbons Benzene	ND									
Benzene	ND									
		0.0500	mg/kg wet							
m .	ND	0.0500	n							
Toluene		0.0500	Ħ							
Ethylbenzene	ND	0.0500	μ							
Xylenes (total)	ND	0.100	н							
Surrogate: 4-BFB (FID)	4.31			4.00		108	50-150			
Surrogate: 4-BFB (PID)	4.63		"	4.00		116	50-150			
LCS (0L04019-BS1)					_					
Gasoline Range Hydrocarbons	21.9	5.00	mg/kg wet	25.0		87.6	70-130		_	
Surrogate: 4-BFB (FID)	4.19		"	4.00		105	50-150			
licate (0L04019-DUP1)					Source: I	30K0612-	07			
line Range Hydrocarbons	ND	5.00	mg/kg dry		ND			121	50	Q-05
Surrogate: 4-BFB (FID)	4.19		n	4.28	•	97.9	50-150			
Duplicate (0L04019-DUP2)					Source: I	30K0684-	05			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND	-	-	31.5	50	
Surrogate: 4-BFB (FID)	4.38		п —	4.37		100	50-150	-	-	
Matrix Spike (0L04019-MS1)					Source: 1	B0L0027-	01			
Benzene	0.458	0.0500	mg/kg dry	0.531	ND	82.7	60-140			
Toluene	0.472	0.0500	n	0.531	ND	86.2	60-140			
Ethylbenzene	0.489	0.0500	"	0.531	ND	91.1	60-140			
Xylenes (total)	1.51	0.100	п	1.59	ND	93.3	60-140			
Surrogate: 4-BFB (PID)	4.17			4.25		98.1	50-150			
Matrix Spike Dup (0L04019-MSD1)					Source: 1	B0L0027-	01			
Benzene	0.469	0.0500	mg/kg dry	0.531	ND	84.8	60-140	2.37	20	
Toluene	0.487	0.0500	"	0.531	ND	89.0	60-140	3.13	20	
Ethylbenzene	0.496	0.0500	**	0.531	ND	92.4	60-140	1.42	20	
Xylenes (total)	1.50	0.100	h	1.59	ND	92.7	60-140	0.664	20	
Surrogate: 4-BFB (PID)	4.18		"	4.25		98.4	50-150	_		

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011 Project Manager: Bryan Graham 12/21/00 15:55

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L07039:	Prepared 12/07/00	Using F	PA 5030B	(P/T)							
Blank (0L07039-Bl					_						
Gasoline Range Hydro	carbons	ND	50.0	ug/l	-						
Benzene		ND	0.500	p							
Toluene		ND	0.500	H							
Ethylbenzene		ND	0.500	n							
Xylenes (total)		ND	1.00	n							
Surrogate: 4-BFB (FII	D)	46.5		"	48.0		96.9	50-150		· -	
Surrogate: 4-BFB (P11	D)	53.6		"	48.0		112	50-150			
Blank (0L07039-BI	_K2)										
Gasoline Range Hydro	carbons	ND	50.0	ug/l							
Benzene		ND	0.500	**							
Toluene		ND	0.500	Ħ							
Ethylbenzene		ND	0.500	H							1
Xylenes (total)		ND	1.00	u							
Surrogate: 4-BFB (FII))	53.9		"	48.0		112	50-150	-		
Surrogate: 4-BFB (PIL))	52.9		"	48.0		110	50-150			
LCS (0L07039-BS1)										
Gasoline Range Hydro	carbons	454	50.0	ug/l	500	-	90.8	70-130			
Surrogate: 4-BFB (FIL))	54.4		"	48.0		113	50-150			
LCS (0L07039-BS2)										
Gasoline Range Hydro	carbons	504	50.0	ug/l	500		101	70-130	_		
Surrogate: 4-BFB (FIL	0)	59.9		<i>"</i>	48.0		125	50-150			
Duplicate (0L07039	P-DUP1)					Source: I	30L0040-0	02			
Gasoline Range Hydro	carbons	ND	50.0	ug/l	· .	ND				25	
Surrogate: 4-BFB (FIL))	52.9		<i>"</i>	48.0		110	50-150			•

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Portland

12100 NE 195th Street

Project Number: n/a

Reported:

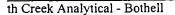
Bothell WA, 98011

Project Manager: Bryan Graham

12/21/00 15:55

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

		Reporting	_	Spike	Source		%REC	-	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L07039: Prepared 12/07/00	Using EF	PA 5030B	(P/T)						_	
Duplicate (0L07039-DUP2)		-			Source: I	30L0040-0	03			
Gasoline Range Hydrocarbons	ND	50.0	ug/l		ND				25	
Surrogate: 4-BFB (F1D)	50.4		"	48.0		105	50-150			
Matrix Spike (0L07039-MS1)					Source: I	30L0047-	02			
Benzene	9.71	0.500	ug/l	10.0	ND	93.3	70-130			_
Foluene	9.95	0.500	n	10.0	ND	97.8	70-130			
Ethylbenzene	10.6	0.500	n	10.0	ND	106	70-130			
Nylenes (total)	31.5	1.00	"	30.0	ND	104	70-130			
Surrogate: 4-BFB (PID)	51.7		"	48.0		108	50-150	-		_
Matrix Spike Dup (0L07039-MSD1)					Source: 1	B0L0047-	02			
Benzene	9.83	0.500	ug/l	10.0	ND	94.4	70-130	1.23	15	
ene	10.1	0.500	n	10.0	ND	99.4	70-130	1.50	15	
lbenzene	10.7	0.500	tı	10.0	ND	107	70-130	0.939	15	
Xylenes (total)	31.9	1.00	1)	30.0	ND	105	70-130	1.26	15	
Surrogate: 4-BFB (PID)	52.9		"	48.0		110	50-150			



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Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/21/00 15:55

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

	<u> </u>		Reporting		Spike	Source		%REC	•	RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L05041:	Prepared 12/05/00	Using E	PA 3550B				-				
Blank (0L05041-B)	LK1)					<u>-</u>				•	
Diesel Range Hydroca	urbons	ND	10.0	mg/kg wet							
Lube Oil Range Hydro	ocarbons	ND	25.0	Ħ							
Surrogate: 2-FBP	_	8.66		"	10.7		80.9	50-150			
Surrogate: Octacosan	e	8.96		"	10.7		8 3 .7	50-150			
LCS (0L05041-BS)	1)										
Diesel Range Hydroca	arbons	66.7	10.0	mg/kg wet	66.7	-	100	60-140			
Surrogate: 2-FBP		7.95		,,	10.7		74.3	50-150			
Duplicate (0L0504)	1-DUP1)					Source: 1	B0L0057-0	D 1			
Diesel Range Hydroca	arbons	99.3	10.0	mg/kg dry		98.5	•		0.809	50	-
Lube Oil Range Hydro	ocarbons	81.8	25.0	D		91.3			11.0	50	,
Surrogate: 2-FBP		9.22		"	12.6	,	73.2	50-150	,		
Surrogate: Octacosan	e	9.98		"	12.6		79.2	50-150			
Duplicate (0L0504	1-DUP2)					Source: J	B0L0060-	02			
Diesel Range Hydroca	arbons	ND	10.0	mg/kg dry		ND			0.451	50	
Lube Oil Range Hydro	ocarbons	ND	25.0	11		28.7			19.9	50	
Surrogate: 2-FBP		7.82	-	"	12.9		60.6	50-150			
Surrogate: Octacosan	e	9.05		"	12.9		70.2	50-150			
Batch 0L06005:	Prepared 12/06/00	Using E	PA 3510C	/600 Series							
Blank (0L06005-B	LK1)										
Diesel Range Hydroca	arbons	ND	0.250	mg/l							
Lube Oil Range Hydro	ocarbons	ND	0.500	n					•		
Surrogate: 2-FBP		0.226	•		0.320		70.6	50-150	-		
Surrogate: Octacosan	e	0.239		**	0.320		74.7	50-150			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/21/00 15:55

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L06005:	Prepared 12/06/00	Using EP	A 3510C/	600 Series				_			
LCS (0L06005-BS1)					_					
Diesel Range Hydroca		1.62	0.250	mg/l	2.00		81.0	60-140			
Surrogate: 2-FBP		0.219		,,	0.320	-	68.4	50-150	· · ·		
LCS Dup (0L06005	5-BSD1)										
Diesel Range Hydroca		1.57	0.250	mg/l	2.00		78.5	60-140	3.13	40	
Surrogate: 2-FBP		0.235		"	0.320		73.4	50-150			



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12100 NE 195th Street

Project: West Commodore Way Phase II

Bothell WA, 98011

Project Manager: Bryan Graham

Project Number: n/a

Reported:

12/21/00 15:55

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L07024:	Prepared 12/07/00	Using E	PA 3050B								
	-K1)								_		
Lead		ND	0.500	mg/kg wet							
LCS (0L07024-BS1	·)										
Lead	,	23.7	0.500	mg/kg wet	25.0		94.8	80-120	· -		_ .
Matrix Spike (0L07	/024-MS1)					Source: I	30L0019-()9			
Lead	<u></u>	22.4	0.321	mg/kg dry	19.6	2.93	99.3	70-130			
Matrix Spike Dup (0L07024-MSD1)					Source: I	30L0019-(19			
Lead		21.3	0.338	mg/kg dry	20.6	2.93	89.2	70-130	5.03	20	
Batch 0L11028:	Prepared 12/11/00	Heing E	PA 7470A								
Blank (0L11028-Bl		Osing D	111 /4/025					_			,
Mercury	<u>.</u>	NĎ	0.00100	mg/l							
•		2	0.00100								``~_
LCS (0L11028-BS1)							- 			
Mercury		0.00451	0.00100	mg/l	0.00500		90.2	70-130			
Matrix Spike (0L11	028-MS1)					Source: F	30L0049-0)5			
Mercury		0.00482	0.00100	mg/l	0.00500	ND	96.4	75-125			
Matrix Spike Dup (0L11028-MSD1)					Source: I	30L0049-0)5			
Mercury		0.00479	0.00100	mg/l	0.00500	ND	95.8	75-125	0.624	20	
Batch 0L11052:	Prepared 12/11/00	Using E	PA 3020A								
Blank (0L11052-BL	-K1)		-					•		•	
Antimony		ND	0.00100	mg/l							
Arsenic		ND	0.00100	"							
Beryllium	•	ND	0.00100	u							
Cadmium		ND	0.00100	n							
Chromium		ND	0.00100	n							
			0.00100	n							
Copper		ND	0.00100								
Copper Lead		ND ND	0.00100	h							
				n							
Lead		ND	0.00100	n n							
Lead Nickel		ND ND	0.00100 0.00100	11 11 11							

North Creek Analytical - Bothell

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Project: West Commodore Way Phase Il Project Number: n/a

Reported: 12/21/00 15:55

DPD

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD_	Limit	Notes
Batch 0L11052:	Prepared 12/11/00	Using 1	EPA 3020A								
Blank (0L11052-B	LKI)	-									
Zinc		0.0453	0.0100	mg/l							
LCS (0L11052-BS	1)										
Antimony		0.187	0.00100	mg/l	0.200		93.5	80-120			
Arsenic		0.197	0.00100	"	0.200		98.5	80-120			
Beryllium		0.198	0.00100	n	0.200		99.0	80-120			
Cadmium		0.192	0.00100	l7	0.200		96.0	80-120			
Chromium		0.209	0.00100	n	0.200		105	80-120			
Соррег		0.188	0.00100	It	0.200		94.0	80-120			
Lead		0.193	0.00100	#1	0.200		96.5	80-120			
Nickel		0.196	0.00100	n	0.200		98.0	80-120			
Salanium		0.202	0.00100	71	0.200		101	80-120			
er		0.194	0.00100	**	0.200		97.0	40-140			
ı nailium		0.201	0.00100	11	0.200		101	80-120			
Zinc		0.183	0.0100	17	0.200		91.5	80-120			
Matrix Spike (0L)	11052-MS1)					Source:	B0L0049-	05			
Antimony		0.198	0.00100	mg/l	0.200	0.00211	97.9	75-125			
Arsenic		0.201	0.00100	n	0.200	0.00179	99.6	75-125			
Beryllium		0.191	0.00100	n	0.200	ND	95.5	75-125			
Cadmium		0.440	0.00200	n	0.200	0.239	101	75-125			
Chromium		0.203	0.00100	11	0.200	ND	101	75-125			
Copper		0.183	0.00100	H.	0.200	0.00226	90.4	75-125			
Lead		0.195	0.00100	n	0.200	ND	97.1	75-125			
Nickel		0.206	0.00100	**	0.200	0.0167	94.6	75-125			
Selenium		0.206	0.00100	h	0.200	ND	103	75-125			
Silver		0.191	0.00100	u u	0.200	ND	95.5	40-140			
Thallium		0.208	0.00100	"	0.200	ND	104	75-125			
Zinc		5.02	0.200	"	0.200	4.96	30.0	75-125			Q
LIIIC			•								

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/21/00 15:55

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD.	Limit	Notes
Batch 0L11052:	Prepared 12/11/00	Using E	PA 3020A							•	
Matrix Spike Dup ((0L11052-MSD1)					Source: I	BOL0049-0)5			
Antimony		0.199	0.00100	mg/l	0.200	0.00211	98.4	75-125	0.504	20	
Arsenic		0.200	0.00100	n	0.200	0.00179	99.1	75-125	0.499	20	
Beryllium		0.192	0.00100	h	0.200	ND	96.0	75-125	0.522	20	
Cadmium		0.439	0.00200	n	0.200	0.239	100	75-125	0.228	20	
Chromium		0.200	0.00100	n	0.200	ND	100	75-125	1.49	20	
Соррег		0.183	0.00100	n	0.200	0.00226	90.4	75-125	0	20	
Lead		0.203	0.00100	n	0.200	ND	101	75-125	4.02	20	
Nickel		0.207	0.00100	, "	0.200	0.0167	95.1	75-125	0.484	20	
Selenium		0.205	0.00100	H	0.200	ND	102	75-125	0.487	20	
Silver		0.188	0.00100	н	0.200	ND	94.0	40-140	1.58	50	
Thallium		0.209	0.00100	*1	0.200	ND	104	75-125	0.480	20	
Zinc		5.13	0.200	n	0.200	4.96	85.0	75-125	2.17	20	(
Batch 0L12014:	Prepared 12/12/00	Using E	PA 3020A								, <u> </u>
Blank (0L12014-Bl	LK1)										_
Lead		ND	0.00100	mg/l							
LCS (0L12014-BS1)										
Lead		0.191	0.00100	mg/l	0.200		95.5	80-120			_
Matrix Spike (0L1)	2014-MS1)					Source: I	30L0028-0	02			
Lead .		0.203	0.00100	mg/l	0.200	ND	101	75-125			
Matrix Spike Dup	(0L12014-MSD1)					Source: I	30 1 .0028-0	02			
Lead		0.192	0.00100	mg/l	0.200	ND	95.9	75-125	5.57	20	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

Applied	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte										
Batch 0L12045: Prepared 12/12/0	0 Using El	PA 3050B								
Blank (0L12045-BLK1)										
Lead	ND	0.500	mg/kg wet					•		
LCS (0L12045-BS1)										
Lead	21.0	0.500	mg/kg wet	25.0	-	84.0	80-120			
Matrix Spike (0L12045-MS1)					Source: 1	30L0047-	10			
Lead	24.6	0.312	mg/kg dry	19.1	5.59	99.5	70-130		-	
Matrix Spike Dup (0L12045-MSD1)					Source: 1	B0L0047-	10			
Lead	24.6	0.338	mg/kg dry	20.6	5.59	92.3	70-130	0	20	
Batch 0L13033: Prepared 12/13/0	00 Using E	PA 3020A								
Blank (0L13033-BLK1)										
:	ND	0.0100	mg/l		_					
LCS (0L13033-BS1)										
Zinc	0.200	0.0100	mg/l	0.200		100	80-120			
Matrix Spike (0L13033-MS1)					Source: 1	B0L0269-	01			
Zinc	0.206	0.0100	mg/l	0.200	ND	101	75-125			
Matrix Spike Dup (0L13033-MSD1)					Source: 1	B0L0269-	01	1		
Zinc	0.200	0.0100	mg/l	0.200	ND	97.8	75-125	2.96	20	
Batch 0L18028: Prepared 12/18/6		PA 3020A								
Blank (0L18028-BLK1)	_	<u></u> -	<u>_</u>		•					
Antimony	ND	0.00100	mg/l			_				
Arsenic	ND	0.00100	**							
Beryllium	ND	0.00100	n							
Cadmium	ND	0.00100	n							
Chromium	ND	0.00100	tr							
Copper	ND	0.00100	11							
Lead	ND	0.00100	11							
Nickel	ND	0.00100	ıı							
	ND	0.00100	n							
Selenium	ND	0.00100								
Selenium Silver	ND ND	0.00100	11							

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/21/00 15:55

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L18028:	Prepared 12/18/00	Using	EPA 3020A				_				
Blank (0L18028-BI				,							
Zinc		ND	0.0100	mg/l			_				
LCS (0L18028-BS1)										
Antimony	-	0.212	0.00100	mg/l	0.200		106	80-120			
Arsenic		0.200	0.00100	17	0.200		100	80-120			
Beryllium		0.206	0.00100	U	0.200		103	80-120			
Cadmium		0.206	0.00100	н	0.200		103	80-120			
Chromium		0.205	0.00100		0.200		102	80-120			
Copper		0.210	0.00100	11	0.200		105	80-120			
Lead		0.211	0.00100	**	0.200		105	80-120			
Nickel		0.210	0.00100	n	0.200		105	80-120			
Selenium		0.197	0.00100	n	0.200		98.5	80-120			y
Silver		0.207	0.00100	17	0.200		103	40-140			(
Thallium		0.209	0.00100	n	0.200		105	80-120			,
Zinc		0.213	0.0100	"	0.200		106	80-120			
Matrix Spike (0L18	8028-MS1)					Source: I	30L0047-	01REI			
Antimony	· · · · · · · · · · · · · · · · · · ·	0.216	0.00100	mg/l	0.200	ND	108	75-125			
Arsenic		0.202	0.00100	n	0.200	0.00117	100	75-125			
Beryllium		0.203	0.00100	H	0.200	ND	101	75-125			
Cadmium		0.204	0.00100	tr	0.200	ND	102	75-125			
Chromium		0.204	0.00100	"	0.200	ND	102	75-125			
Copper		0.197	0.00100	11	0.200	0.00325	96.9	75-125			
Lead		0.214	0.00100	"	0.200	ND	107	75-125			
Nickel		0.200	0.00100	11	0.200	0.00487	97.6	75-125			
Selenium		0.193	0.00100	п	0.200	ND	96.1	75-125			
Silver		0.0809	0.00100	**	0.200	ND	40.4	40-140			
Thallium		0.215	0.00100	"	0.200	ND	108	75-125			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

 			Reporting		Spike	Source	<u> </u>	%REC		RPD	_
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L18028:	Prepared 12/18/00	Using E	PA 3020A								
Matrix Spike Dup	(0L18028-MSD1)	_	<u> </u>			Source: E	80L0047-0	1RE1			
Antimony	<u> </u>	0.215	0.00100	mg/l	0.200	ND	108	75-125	0.464	20	
Arsenic		0.199	0.00100	Ħ	0.200	0.00117	98.9	75-125	1.50	20	
Beryllium		0.202	0.00100	19	0.200	ND	101	75-125	0.494	20	
Cadmium		0.197	0.00100	n	0.200	ND	98.5	75-125	3.49	20	
Chromium		0.197	0.00100	n	0.200	ND	98.1	75-125	3.49	20	
Соррег		0.192	0.00100	n	0.200	0.00325	94.4	75-125	2.57	20	
Lead		0.209	0.00100	Ħ	0.200	ND	104	75-125	2.36	20	
Nickel		0.192	0.00100	n	0.200	0.00487	93.6	75-125	4.08	20	
Selenium		0.193	0.00100	11	0.200	ND	96.1	75-125	0	20	
Silver		0.122	0.00100	n	0.200	ND	61.0	40-140	40.5	50	
Thallium		0.210	0.00100	11	0.200	ND	105	75-125	2.35	20	
		0.219	0.0100	n	0.200	0.0300	94.5	75-125	2.70	20	
·											
Batch 0L18029:	Prepared 12/18/00	Using E	PA 7470A			·					
Blank (0L18029-B	LK1)										
Mercury		ND	0.00100	mg/l							
LCS (0L18029-BS	1)										
Mercury		0.00511	0.00100	mg/l	0.00500		102	70-130			
Matrix Spike (0L1	8029-MS1)					Source: 1	B0L0047-	01RE1			
Mercury		0.00480	0.00100	mg/l	0.00500	ND	96.0	75-125	•		
Matrix Spike Dun	(0L18029-MSD1)					Source:	B0L0047-	01RE1			
	(0.00483	0.00100	mg/l	0.00500	ND	96.6	75-125	0.623	20	
Mercury		0.00483	0.00100	mg/ı	0.00300	ND	70.0	13-12-3			

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<u> </u>										-
Batch 0L15004: Prepared 12/14/00	Using E	PA 5030B	[P/T]	_						
Blank (0L15004-BLK1)				_						_
Acetone	ND	10.0	ug/l							
Benzene	ND	1.00	71							
Bromobenzene	ND	1.00	**							
Bromochloromethane	ND	1.00	n							
Bromodichloromethane	ND	1.00	n							
Bromoform	ND	1.00	n							
Bromomethane	ND	1.00	u							
2-Butanone	ND	10.0								
n-Butylbenzene	ND	1.00	"							
sec-Butylbenzene	ND	1.00	11							
tert-Butylbenzene	ND	1.00	**							
Carbon disulfide	ND	1.00	**							
Carbon tetrachloride	ND	1.00	n							
Chlorobenzene	ND	1.00	n							
Chloroethane	ND	1.00	n				•			
Chloroform	ND	1.00	n							
Chloromethane	ND	5.00	n							
2-Chlorotoluene	ND	1.00	n							
4-Chlorotoluene	ND	1.00	n							•
Dibromochloromethane	ND	1.00	n							
1,2-Dibromo-3-chloropropane	ND	5.00	**							
1,2-Dibromoethane	ND	1.00	**							
Dibromomethane	ND	1.00	n							
1,2-Dichlorobenzene	ND	1.00	11							
1,3-Dichlorobenzene	ND	1.00	Ħ							
1,4-Dichlorobenzene	ND	1.00	IT							
Dichlorodifluoromethane	ND	1.00	p							
1,1-Dichloroethane	ND	1.00	n							
1,2-Dichloroethane	ND	1.00	17							
1,1-Dichloroethene	ND	1.00	n							
cis-1,2-Dichloroethene	ND	1.00	11							
trans-1,2-Dichloroethene	ND	1.00	n							
1,2-Dichloropropane	ND	1.00	11							
1,3-Dichloropropane	ND	1.00	n							

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase Il

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

			Reporting	_	Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L15004: Pro	epared 12/14/00	Using El	PA 5030B	P/T]							_
Blank (0L15004-BLK1)		_									
2,2-Dichloropropane		ND	1.00	ug/l							
1,1-Dichloropropene		ND	1.00	n						•	
cis-1,3-Dichloropropene		ND	1.00	11							
trans-1,3-Dichloropropene		ND	1.00	iT							
Ethylbenzene		ND	1.00	Ħ							
Hexachlorobutadiene		ND	1.00	h							
2-Hexanone		ND	10.0	#							
Isopropylbenzene		ND	1.00	11							
p-lsopropyltoluene		ND	1.00	Ħ							
Methylene chloride		ND	5.00	19							
4-Methyl-2-pentanone		ND	10.0	H							
ithalene		ND	1.00	n							
pylbenzene		ND	1.00	**							
Styrene		ND	1.00	u							
1.1,1,2-Tetrachloroethane		ND	1.00	ti							
1,1,2,2-Tetrachloroethane		ND	1.00	H							
Tetrachloroethene		ND	1.00	н							
Toluene		ND	1.00	n							
1,2,3-Trichlorobenzene		ND	1.00	н							
1,2,4-Trichlorobenzene		ND	1.00	n							
1,1,1-Trichloroethane		ND	1.00	u u							
1,1,2-Trichloroethane		ND	1.00	n						•	•
Trichloroethene		ND	1.00	n							
Trichlorofluoromethane		ND	1.00	,							
1,2,3-Trichloropropane		ND	1.00	U							
1,2,4-Trimethylbenzene		ND	1.00	11							
1,3,5-Trimethylbenzene		ND	1.00	n							
Vinyl chloride	·	ND	1.00	n							
m,p-Xylene		ND	2.00	"							
o-Xylene		ND	1.00	n							
Surrogate: 1,2-DCA-d4		40.7		"	40.0		102	60-130			
Surrogate: Toluene-d8		38.2		"	40.0		95.5	80-120			
Surrogate: 4-BFB		40.1		H	40.0		100	80-120			

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/21/00 15:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L15004:	Prepared 12/14/00	Using El	PA 5030B	[P/T]							
LCS (0L15004-BS1)											
Benzene	··	19.1	1.00	ug/l	20.0	, ,	95.5	80-130			
Chlorobenzene		18.6	1.00	II.	20.0		93.0	80-120			
1,1-Dichloroethene		20.0	1.00	n	20.0		100	60-140			
Toluene		18.1	1.00	n	20.0		90.5	70-130			
Trichloroethene		19.5	1.00	,	20.0		97.5	70-130			
Surrogate: 1,2-DCA-d4		41.9		"	40.0		105	60-130			
Surrogate: Toluene-d8		38.6		"	40.0		96.5	80-120			
Surrogate: 4-BFB		39.8		"	40.0		99.5	80-120			
Matrix Spike (0L150	04-MS1)					Source: I	BOL0132-0)1			
Benzene		20.2	1.00	ug/l	20.0	ND	101	80-130			_
Chlorobenzene		18.4	1.00	n	20.0	ND	92.0	80-120			,-
1,1-Dichloroethene		20.4	1.00	**	20.0	ND	102	60-140			l,
Toluene		18.9	1.00	**	20.0	ND	94.5	70-130			`~~-
Trichloroethene		20.3	1.00	*7	20.0	ND	101	70-130			
Surrogate: 1,2-DCA-d4		41.3	-	"	40.0		103	60-130		<u> </u>	
Surrogate: Toluene-d8		38.2		"	40.0		95.5	80-120			
Surrogate: 4-BFB		40.3		"	40.0		101	80-120			
Matrix Spike Dup (0)	L15004-MSD1)					Source: F	0L0132-0)1			
Benzene		20.1	1.00	ug/l	20.0	ND	101	80-130	0.496	20	
Chlorobenzene		18.6	1.00	**	20.0	ND	93.0	80-120	1.08	15	
1,1-Dichloroethene		20.8	1.00	"	20.0	ND	104	60-140	1.94	30	
Toluene		19.1	1.00	",	20.0	ND	95.5	70-130	1.05	20	
Trichloroethene		20.3	1.00	n	20.0	ND	101	70-130	0	20	
Surrogate: 1,2-DCA-d4	 · ·	41.1		,,	40.0		103	60-130			
Surrogate: Toluene-d8		<i>38.4</i>		"	40.0		96.0	80-120			
Surrogate: 4-BFB		40.2		"	40.0		101	80-120			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/21/00 15:55

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<u> </u>					_		-			
Batch 0L06018: Prepared 12/06/00	Using El	PA 3520C/	600 Series							
Blank (0L06018-BLK1)	_									
Acenaphthene	ND	10.0	ug/l							
Acenaphthylene	ND	10.0	,,							
Aniline	ND	10.0	U							
Anthracene	ND	10.0	н							
Benzoic Acid	ND	20.0	lt .							
Benzo (a) anthracene	ND	10.0	n							
Benzo (b) fluoranthene	ND	10.0	11							
Benzo (k) fluoranthene	ND	10.0	"							
Benzo (ghi) perylene	ND	10.0	n							
Benzo (a) pyrene	ND	10.0	n n							
Benzyl alcohol	ND	10.0	11							
v!-chloroethoxy)methane	ND	10.0	17							
!-chloroethyl)ether	ND	10.0	**							
Bis(2-chloroisopropyl)ether	ND	10.0	ti							
Bis(2-ethylhexyl)phthalate	ND.	50.0	n							
4-Bromophenyl phenyl ether	ND	10.0	ii .							
Butyl benzyl phthalate	ND	10.0	11							
Carbazole	ND	10.0	11							
4-Chloroaniline	ND	10.0	II				·			
2-Chloronaphthalene	ND	10.0	**							
4-Chloro-3-methylphenol	ND	10.0	"							
2-Chlorophenol	ND	10.0								
4-Chlorophenyl phenyl ether	ND	10.0	**							
Chrysene	ND	10.0	n							
Dibenz (a,h) anthracene	ND	10.0	**							
Dibenzofuran	ND	10.0	**							
Di-n-butyl phthalate	ND	10.0	T							
1,3-Dichlorobenzene	ND	10.0	,							
1,4-Dichlorobenzene	ND	10.0	II .							
1,2-Dichlorobenzene	ND	10.0	11							
3,3'-Dichlorobenzidine	ND	10.0	n							
2,4-Dichlorophenol	ND	10.0	n							
Diethyl phthalate	ND	10.0	**							
			n ·							
2,4-Dimethylphenol	ND	10.0	и .							

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/21/00 15:55

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control North Creek Analytical - Bothell

		·	Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L06018:	Prepared 12/06/00	Using l	EPA 3520C/	600 Series							
Blank (0L06018-BL	K1)										
Dimethyl phthalate		ND	10.0	ug/l							
4,6-Dinitro-2-methylph	enol	ND	10.0	TI .							
2,4-Dinitrophenol		ND	20.0	11							
2,4-Dinitrotoluene		ND	10.0	n							
2,6-Dinitrotoluene		ND	10.0	"							
Di-n-octyl phthalate		ND	10.0	n							
Fluoranthene		ND	10.0	b							
Fluorene		ND	10.0	H							
Hexachlorobenzene		ND	10.0	**							
Hexachlorobutadiene		ND	10.0	h							
Hexachlorocyclopentac	liene	ND	10.0	III							
Hexachloroethane		ND	10.0	11							(
Indeno (1,2,3-cd) pyrer	ne	ND	10.0	tt							`
Isophorone		ND	10.0	n							
2-Methylnaphthalene		ND	10.0	**							
2-Methylphenol		ND	10.0	n							
3 & 4-Methylphenol		ND	10.0	n							
Naphthalene		ND	10.0	n							
2-Nitroaniline		ND	10.0	11							
3-Nitroaniline		ND	10.0	U							
4-Nitroaniline		ND	10.0	"							
Nitrobenzene		ND	10.0	11							
2-Nitrophenol		ND	10.0	II .							
4-Nitrophenol		ND	10.0	Ħ							
N-Nitrosodiphenylami	ne	ND	10.0	"							
N-Nitrosodi-n-propyla	mine	ND	10.0	n							
Pentachlorophenol		ND	10.0	11							
Phenanthrene		ND	10.0	n							
Phenol		ND	10.0	h							
Pyrene		ND	10.0	10							
1,2,4-Trichlorobenzen	e	ND	10.0	11							
2,4,5-Trichlorophenol		ND	10.0	IT							
2,4,6-Trichlorophenol		ND	10.0	н							
Surrogate: 2-FP		35.4			50.0		70.8	10-108			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control North Creek Analytical - Bothell

Analyte			Reporting		Spike	Source		%REC	-	RPD	
Blank (DL06018-BLK1) Surrogaie: Phenol-16	Analyte	Result		Units			%REC	Limits	RPD	Limit	Notes
Surrogate: Phenol-d6	Batch 0L06018: Prepared 12/06/00	Using 1	EPA 3520C/	600 Series							
Surrogate: 2,46-TBP 32.6 " 50.0 65.2 15-145	Blank (0L06018-BLK1)									:	
Surrogate: 2.4.6-TBF 32.6	Surrogate: Phenol-d6	35.0		ug/l	50.0		70.0				
Surrogate: Nitrobenzene-d5 34,5 " 50,0 69,0 59,1 51-10		32.6		"							
Surrogate: F-Terphenyl-d14		34.5									
CCS (01.06018-BS1)	Surrogate: 2-FBP	38.9									
Acenaphthene	Surrogate: p-Terphenyl-d14	49.7		"	50.0		99.4	50-135			
Acchapment Acchioro-3-methylphenol 184 10.0 " 200 82.0 35-122 2-Chlorophenol 163 10.0 " 200 81.5 16-130 1,4-Dichlorobenzene 74.5 10.0 " 100 74.5 16-117 2,4-Dinitrotoluene 170 10.0 " 200 85.0 10-139 Itrophenol 170 10.0 " 200 85.0 10-139 Itrophenol 170 10.0 " 200 85.0 10-139 Pentachlorophenol 198 10.0 " 200 89.0 32-134 Phenol 167 10.0 " 200 83.5 10-143 Pyrene 103 10.0 " 100 1133 46-148 Pyrene 103 10.0 " 100 81.9 17-123 Purrogate: 2-FF 34.5 " 50.0 69.0 10-108 Surrogate: Phenol-d6 36.3 " 50.0 72.6 10-126 Surrogate: 2-FBP 42.0 " 50.0 85.4 15-145 Surrogate: 2-FFBP 42.0 " 50.0 86.8 31-116 Surrogate: 2-FFBP 42.0 " 50.0 86.8 31-116 Surrogate: 2-FFBP 42.0 " 50.0 86.8 31-116 Surrogate: Prephenyl-d14 49.7 " 50.0 86.8 31-116 Surrogate: Prephenyl-d14 49.7 " 50.0 86.8 31-116 Surrogate: Prephenyl-d14 49.7 " 50.0 86.8 31-116 Surrogate: Prephenyl-d14 50.0 " 50.0 99.4 50-135 ECS Dup (OL06018-BSD1) Accapabithene 90.7 10.0 ug/l 100 90.7 38-127 3.93 32 4-Chloro-3-methylphenol 155 10.0 " 200 88.3 38-102 5.0 34 4-Chloro-3-methylphenol 155 10.0 " 200 88.3 38-103 5.0 5.0 37 1,4-Dichlorobenzene 82.1 10.0 " 100 88.3 38-100 5.0 33 3-1,4-Dichlorobenzene 82.1 10.0 " 200 88.3 38-100 5.0 37 1,4-Dichlorobenzene 88.3 10.0 " 100 88.3 38-100 5.0 38-127 3-7,5 16-130 5.03 37 1,4-Dichlorobenzene 88.3 10.0 " 100 88.3 38-100 7.2 8 34 4-Nitrophenol 162 10.0 " 200 88.3 38-100 7.2 8 34 4-Nitrophenol 163 10.0 " 200 78.0 10-139 Pentachlorophenol 104 46.148 48 4-Nitrophenol 105 10.0 " 200 78.0 10-139 4-Chlorophenol 106 107 200 78.0 10-139 4-Chlorophenol 107 32-134 1.0 32 Pentachlorophenol 108 42.6 16.10 " 100 82.6 36-130 7.2 8 34 Pentachlorophenol 109 100 82.6 36-130 7.2 8 34	LCS (0L06018-BS1)		. <u> </u>								
4-Chlorophenol 163 10.0 " 200 81.5 16-130 1.4-Dichlorobenzene 74.5 10.0 " 100 74.5 16-117 1.4-Dichlorobenzene 80.1 10.0 " 100 80.1 38-130 1.4-Dichlorobenzene 170 10.0 " 200 85.0 10-139 1.4-Dichlorophenol 170 10.0 " 200 85.0 10-139 1.4-Dichlorophenol 198 10.0 " 200 83.5 10-143 1.4-Dichlorophenol 198 10.0 " 200 83.5 10-143 1.4-Dichlorophenol 198 10.0 " 200 83.5 10-143 1.4-Dichlorophenol 167 10.0 " 200 83.5 10-143 1.4-Dichlorobenzene 81.9 10.0 " 100 81.9 17-123 1.4-Dichlorobenzene 17.2-Zer 18.1-Dichlorobenzene 18.1-Dich	Acenaphthene		10.0								
1,4-Dichlorobenzene	4-Chloro-3-methylphenol										
A-Dinitrotoluene	2-Chlorophenol		10.0								
170 10.0 200 85.0 10-139 10	1,4-Dichlorobenzene	74.5	10.0	b							
Trophenol 176	2,4-Dinitrotoluene	80.1	10.0	**							
Pentachlorophenol 198 10.0 " 200 99.0 32-134 Phenol 167 10.0 " 200 83.5 10-143 Pyrene 103 10.0 " 100 103 46-148 Pyrene 103 10.0 " 100 81.9 17-123 Surrogate: 2-FP 34.5 " 50.0 69.0 10-108 Surrogate: Phenol-d6 36.3 " 50.0 72.6 10-126 Surrogate: 2-4,6-TBP 42.7 " 50.0 85.4 15-145 Surrogate: 2-FBP 42.0 " 50.0 68.6 31-116 Surrogate: 2-FBP 42.0 " 50.0 84.0 28-120 Surrogate: 2-FBP 10.0 " 200 84.5 35-122 8.50 34 4-Chloro-3-methylphenol 169 10.0 " 200 84.5 35-122 8.50 34 2-Chlorophenol 155 10.0 " 200 77.5 16-130 5.03 37 1,4-Dichlorobenzene 82.1 10.0 " 100 82.1 16-117 9.71 35 2,4-Dinitrotoluene 88.3 10.0 " 100 88.3 38-130 9.74 26 4-Nitrophenol 162 10.0 " 200 81.0 10-139 4.82 43 N-Nitrosodi-n-propylamine 82.6 10.0 " 100 82.6 36-130 7.28 34 Pentachlorophenol 200 10.0 " 200 100 32-134 1.01 32 Pentachlorophenol 156 10.0 " 200 78.0 10-143 6.81 37 Phenol 100 100 100 100 100 100 100 100 100 10	trophenol	170	10.0	н	200						
Pennol 167 10.0 " 200 83.5 10-143 Pyrene 103 10.0 " 100 103 46-148 1,2,4-Trichlorobenzene 81.9 10.0 " 100 81.9 17-123 Surrogate: 2-FP 34.5 " 50.0 69.0 10-108 Surrogate: Phenol-d6 36.3 " 50.0 85.4 15-145 Surrogate: 2,4,6-TBP 42.7 " 50.0 85.4 15-145 Surrogate: Nitrobenzene-d5 34.3 " 50.0 86.6 31-116 Surrogate: 2-FBP 42.0 " 50.0 86.6 31-116 Surrogate: p-Terphenyl-d14 49.7 " 50.0 84.0 28-120 Surrogate: p-Terphenyl-d14 49.7 " 50.0 99.4 50-135 LCS Dup (0L06018-BSD1) Acenaphthene 90.7 10.0 ug/l 100 90.7 38-127 3.93 32 4-Chloro-3-methylphenol 169 10.0 " 200 84.5 35-122 8.50 34 2-Chlorophenol 155 10.0 " 200 77.5 16-130 5.03 37 1,4-Dichlorobenzene 82.1 10.0 " 100 82.1 16-117 9.71 35 2,4-Dinitrotoluene 88.3 10.0 " 100 88.3 38-130 9.74 26 4-Nitrophenol 162 10.0 " 200 81.0 10-139 4.82 43 N-Nitrosodi-n-propylamine 82.6 10.0 " 100 82.6 36-130 7.28 34 Pentachlorophenol 200 10.0 " 200 78.0 10-143 6.81 37 Phenol 156 10.0 " 200 78.0 10-143 6.81 37	itrosodi-n-propylamine	76.8	10.0	H	100			36-130			
Phenol	Pentachlorophenol	198	10.0	*1	200		99.0	32-134			
Pyrene 103 100 100 81.9 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 17-123 1	•	167	10.0	*1	200		83.5				
1,2,4-Trichlorobenzene	Pyrene	103	10.0	n	100			46-148			
Surrogate: Phenol-d6 36.3 " 50.0 72.6 10-126 Surrogate: 2,4,6-TBP 42.7 " 50.0 85.4 15-145 Surrogate: Nitrobenzene-d5 34.3 " 50.0 68.6 31-116 Surrogate: 2-FBP 42.0 " 50.0 84.0 28-120 Surrogate: p-Terphenyl-d14 49.7 " 50.0 99.4 50-135 LCS Dup (0L06018-BSD1) 169 10.0 ug/l 100 90.7 38-127 3.93 32 4-Chloro-3-methylphenol 169 10.0 " 200 84.5 35-122 8.50 34 2-Chlorophenol 155 10.0 " 200 77.5 16-130 5.03 37 1,4-Dichlorobenzene 82.1 10.0 " 100 82.1 16-117 9.71 35 2,4-Dinitrotoluene 88.3 10.0 " 100 88.3 38-130 9.74 26 4-Nitrophenol 162 10.0 " 200 81.0 10-139 4.82 43	•	81.9	10.0	11	100		81.9				
Surrogate: Phenol-d6 36.3 " 50.0 72.6 10-126 Surrogate: 2,4,6-TBP 42.7 " 50.0 85.4 15-145 Surrogate: Nitrobenzene-d5 34.3 " 50.0 68.6 31-116 Surrogate: 2-FBP 42.0 " 50.0 84.0 28-120 Surrogate: p-Terphenyl-d14 49.7 " 50.0 99.4 50-135 LCS Dup (0L06018-BSD1) Acenaphthene 90.7 10.0 ug/l 100 90.7 38-127 3.93 32 4-Chloro-3-methylphenol 169 10.0 " 200 84.5 35-122 8.50 34 2-Chlorophenol 155 10.0 " 200 77.5 16-130 5.03 37 1,4-Dichlorobenzene 82.1 10.0 " 100 82.1 16-117 9.71 35 2,4-Dinitrotoluene 88.3 10.0 " 100 88.3 38-130 9.74 26 4-Nitrophenol 162 10.0 " 200 81.0 10-139 4.82 43 N-Nitrosodi-n-propylamine 82.6 10.0 " 20	Surrogate: 2-FP	34.5		"	50.0		69.0				
Surrogate: 2,4,6-TBP 42.7 " 50.0 83.4 13-143 Surrogate: Nitrobenzene-d5 34.3 " 50.0 68.6 31-116 Surrogate: 2-FBP 42.0 " 50.0 84.0 28-120 Surrogate: p-Terphenyl-d14 49.7 " 50.0 99.4 50-135 LCS Dup (0L06018-BSD1) Acenaphthene 90.7 10.0 ug/l 100 90.7 38-127 3.93 32 4-Chloro-3-methylphenol 169 10.0 " 200 84.5 35-122 8.50 34 2-Chlorophenol 155 10.0 " 200 77.5 16-130 5.03 37 1,4-Dichlorobenzene 82.1 10.0 " 100 82.1 16-117 9.71 35 2,4-Dinitrotoluene 88.3 10.0 " 100 88.3 38-130 9.74 26 4-Nitrophenol 162 10.0 " 200 81.0 10-139 4.82 43 N-Nitrosodi-n-propylamine 82.6 10.0 " 200 100 32-134 1.01 32 Pentachlorophenol		36.3		"							
Surrogate: Nitrobenzene-d5 Surrogate: 2-FBP A2.0 Surrogate: 2-FBP Surrogate: p-Terphenyl-d14 A9.7 Surrogate: p-Terphenyl-d14 Acenaphthene 90.7 10.0 100 100 90.7 200 84.5 35-122 8.50 34 -Chloro-3-methylphenol 155 10.0 200 77.5 16-130 5.03 37 1,4-Dichlorobenzene 82.1 10.0 100 82.1 16-117 9.71 35 2,4-Dinitrotoluene 88.3 10.0 100 88.3 38-130 9.74 26 4-Nitrophenol 162 10.0 100 82.6 36-130 7.28 34 Pentachlorophenol 156 10.0 100 200 78.0 10-143 6.81 37 Phenol		42.7		"							
Surrogate: 2-FBP 42.0 " 50.0 84.0 28-120 Surrogate: p-Terphenyl-d14 49.7 " 50.0 99.4 50-135 LCS Dup (0L06018-BSD1) Acenaphthene 90.7 10.0 ug/l 100 90.7 38-127 3.93 32 4-Chloro-3-methylphenol 169 10.0 " 200 84.5 35-122 8.50 34 2-Chlorophenol 155 10.0 " 200 77.5 16-130 5.03 37 1,4-Dichlorobenzene 82.1 10.0 " 100 82.1 16-117 9.71 35 2,4-Dinitrotoluene 88.3 10.0 " 100 88.3 38-130 9.74 26 4-Nitrophenol 162 10.0 " 200 81.0 10-139 4.82 43 N-Nitrosodi-n-propylamine 82.6 10.0 " 200 100 32-134 1.01 32 Pentachlorophenol 156 10.0 " 200 78.0 10-143 6.81 37 Phenol 156 10.0 " 200 78.0 10-143	-	34.3									
LCS Dup (0L06018-BSD1) Acenaphthene 90.7 10.0 ug/l 100 90.7 38-127 3.93 32 4-Chloro-3-methylphenol 169 10.0 " 200 84.5 35-122 8.50 34 2-Chlorophenol 155 10.0 " 200 77.5 16-130 5.03 37 1,4-Dichlorobenzene 82.1 10.0 " 100 82.1 16-117 9.71 35 2,4-Dinitrotoluene 88.3 10.0 " 100 88.3 38-130 9.74 26 4-Nitrophenol 162 10.0 " 200 81.0 10-139 4.82 43 N-Nitrosodi-n-propylamine 82.6 10.0 " 100 82.6 36-130 7.28 34 Pentachlorophenol 200 10.0 " 200 78.0 10-143 6.81 37 Phenol 156 10.0 " 200 78.0 10-143 6.81 37		42.0									
Acenaphthene 90.7 10.0 ug/l 100 90.7 38-127 3.93 32 4-Chloro-3-methylphenol 169 10.0 " 200 84.5 35-122 8.50 34 2-Chlorophenol 155 10.0 " 200 77.5 16-130 5.03 37 1,4-Dichlorobenzene 82.1 10.0 " 100 82.1 16-117 9.71 35 2,4-Dinitrotoluene 88.3 10.0 " 100 88.3 38-130 9.74 26 4-Nitrophenol 162 10.0 " 200 81.0 10-139 4.82 43 N-Nitrosodi-n-propylamine 82.6 10.0 " 200 100 32-134 1.01 32 Pentachlorophenol 200 10.0 " 200 78.0 10-143 6.81 37 Phenol 156 10.0 " 200 78.0 10-143 6.81 37		49.7		"	50.0		99.4	50-135			
Acenaphthene 90.7 10.0 agr 10.0 <td>LCS Dup (0L06018-BSD1)</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2 00</td> <td>22</td> <td></td>	LCS Dup (0L06018-BSD1)	_							2 00	22	
4-Chloro-3-methylphenol 169 10.0 200 77.5 16-130 5.03 37 2-Chlorophenol 155 10.0 100 82.1 16-117 9.71 35 1,4-Dichlorobenzene 82.1 10.0 100 88.3 38-130 9.74 26 2,4-Dinitrotoluene 88.3 10.0 100 88.3 38-130 9.74 26 4-Nitrophenol 162 10.0 200 81.0 10-139 4.82 43 N-Nitrosodi-n-propylamine 82.6 10.0 100 82.6 36-130 7.28 34 Pentachlorophenol 200 10.0 200 100 32-134 1.01 32 Phenol 156 10.0 200 78.0 10-143 6.81 37	Acenaphthene										
2-Chlorophenol 193 10.0 " 100 82.1 16-117 9.71 35 24 26 24 27 200 81.0 10-139 4.82 43 200 10.0 " 100 82.6 36-130 7.28 34 200 10.0 " 200 10.0 " 200 10.0 " 200 10.1 32 200 10.0 " 200 10.1 32 200 10.0 " 200 78.0 10-143 6.81 37 24 26 200 10.0 " 200 78.0 10-143 6.81 37	4-Chloro-3-methylphenol	169	10.0								
1,4-Dichlorobenzene 82.1 10.0 100 88.3 38-130 9.74 26 2,4-Dinitrotoluene 88.3 10.0 200 81.0 10-139 4.82 43 4-Nitrophenol 82.6 10.0 100 82.6 36-130 7.28 34 N-Nitrosodi-n-propylamine 82.6 10.0 200 100 32-134 1.01 32 Pentachlorophenol 200 10.0 200 78.0 10-143 6.81 37 Phenol 156 10.0 200 78.0 10-143 6.81 37	2-Chlorophenol	155	10.0								
2,4-Dinitrotoluene 4-Nitrophenol 162 10.0 " 200 81.0 10-139 4.82 43 N-Nitrosodi-n-propylamine 82.6 10.0 " 100 82.6 36-130 7.28 34 Pentachlorophenol 200 10.0 " 200 100 32-134 1.01 32 Phenol 156 10.0 " 200 78.0 10-143 6.81 37		82.1	10.0	n							
4-Nitrophenol 162 10.0 " 200 81.0 10-139 4.82 43 N-Nitrosodi-n-propylamine 82.6 10.0 " 100 82.6 36-130 7.28 34 Pentachlorophenol 200 10.0 " 200 100 32-134 1.01 32 Phenol 156 10.0 " 200 78.0 10-143 6.81 37 Phenol 100 " 100 113 46-148 8-37 24	2,4-Dinitrotoluene	88.3	10.0	Ħ	100				-		
N-Nitrosodi-n-propylamine 82.6 10.0 " 100 82.6 36-130 7.28 34 Pentachlorophenol 200 10.0 " 200 100 32-134 1.01 32 Phenol 156 10.0 " 200 78.0 10-143 6.81 37		162	10.0	n	200		81.0	10-139			
Pentachlorophenol 200 10.0 " 200 100 32-134 1.01 32 Phenol 156 10.0 " 200 78.0 10-143 6.81 37 Phenol 100 112 46.148 8.37 24	•	82.6	10.0	н	100			36-130			
Phenol 156 10.0 " 200 78.0 10-143 6.81 37		200	10.0	**	200		100	32-134	1.01		
112 46 148 8 37 24	•	156	10.0	n	200		78.0	10-143	6.81		
	Pyrene			u	100		112	46-148	8.37	24	

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Portland

12100 NE 195th Street

Project Number: n/a

Reported:

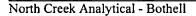
Bothell WA, 98011

Project Manager: Bryan Graham

12/21/00 15:55

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L06018: Prepared 12/06/00	Using El	PA 3520C/	600 Series							-
LCS Dup (0L06018-BSD1)	-									
1,2,4-Trichlorobenzene	87.4	10.0	ug/l	100		87.4	17-123	6.50	33	
Surrogate: 2-FP	38.6		н	50.0		77.2	10-108			<u>.</u>
Surrogate: Phenol-d6	<i>38.8</i>		"	50.0		77.6	10-126			
Surrogate: 2,4,6-TBP	44.6		"	50.0		89.2	15-145			
Surrogate: Nitrobenzene-d5	<i>37.3</i>		"	50.0		74.6	31-116			
Surrogate: 2-FBP	42.7		"	50.0		85.4	28-120			
Surrogate: p-Terphenyl-d14	52.0		"	50.0		104	50-135			



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

Γ			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L04010:	Prepared 12/04/00	Using E	PA 3550B								
Blank (0L04010-B)	LK1)										
Pentachlorophenol		ND	0.0500	mg/kg wet							
Surrogate: 2,4,6-TBP		1.38		"	1.67		82.6	30-150			
LCS (0L04010-BS))								_		
Pentachlorophenol		0.307	0.0500	mg/kg wet	0.667		46.0	30-150			
Surrogate: 2,4,6-TBP		1.34		"	1.67		80.2	30-150			
Matrix Spike (0L0	4010-MS1)					Source: I	30L0047-	07			
Pentachlorophenol		ND	0.500	mg/kg dry	0.798	ND	,	25-200			Q-02
Surrogate: 2,4,6-TBP		1.36		. "	2.00		68.0	30-150			
Matrix Spike Dup	(0L04010-MSD1)					Source: I	30L0047-	07			,
ichlorophenol	·	ND	0.500	mg/kg dry	0.798	ND		25-200		50	Q-02
ogate: 2,4,6-TBP		1.43		"	2.00		71.5	30-150		_	



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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project Number: n/a

Project: West Commodore Way Phase II

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC	222	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L04010: Prepared 12/04/00	Using El	PA 3550B	<u> </u>							
Blank (0L04010-BLK1)										
Acenaphthene	ND	0.0100	mg/kg wet							
Acenaphthylene	ND	0.0100	u							
Anthracene	ND	0.0100	Ħ							
Benzo (a) anthracene	ND	0.0100	D							
Benzo (a) pyrene	ND	0.0100	11							
Benzo (b) fluoranthene	ND	0.0100	n							
Benzo (ghi) perylene	ND	0.0100	11							
Benzo (k) fluoranthene	ND	0.0100	7							
Chrysene	ND	0.0100	H							
Dibenz (a,h) anthracene	ND	0.0100	•							
Fluoranthene	ND	0.0100	ti							
Fluorene	ND	0.0100	10							
Indeno (1,2,3-cd) pyrene	ND	0.0100	**							
Naphthalene	ND	0.0100	n							
Phenanthrene	ND	0.0100	n							
Pyrene	ND	0.0100	•							
Surrogate: 2-FBP	1.21		"	1.67		72.5	13-140			
Surrogate: Nitrobenzene-d5	1.55		"	1.67		92.8	10-136			
Surrogate: p-Terphenyl-d14	1.84		"	1.67		110	30-150			
LCS (0L04010-BS1)										
Chrysene	0.289	0.0100	mg/kg wet	0.333		86.8	51-124			
Fluorene	0.232	0.0100	n	0.333		69.7	35-141			
Indeno (1,2,3-cd) pyrene	0.271	0.0100	n	0.333		81.4	27-148			
Surrogate: 2-FBP	1.23		"	1.67		73.7	13-140			
Surrogate: Nitrobenzene-d5	1.57		"	1.67		94.0	10-136			
Surrogate: p-Terphenyl-d14	1.85		"	1.67		111	30-150			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/21/00 15:55

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L04010:	Prepared 12/04/00	Using El	PA 3550B								
Matrix Spike (0L04	010-MS1)					Source: I	B0L0047-	07			
Chrysene		1.78	0.100	mg/kg dry	0.399	1.29	123	15-147			
Fluorene		7.94	0.100	"	0.399	8.70	-190	21-153			Q-01
Indeno (1,2,3-cd) pyrei	ne	0.734	0.100	n	0.399	0.255	120	10-179			
Surrogate: 2-FBP	<u>, </u>	1.51		"	2.00		75.5	13-140			
Surrogate: Nitrobenzei	ne-d5	3.62		"	2.00		181	10-136		•	S-03
Surrogate: p-Terpheny		2.40		"	2.00		120	30-150			
Matrix Spike Dup (0L04010-MSD1)					Source: 1	B01.0047-	07			
Chrysene		1.66	0.100	mg/kg dry	0.399	1.29	92.7	15-147	6.98	37	·-·
Fluorene		8.95	0.100	n	0.399	8.70	62.7	21-153	12.0	38	
Indeno (1,2,3-cd) pyre	ne	0.671	0.100	11	0.399	0.255	104	10-179	8.97	53	
ogate: 2-FBP		1.64		11	2.00		82.0	13-140			
rogate: Nitrobenze	ne-d5	3.60		"	2.00		180	10-136			S-03
Surrogate: p-Terpheny		2.20		**	2.00		110	30-150			



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/21/00 15:55

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Spike Level	Result	%REC	%REC Limits	RPD	Limit	Notes	
Batch 0L04036:	Prepared 12/04/00	Using Dr	y Weight									
Blank (0L04036-Bl	LK1)	-									·	
Dry Weight		100	1.00	%				•	- -			- ;- ;
Batch 0L04037:	Prepared 12/04/00	Using Dr	y Weight		_ -		<u>. </u>					
Blank (0L04037-B)	LK1)				_							1
Dry Weight		100	1.00	%				•				i

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase Il

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/21/00 15:55

Notes and Definitions

A-01	Sample was lab filtered and digested as total. Run by EPA 6020 as per cl	ient.
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- Sample was lab filtered and prepared as Total run by 7470/7471 as per client A-01a
- Samples were field filtered then filtered in the lab and run as Total Pb by EPA 6020. A-01b
- Analyte detected in the method blank. В
- The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the Q-01 recovery for this analyte does not represent an out-of-control condition for the batch.
- The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference. Q-02
- Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. Q-05
- Multiple analyses indicate the percent recovery is outside the control limits due to a matrix effect.
- The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the R-03
- The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or S-01 matrix interferences.
 - The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for)3 this surrogate does not represent an out-of-control condition.
- Analyte DETECTED DET
- Analyte NOT DETECTED at or above the reporting limit ND
- NR Not Reported
- Sample results reported on a dry weight basis dry'
- Relative Percent Difference RPD



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FAX 420-9210 FAX 924-9290

(541) 383-9310

FAX 906-9210 FAX 382-7588

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 Work Order #: 21 MAT

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 16:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-06-5	B0K0448-01	Soil	11/15/00 12:00	11/15/00 18:20
SB-06-10	B0K0448-02	Soil	11/15/00 12:00	11/15/00 18:20
SB-06-15	B0K0448-03	Soil	11/15/00 12:00	11/15/00 18:20
SB-07-5	B0K0448-06	Soil	11/15/00 12:00	11/15/00 18:20
SB-07-10	B0K0448-07	Soil	11/15/00 12:00	11/15/00 18:20
SB-07-15	B0K0448-08	Soil	11/15/00 12:00	11/15/00 18:20
SB-08-5	B0K0448-11	Soil	11/15/00 12:00	11/15/00 18:20
SB-08-10	B0K0448-12	Soil	11/15/00 12:00	11/15/00 18:20
SB-08-15	B0K0448-13	Soil	11/15/00 12:00	11/15/00 18:20
SB-09-5	B0K0448-16	Soil	11/15/00 12:00	11/15/00 18:20
SB-09-10	B0K0448-17	Soil	11/15/00 12:00	11/15/00 18:20
SB-09-15	B0K0448-18	Soil	11/15/00 12:00	11/15/00 18:20
B-10-05	B0K0448-21	Soil	11/15/00 12:00	11/15/00 18:20
SB-10-10	B0K0448-22	Soil	11/15/00 12:00	11/15/00 18:20
SB-10-15	B0K0448-23	Soil	11/15/00 12:00	11/15/00 18:20
				

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12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 16:07

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-06-5 (B0K0448-01) Soil Sa	mpled: 11/15/00 12:0	0 Receive	d: 11/15/00	18:20					
Gasoline Range Hydrocarbons	10.6	5.00	mg/kg dry	1	0K20005	11/20/00	11/22/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	n	. "	Ħ	n	, п	
Toluene	ND	0.0500	n	Ħ	n	**	11	tr	ł
Ethylbenzene	ND	0.0500	n	77	n	**	n	11	1
Xylenes (total)	ND	0.100	n	11	**	n	*1	n	
Surrogate: 4-BFB (FID)	92.4 %	50-150		-	"	"	"	n	
Surrogate: 4-BFB (PID)	83.7 %	50-150			"	"	"	"	
SB-06-10 (B0K0448-02) Soil S	Sampled: 11/15/00 12:	00 Receiv	ed: 11/15/00	18:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K20005	11/20/00	11/21/00	NWTPH-Gx/8021B	1
Benzene	ND	0.0500	n	**	"	*1	Ħ	n	ł
Toluene	ND	0.0500	p	H	н .	11	11	n .	
Ethylbenzene	ND	0.0500	ıı	D	Ħ	II	11	11	
Xylenes (total)	ND	0.100		u	N	n	11	N	./ ^ `\ <u>\</u>
Surrogate: 4-BFB (FID)	80.5 %	50-150			"	"	"	"	``\
Surrogate: 4-BFB (PID)	81.9 %	50-150			"	"	"	"	
SB-06-15 (B0K0448-03) Soil S	Sampled: 11/15/00 12:	00 Receiv	ed: 11/15/00	18:20					_
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K20005	11/20/00	11/21/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	H	If	*1	11	**	н	;
Toluene	ND	0.0500	Ħ	ij	11	Ħ	n	**	,
Ethylbenzene	ND	0.0500	11	11	n	11	n	p	-
Xylenes (total)	ND	0.100	11	**	ıı	**	"	n n	
Surrogate: 4-BFB (FID)	90.8 %	50-150	-		"	"	"	"	
Surrogate: 4-BFB (PID)	85.7 %	50-150			"	"	"	n	١.

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 16:07

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-07-5 (B0K0448-06) Soil S	ampled: 11/15/00 12:00	Receive	d: 11/15/00 1	18:20					
Gasoline Range Hydrocarbons	1240	100	mg/kg dry	20	0K20005	11/20/00	11/21/00	NWTPH-Gx/8021B	
Benzene	2.17	1.00	н	"	n	n	11	n	
Toluene	ND	1.00	п	н	н	Ħ	ıı	"	
Ethylbenzene	7.58	1.00	"	P	n	11	n	n	
Xylenes (total)	18.2	2.00	"	**	19				
Surrogate: 4-BFB (FID)	475 %	50-150			"	"	"	"	S-06
Surrogate: 4-BFB (PID)	181 %	50-150			"	"	"	"	S-06
SB-07-10 (B0K0448-07) Soil	Sampled: 11/15/00 12:0	0 Receiv	ed: 11/15/00	18:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K20005	11/20/00	11/22/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	ıı	**	l7	11	p	n	
Toluene	ND	0.0500	11	n	11	17	n	11	
Ethylbenzene	ND	0.0500	n	D	н	n	н	n	
lenes (total)	ND	0.100	U	n		**	n		
rrogate: 4-BFB (FID)	82.4 %	50-150			**	"	"	n	
Surrogate: 4-BFB (PID)	80.9 %	50-150			"	**	"	n	
SB-07-15 (B0K0448-08) Soil	Sampled: 11/15/00 12:0	00 Receiv	ed: 1 <u>1/15/0</u> 0	18:20					
Gasoline Range Hydrocarbon	s 7.56	5.00	mg/kg dry	1	0K20005	11/20/00	11/21/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	н	h		17	n	u	
Toluene	ND	0.0500	n	v	n	**	n	h	
Ethylbenzene	ND	0.0500	п	n	11	n	U	n	
Xylenes (total)	ND	0.100	17		**		n	n	
Surrogate: 4-BFB (FID)	97.1 %	50-150			"	"	"	**	
Surrogate: 4-BFB (PID)	89.4 %	50-150			"	77	n	n	

orth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 16:07

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-08-5 (B0K0448-11) Soil Sa	mpled: 11/15/00 12:0) Receive	d: 11/15/00	18:20					
Gasoline Range Hydrocarbons	26.2	5.00	mg/kg dry	1	0K20005	11/20/00	11/22/00	NWTPH-Gx/8021B	G-01
Benzene	ND	0.0500	19	n	n	'n	n	11	
Toluene	ND	0.0500	17	II .	n	n	n	n	
Ethylbenzene	ND	0.0500	17	Ħ	n	li	n	Ħ	
Xylenes (total)	ND	0.100	n	Ħ	**	n	ti	n	
Surrogate: 4-BFB (FID)	103 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	91.2 %	50-150			"	"	"	"	
SB-08-10 (B0K0448-12) Soil S	Sampled: 11/15/00 12:	00 Receiv	ed: 11/15/00	18:20			_		
Gasoline Range Hydrocarbons	15.0	5.00	mg/kg dry	1	0K20005	11/20/00	11/22/00	NWTPH-Gx/8021B	G-0
Benzene	ND	0.0500	11	11	**	n	n	n	
Toluene	ND	0.0500	"	n	**	н	н	n	
Ethylbenzene	ND	0.0500	n	n	n	н	**	n	1
Xylenes (total)	ND	0.100	n	Ħ	p	н	**	п	,
Surrogate: 4-BFB (FID)	96.4 %	50-150			"	"	"	n	
Surrogate: 4-BFB (PID)	88.7 %	50-150			"	n	"	n	
SB-08-15 (B0K0448-13) Soil S	Sampled: 11/15/00 12:	00 Receiv	ed: 11/15/00	18:20					_
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K20005	11/20/00	11/21/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	"	11	n	n	ti	
Toluene	ND	0.0500	H	n	17	**	n	n .	
Ethylbenzene	ND	0.0500	n	*	11	Ħ	"	n	
Xylenes (total)	ND	0.100	11	ü	n	**	#	n	
Surrogate: 4-BFB (FID)	84.4 %	50-150		-	#	,,	ŋ	n	
Surrogate: 4-BFB (PID)	87.1 %	50-150			"	"	"	"	

North Creek Analytical - Bothell .

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 16:07

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Anglyta	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte				Dilation	- Daten	Теринев			
SB-09-5 (B0K0448-16) Soil Sample	d: 11/15/00 12:	00 Receive	d: 11/15/00 1	18:20					
Gasoline Range Hydrocarbons	17.1	5.00	mg/kg dry	1	0K20005	11/20/00	11/22/00	NWTPH-Gx/8021B	G-01
Benzene	ND	0.0500	11	11	"	п	n	n	
Toluene	ND	0.0500	11	н	11	n	tı	n	
Ethylbenzene	ND	0.0500	n	n	n	Ħ	11	IV	
Xylenes (total)	ND	0.100	n	17	n	n	n	n	
Surrogate: 4-BFB (FID)	97.3 %	50-150			"	,,	"	"	
Surrogate: 4-BFB (PID)	89.7 %	50-150			"	"	*	"	
SB-09-10 (B0K0448-17) Soil Sample	led: 11/15/00 12	2:00 Receiv	ed: 11/15/00	18:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K20005	11/20/00	11/21/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	ti	11	ts .	Ħ	Ħ	
Toluene	ND	0.0500	11	n	n	11	11	tt	
Ethylbenzene	ND	0.0500	n	n	n	n	11	n	
vlenes (total)	ND	0.100	n	**	11	ti	11		
rrogate: 4-BFB (FID)	97.1 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	86.7 %	50-150			"	"	"	"	
SB-09-15 (B0K0448-18) Soil Samp	led: 11/15/00 12	2:00 Receiv	ed: 11/15/00	18:20					_
Gasoline Range Hydrocarbons	8.99	5.00	mg/kg dry	1	0K20005	11/20/00	11/22/00	NWTPH-Gx/8021B	G-03
Benzene	ND	0.0500	u	**	11	n	u	11	
Toluene	ND	0.0500	н	n	Ħ	n	li	h	
Ethylbenzene	ND	0.0500	ır	n	н	н	ti	H	
Xylenes (total)	ND	0.100	n	ti	u	Ħ	**	n	
Surrogate: 4-BFB (FID)	94.8 %	50-150			"	11	"	n n	
Surrogate: 4-BFB (PID)	84.3 %	50-150			"	"	,,	"	

rth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/01/00 16:07

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-10-05 (B0K0448-21) Soil	Sampled: 11/15/00 12	2:00 Receiv	ed: 11/15/00	18:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K20005	11/20/00	11/21/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	77	n	19	**	n	1
Toluene	ND	0.0500	11	17	**	**	**	11	1
Ethylbenzene	ND	0.0500	n	17	17	11	11	н	
Xylenes (total)	ND	0.100	II	ù	17	n	n	71	_
Surrogate: 4-BFB (FID)	89.8 %	50-150		_	"	"	"	"	
Surrogate: 4-BFB (PID)	85.5 %	50-150			*	"	n	"	
SB-10-10 (B0K0448-22) Soil	Sampled: 11/15/00 12	2:00 Receiv	ed: 11/15/00	18:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K20005	11/20/00	11/21/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	**	ır	n	17	n	n .	,-
Toluene	ND	0.0500	n	11	n	11	11	n	
Ethylbenzene	ND	0.0500	II	n	n	n	n	n	, r [
Xylenes (total)	0.119	0.100	II .	n	n	n	11	Ħ	()
Surrogate: 4-BFB (FID)	96.3 %	50-150			"	"	"	"	· - ·
Surrogate: 4-BFB (PID)	90.7 %	50-150			"	"	"	"	
SB-10-15 (B0K0448-23) Soil	Sampled: 11/15/00 12	2:00 Receiv	ed: 11/15/00	18:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K20005	11/20/00	11/21/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	h	n	"	n	u	n	1
Toluene	ND	0.0500	tr		n	n	Ħ	n	1.
Ethylbenzene	ND	0.0500	H	**	**	**	н	w	
Xylenes (total)	ND	0.100	n	"	Ħ	#	H	11	í
Surrogate: 4-BFB (FID)	81.1 %	50-150			"	,, .	"	n	
Surrogate: 4-BFB (PID)	91.4 %	50-150			"	*	n	"	·

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Project Manager: Bryan Graham Bothell WA, 98011

12/01/00 16:07

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-06-5 (B0K0448-01) Soil S	Sampled: 11/15/00 12:0	0 Receive	d: 11/15/00	18:20	_				
Diesel Range Hydrocarbons	553	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbon	s 369	25.0	"	17		17		н	
Surrogate: 2-FBP	70.8 %	50-150			"	н	"	"	
SB-06-10 (B0K0448-02) Soil	Sampled: 11/15/00 12	:00 Receiv	ed: 11/15/00	18:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	n	li .	II	11	n	
Surrogate: 2-FBP	90.2 %	50-150			n	"	"	"	
SB-06-15 (B0K0448-03) Soil	Sampled: 11/15/00 12	:00 Receiv	ed: 11/15/00	18:20	<u> </u>	•		12.00	
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	17		. " <u> </u>	n n	" <u></u>	
Surrogate: 2-FBP	70.6 %	50-150	-			"	"	"	
3-07-5 (B0K0448-06) Soil S	Sampled: 1 <u>1/15/00</u> 12:	00 Receive	d: 11/15/00	18:20					
viesel Range Hydrocarbons	1190	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbon	rs 783	25.0		. н		11		",; 	
Surrogate: 2-FBP	%	50-150	, <u>, , , , , , , , , , , , , , , , , , </u>		"	. "	"	"	S-0.
Surrogate: Octacosane	57.3 %	50-150			,,	"	n	"	
SB-07-10 (B0K0448-07) Soil	Sampled: 11/15/00 12	:00 Receiv	ed: 11/15/00	18:20					٩.
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	.,		lt .	···		н	
Surrogate: 2-FBP	68.0 %	50-150			и,		"	"	
-	•	7							

orth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Portland

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/01/00 16:07

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		eporting	T T-:A-	Dilasian	Datab	D	A 1 3) (N I-4
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-07-15 (B0K0448-08) Soil	Sampled: 11/15/00 12:06	0 Receiv	ed: 11/15/00	18:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	*1	**	TI .	Ħ	n	
Surrogate: 2-FBP	94.2 % 5	0-150			"	"	"	"	
SB-08-5 (B0K0448-11) Soil S	Sampled: 11/15/00 12:00	Receive	d: 11/15/00	18:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	**	17	n	n	n	
Surrogate: 2-FBP	69.1 % 5	0-150		<u>-</u>	"	"	"	"	
SB-08-10 (B0K0448-12) Soil	Sampled: 11/15/00 12:0	0 Receiv	ed: 11/15/00	18:20					
Diesel Range Hydrocarbons	447	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	"	**	n	11	u	
Surrogate: 2-FBP	101 %	0-150			"	"	n	"	-
SB-08-15 (B0K0448-13) Soil	Sampled: 11/15/00 12:0	0 Receiv	ed: 11/15/00	18:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	ıı	Ħ	11	n	n	н	
Surrogate: 2-FBP	64.7 % 5	0-150			"	"	"	" '	
SB-09-5 (B0K0448-16) Soil S	Sampled: 11/15/00 12:00	Receive	d: 11/15/00	18:20					ſ
Diesel Range Hydrocarbons	30.2	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	11	<i>1</i> H	n	n	Ħ	"	•,
Surrogate: 2-FBP	87.7 % 5	0-150			"	"	"	"	
SB-09-10 (B0K0448-17) Soil	Sampled: 11/15/00 12:0	0 Receiv	ed: 11/15/00	18:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	11	Ħ	n	- n	n	
Surrogate: 2-FBP	85.4 % 5	0-150			"	"	"	n	

North Creek Analytical - Bothell

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Amar Oill, Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

12/01/00 16:07

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Project Manager: Bryan Graham

		eporting			D . 1	ъ .	41	Mathad	Notes
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-09-15 (B0K0448-18) Soil	Sampled: 11/15/00 12:00) Receiv	ed: 11/15/00	18:20		_			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	"	, n	n			ıı	
Surrogate: 2-FBP	86.7 % 5	0-150		_	"	11	"	"	
SB-10-05 (B0K0448-21) Soil	Sampled: 11/15/00 12:0	0 Receiv	ed: 11/15/00	18:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	p	U	"	n -		<u>.</u>	·
Surrogate: 2-FBP	69.3 %	0-150			"	"	"	"	
SB-10-10 (B0K0448-22) Soil	Sampled: 11/15/00 12:0	0 Receiv	ed: 11/15/00	18:20		· 			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	11	"	11	l1	n		
Surrogate: 2-FBP	80.9 %	50-150			"	"	"	"	
-10-15 (B0K0448-23) Soil	Sampled: 11/15/00 12:0	0 Receiv	ed: 11/15/00	18:20					
	ND	10.0	mg/kg dry	1	0K19004	11/19/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	H	11	"			n	
Surrogate: 2-FBP		50-150			"	n'	"	"	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reporting

Project Manager: Bryan Graham

Reported:

12/01/00 16:07

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-06-5 (B0K0448-01) Soil	Sampled: 11/15/00 12:00	Receive	d: 11/15/00	18:20					
Lead	8.64	0.301	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	
SB-06-10 (B0K0448-02) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 11/15/00	18:20					
Lead	3.58	0.251	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	_
SB-06-15 (B0K0448-03) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 11/15/00	18:20					
Lead	9.36	0.368	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	
SB-07-5 (B0K0448-06) Soil	Sampled: 11/15/00 12:00	Receive	d: 11/15/00	18:20					
Lead	8.33	0.276	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	
SB-07-10 (B0K0448-07) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 11/1 <u>5/</u> 00	18:20					
Lead	9.81	0.357	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	-
SB-07-15 (B0K0448-08) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 11/15/00	18:20					_
Lead	9.54	0.270	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	
SB-08-5 (B0K0448-11) Soil	Sampled: 11/15/00 12:00	Receive	d: 11/15/00	18:20					
Lead	9.52	0.340	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	
SB-08-10 (B0K0448-12) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 11/15/00	18:20					
Lead	8.34	0.370	mg/kg dry	· 1	0K27017	11/27/00	11/28/00	EPA 6020	-
SB-08-15 (B0K0448-13) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 11/15/00	18:20					
Lead	9.44	0.303	mg/kg dry	I	0K27017	11/27/00	11/28/00	EPA 6020	

North Creek Analytical - Bothell

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Project: West Commodore Way Phase II

12100 NE 195th Street

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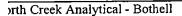
Bothell WA, 98011

Project Manager: Bryan Graham

12/01/00 16:07

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Re	porting							
Analyte	Result	Limit	Units	Dilution 	Batch	Prepared	Analyzed	Method	Notes
SB-09-5 (B0K0448-16) Soil	Sampled: 11/15/00 12:00	Receive	d: 11/15/00 1	18:20	<u></u>				
Lead	7.88	0.282	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	
SB-09-10 (B0K0448-17) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 11/15/00	18:20					
Lead	7.28	0.318	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	
SB-09-15 (B0K0448-18) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 1 <u>1/15/00</u>	18:20					
Lead	4.17	0.350	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	
SB-10-05 (B0K0448-21) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 11/15/00	18:20				<u> </u>	
Lead	3.37	0.362	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	
SB-10-10 (B0K0448-22) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 11/15/00	18:20					
Lead	9.63	0.303	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	
SB-10-15 (B0K0448-23) Soil	Sampled: 11/15/00 12:00	Receiv	ed: 11/15/00	18:20					
ad	2.34	0.262	mg/kg dry	1	0K27017	11/27/00	11/28/00	EPA 6020	





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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 16:07

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-06-5 (B0K0448-01) Soil	Sampled: 11/15/00 12:	00 Receive	d: 11/15/00 1	18:20]
Pentachlorophenol	ND	0.250	mg/kg dry	5	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	101 %	30-150		-	"	"	"	tt	1
SB-06-10 (B0K0448-02) Soil	Sampled: 11/15/00 12	:00 Receiv	ed: 11/15/00	18:20					i
Pentachlorophenol	0.0548	0.0500	mg/kg dry	1	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	61.1 %	30-150			, "	"	"	"	. i
SB-06-15 (B0K0448-03) Soil	Sampled: 11/15/00 12	2:00 Receiv	ed: 11/15/00	18:20					!_
Pentachlorophenol	0.0548	0.0500	mg/kg dry	1	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	86.5 %	30-150			"	,,	"	"	1
SB-07-5 (B0K0448-06) Soil	Sampled: 11/15/00 12:	00 Receive	d: 11/15/00	18:20					
Pentachlorophenol	ND	0.250	mg/kg dry	5	0K21022	11/21/00	11/29/00	GCMS-SIM	_
Surrogate: 2,4,6-TBP	82.4 %	30-150	-	•	,,	- "	η.	"	
SB-07-10 (B0K0448-07) Soil	Sampled: 11/15/00 12	2:00 Receiv	ed: 11/15/00	18:20					
Pentachlorophenol	ND	0.250	mg/kg dry	5	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	90.7 %	30-150		_	"	"	"	"	i
SB-07-15 (B0K0448-08) Soil	Sampled: 11/15/00 12	2:00 Receiv	ed: 11/15/00	18:20					
Pentachlorophenol	0.0572	0.0500	mg/kg dry	1	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	75.1 %	30-150			"	"	"	"	
SB-08-5 (B0K0448-11) Soil	Sampled: 11/15/00 12:	00 Receive	d: 11/15/00	18:20					
Pentachlorophenol	0.0560	0.0500	mg/kg dry	1	0K21022	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	47.5 %	30-150	 _		"	"	"	"	

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Project: West Commodore Way Phase Il

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/01/00 16:07

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-06-5 (B0K0448-01) Soil	Sampled: 11/15/00 12:00	Received	: 11/15/00	18:20					
Dry Weight	80.5	1.00	%	1	0K20046	11/20/00	11/21/00	BSOPSPL003R07	
SB-06-10 (B0K0448-02) Soil	Sampled: 11/15/00 12:00	Receive	d: 11/15/00	0 18:20					
Dry Weight	80.3	1.00	%	1	0K20046	11/20/00	11/21/00	BSOPSPL003R07	
SB-06-15 (B0K0448-03) Soil	Sampled: 11/15/00 12:00	Receive	d: 1 <u>1/15/0</u> 0	0 18:20					
Dry Weight	80.4	1.00	%	1	0K20046	11/20/00	11/21/00	BSOPSPL003R07	
SB-07-5 (B0K0448-06) Soil	Sampled: 11/15/00 12:00	Received	l: 11/15/00	18:20					
Dry Weight	91.8	1.00	%	1	0K20046	11/20/00	11/21/00	BSOPSPL003R07	
SB-07-10 (B0K0448-07) Soil	Sampled: 11/15/00 12:00	Receive	ed: 11/1 <u>5/0</u>	0 18:20					
Dry Weight	77.4	1.00	%	1	0K20046	11/20/00	11/21/00	BSOPSPL003R07	
SB-07-15 (B0K0448-08) Soil	Sampled: 11/15/00 12:00	Receive	ed: 11/15/0	0 18:20					
y Weight	77.0	1.00	%	1	0K20046	11/20/00	11/21/00	BSOPSPL003R07	
-08-5 (B0K0448-11) Soil	Sampled: 11/15/00 12:00	Received	l: 11/15/00	18:20					
Dry Weight	. 76.2	1.00	%	1	0K20046	11/20/00	11/21/00	BSOPSPL003R07	
SB-08-10 (B0K0448-12) Soil	Sampled: 11/15/00 12:00	Receive	ed: 11/15/0	0 18:20					
Dry Weight	79.5	1.00	%	1	0K20046	11/20/00	11/21/00	BSOPSPL003R07	
SB-08-15 (B0K0448-13) Soil	Sampled: 11/15/00 12:00	Receive	ed: 11/15/0	0 18:20					
Dry Weight	79.2	1.00	%	1	0K20046	11/20/00	11/21/00	BSOPSPL003R07	
-									

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Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/01/00 16:07

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-09-5 (B0K0448-16) Soil	Sampled: 11/15/00 12:00	Received	l: 11/15/00	18:20					
Dry Weight	82.2	1.00	%	I	0K20047	11/20/00	11/21/00	BSOPSPL003R07	_
SB-09-10 (B0K0448-17) Soil	Sampled: 11/15/00 12:00	Receive	d: 11/15/0	0 18:20					
Dry Weight	81.8	1.00	%	1	0K20047	11/20/00	11/21/00	BSOPSPL003R07	ì.
SB-09-15 (B0K0448-18) Soil	Sampled: 11/15/00 12:00	Receive	d: 11/15/0	0 18:20					
Dry Weight	83.6	1.00	%	1	0K20047	11/20/00	11/21/00	BSOPSPL003R07	;
SB-10-05 (B0K0448-21) Soil	Sampled: 11/15/00 12:00	Receive	d: 11/15/0	0 18:20					<u>'</u>
Dry Weight	85.3	1.00	%	1	0K20047	11/20/00	11/21/00	BSOPSPL003R07	- !
SB-10-10 (B0K0448-22) Soil	Sampled: 11/15/00 12:00	Receive	ed: 11/15/0	0 18:20					
Dry Weight	78.7	1.00	%	1	0K20047	11/20/00	11/21/00	BSOPSPL003R07	
SB-10-15 (B0K0448-23) Soil	Sampled: 11/15/00 12:00	Receive	d: 11/15/0	0 18:20					ì
Dry Weight	84.0	1.00	%	1	0K20047	11/20/00	11/21/00	BSOPSPL003R07	· L

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Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

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Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

		Reporting	** *.	Spike	Source	A/DEC	%REC	nnn	RPD	21.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K20005: Prepared 11/20/00	Using E	PA 5030B	(MeOH)							
Blank (0K20005-BLK1)										
Gasoline Range Hydrocarbons	ND	5.00	mg/kg wet							•
Benzene	ND	0.0500	и							
Toluene	ND	0.0500	n							
Ethylbenzene	ND	0.0500	n							
Xylenes (total)	ND	0.100	n							
Surrogate: 4-BFB (FID)	4.12			4.00		103	50-150			
Surrogate: 4-BFB (PID)	3.79		"	4.00		94.7	50-150			
LCS (0K20005-BS1)										
Gasoline Range Hydrocarbons	22.1	5.00	mg/kg wet	25.0		88.4	70-130			
Surrogate: 4-BFB (FID)	4.31		"	4.00		108	50-150			
plicate (0K20005-DUP1)					Source: 1	B0K0448-	06			
Gasoline Range Hydrocarbons	1130	100	mg/kg dry	-	1240		· · · · · · · · · · · · · · · · · · ·	9.28	50	
Surrogate: 4-BFB (FID)	20.2		"	4.36		463	50-150			S-0
Duplicate (0K20005-DUP2)					Source: 1	B0K0448-	21			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND	,		22.1	50	
Surrogate: 4-BFB (FID)	4.32		"	4.69		92.1	50-150		_	
Matrix Spike (0K20005-MS1)					Source:	B0K0448-	02			
Benzene	0.466	0.0500	mg/kg dry	0.623	ND	73.6	60-140			
Toluene	0.458	0.0500	**	0.623	ND	70.9	60-140			
Ethylbenzene	0.482	0.0500	**	0.623	ND	75.3	60-140			
Xylenes (total)	1.47	0.100	Ħ	1.87	ND	75.5	60-140			
Surrogate: 4-BFB (PlD)	4.04		"	4.98		81.1	50-150			
Matrix Spike Dup (0K20005-MSD1)					Source:	B0K0448-	-02		•	
Benzene	0.501	0.0500	mg/kg dry	0.623	ND	79.2	60-140	7.24	20	
Toluene	0.503	0.0500	11	0.623	ND	78.1	60-140	9.37	20	
Ethylbenzene	0.520	0.0500	11	0.623	ND	81.4	60-140	7.58	20	
Xylenes (total)	1.60	0.100	17	1.87	ND	82.5	60-140	8.47	20	
Surrogate: 4-BFB (PID)	4.09		"	4.98		82.1	50-150			
• ,										

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Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 16:07

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte	•	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K19004:	Prepared 11/19/00	Using El	PA 3550B				_				
Blank (0K19004-Bl	LK1)								_		
Diesel Range Hydroca	rbons	ND	10.0	mg/kg wet							
Lube Oil Range Hydro	carbons	ND	25.0	ır							
Surrogate: 2-FBP		6.39		"	10.7		59.7	50-150	-		
LCS (0K19004-BS)	1)			_						,	
Diesel Range Hydroca	rbons	57.8	10.0	mg/kg wet	66.7		86.7	60-140			
Surrogate: 2-FBP		9.21		n	10.7	-	86.1	50-150			
Duplicate (0K1900	4-DUP1)					Source: 1	B0K0448-	21			
Diesel Range Hydroca	rbons	ND	10.0	mg/kg dry		ND				50	
Lube Oil Range Hydro	carbons	ND	25.0	н		ND			42.3	50	
Surrogate: 2-FBP		7.95		"	12.5		63.6	50-150			
Duplicate (0K1900	4-DUP2)					Source:	B0K0448-	23	_		
Diesel Range Hydroca	rbons	ND	10.0	mg/kg dry		ND				50	·
Lube Oil Range Hydro	ocarbons	ND	25.0	n		ND			6.45	50	
Surrogate: 2-FBP	· · · · · · · · · · · · · · · · · · ·	11.2		"	12.7		88.2	50-150	-		_

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Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

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Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K27017: Pre	pared 11/27/00	Using	EPA 3050B								
Blank (0K27017-BLK1)	-						_	_			
Lead		ND	0.500	mg/kg wet							
LCS (0K27017-BS1)						_					
Lead		2.45	0.500	mg/kg wet	2.50	_	98.0	80-120			
Matrix Spike (0K27017-7	MS1)					Source: 1	B0K0448-	01			
Lead		10.3	0.309	mg/kg dry	1.92	8.64	86.5	70-130			
Matrix Spike Dup (0K27	017-MSD1)					Source: 1	B0K0448-	01			
Lead	<u></u>	10.5	0.312	mg/kg dry	1.94	8.64	95.9	70-130	1.92	20	



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Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/01/00 16:07

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K21022: Prepared 11/21/0	0 Using E	PA 3550B	3						<u>-</u>	
Blank (0K21022-BLK1)										
Pentachlorophenol	ND	0.0500	mg/kg wet	_			-			
Surrogate: 2,4,6-TBP	1.47		**	1.67		88.0	30-150			
LCS (0K21022-BS1)										
Pentachlorophenol	0.524	0.0500	mg/kg wet	0.667		78.6	30-150			
Surrogate: 2,4,6-TBP	1.47		,,	1.67		88.0	30-150			
Matrix Spike (0K21022-MS1)					Source: 1	30K0448-	01			
Pentachlorophenol	0.774	0.250	mg/kg dry	0.828	ND	93.5	25-200	-		
Surrogate: 2,4,6-TBP	2.02		"	2.07		97.6	30-150	•		
Matrix Spike Dup (0K21022-MSD1)					Source: 1	B0K0448-	01			/-
Pentachlorophenol	0.733	0.250	mg/kg dry	0.828	ND	88.5	25-200	5.44	50	
Surrogate: 2,4,6-TBP	1.87		"	2.07		90.3	30-150			

North Creek Analytical - Bothell

Amar Gill, Project Manager

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project Number: n/a

Project: West Commodore Way Phase II

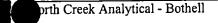
Project Manager: Bryan Graham

Reported: 12/01/00 16:07

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

North Creek Analytical - Bothell

,	Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
;	Batch 0K20046:	Prepared 11/20/00	Using Dr	y Weight								
ţ	Blank (0K20046-BI	LK1)	100	1.00	%							
1	Batch 0K20047:	Prepared 11/20/00	Using Dr	y Weight								
	Blank (0K20047-Bl	LK1)									-	
ì	Dry Weight		100	1.00	%							



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 **Portland** 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

12/01/00 16:07

Notes and Definitions

Project Manager: Bryan Graham

Results reported for the gas range are primarily due to overlap from diesel range hydrocarbons. G-01

The total hydrocarbon result in this sample is primarily due to an individual compound eluting in the volatile hydrocarbon range. G-03

Identification and quantitation by EPA method 8021B or 8260B is recommended.

Due to interference from coeluting organic compounds with the primary surrogate, results of the secondary surrogate have been S-05

used to control the analysis.

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06

matrix interferences.

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

North Creek Analytical - Bothell

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Project Manager



OC REV 3/99

FAX 382-7588

North Creek Analytic Environmental Labor										20332	Empire.						አያ-9510 1747.50 አሄል) <u>2</u> -1300	
www.ncalabs.com	-	CHA	IN C)F (CUS	OT	DY I	REP	OR	\mathbf{T}		V	Vork O	rder	#: }	30KD4	148		
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FAX 420-9210 (425) 420-9200 (509) 924-9200 FAX 924-9290 (503) 906-9200 FAX 906-9210

(541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

12/19/00 13:22

ANALYTICAL REPORT FOR SAMPLES

Project Manager: Bryan Graham

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01	B0L0091-01	Soil	12/04/00 14:40	12/05/00 12:45
SS-02	B0L0091-02	Soil	12/04/00 14:47	12/05/00 12:45
SS-03	B0L0091-03	Soil	12/04/00 14:55	12/05/00 12:45
SS-04	B0L0091-04	Soil	12/04/00 14:43	12/05/00 12:45
TRIP	B0L0091-05	Water	12/05/00 07:30	12/05/00 12:45
01MW-12	B0L0091-06	Water	12/05/00 08:15	12/05/00 12:45
01MW-13	B0L0091-07	Water	12/05/00 07:45	12/05/00 12:45



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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/19/00 13:22

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

 -		Reporting			-				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
TRIP (B0L0091-05) Water Sa	mpled: 12/05/00 07:30	Received	: 12/05/00	12:45					
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	0L10004	12/10/00	12/10/00	NWTPH-Gx/8021B	
Benzene	ND	0.500	11	n	11	n	11	71	
Toluene	ND	0.500	n	Ir	11	n	h	π	
Ethylbenzene	ND	0.500	"	11	н	**	11	n	
Xylenes (total)	ND	1.00	Ħ	11	lt.	u	Ħ	n	
Surrogate: 4-BFB (FID)	97.9 %	50-150			- 11	"	**	"	
Surrogate: 4-BFB (PID)	104 %	50-150			n	**	"	"	
01MW-12 (B0L0091-06) Water	Sampled: 12/05/00 (8:15 Rec	eived: 12/0	5/00 12:45					
Gasoline Range Hydrocarbons	802	50.0	ug/l	1	0L10004	12/10/00	12/10/00	NWTPH-Gx/8021B	
Benzene	98.4	0.500	"	11		"	,	n	
Foluene	11.0	0.500	"	n	n	n	ti	н	
Ethylbenzene	17.4	0.500	n	11	n	**	ti	Ħ	
Xylenes (total)	24.6	1.00	н	*1	h	n	*	Ħ	1
Surrogate: 4-BFB (FID)	99.8 %	50-150	•		"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	50-150			n	"	"	n	
01MW-13 (B0L0091-07) Water	Sampled: 12/05/00	7:45 Rec	eived: 12/0	5/00 12:45				·	
Gasoline Range Hydrocarbons	254	50.0	ug/l	1	0L10004	12/10/00	12/10/00	NWTPH-Gx/8021B	
Benzene	ND	0.500	**	n	**	n	n	**	
Foluene	0.694	0.500	n	n	,,	"	**	n	
Ethylbenzene	ND	0.817	n	n	n	p		Ħ	R-0
Xylenes (total)	ND	1.23	h	**	н	n		n	R-0
Surrogate: 4-BFB (FID)	112 %	50-150			"	"	"	и .	
Surrogate: 4-BFB (PID)	106 %	50-150			,,	,,	,,	**	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a Project Manager: Bryan Graham Reported:

12/19/00 13:22

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-12 (B0L0091-06) Water	Sampled: 12/05/0	0 08:15 Rece	ived: 12/0	5/00 12:45					
Diesel Range Hydrocarbons	6.48	0.250	mg/l	1	0L09003	12/09/00	12/10/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	n	n	**	17	n	н	
Surrogate: 2-FBP	78.9 %	50-150	_		11	"	n	"	
Surrogate: Octacosane	84.5 %	. 50-150			"	"	"	"	
01MW-13 (B0L0091-07) Water	Sampled: 12/05/0	0 07:45 Rece	eived: 12/0	5/00 12:45					
Diesel Range Hydrocarbons	3.94	0.250	mg/l	1	0L09003	12/09/00	12/10/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	0.513	0.500	10		n)ı 	** <u></u>	
Surrogate: 2-FBP	82.2 %	50-150			"	"	"	"	
Surrogate: Octacosane	89.8 %	50-150		-	"	n	"	"	



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/19/00 13:22

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-12 (B0L0091-06) Water	Sampled: 12/05/00	0 08:15 Reco	eived: 12/0	5/00 12:45					A-01
Lead	ND	0.00100	mg/l	1	0L12014	12/12/00	12/14/00	EPA 6020	
01MW-13 (B0L0091-07) Water	Sampled: 12/05/00	0 07:45 Reco	eived: 12/0	5/00 12:45					A-01
Lead	ND	0.00100	mg/l	1	0L12014	12/12/00	12/14/00	EPA 6020	

North Creek Analytical - Bothell

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12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/19/00 13:22

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-01 (B0L0091-01) Soil	Sampled: 12/04/00 14:40	Received:	12/05/00 12:4	5					
Pentachlorophenol	3.87	2.50	mg/kg dry	50	0L07001	12/07/00	12/08/00	GCMS-SIM	Q-18
Surrogate: 2,4,6-TBP	59.7 %	30-150			"	"	"	n	_
SS-02 (B0L0091-02) Soil	Sampled: 12/04/00 14:47	Received:	12/05/00 12:4	5					
Pentachlorophenol	ND	1.25	mg/kg dry	25	01.07001	12/07/00	12/08/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	49.9 %	30-150			н	,,	"	"	
SS-03 (B0L0091-03) Soil	Sampled: 12/04/00 14:55	Received:	12/05/00 12:4	5				- 	
Pentachlorophenol	ND	2.50	mg/kg dry	50	0L07001	12/07/00	12/08/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	62.1 %	30-150			"	"	n	"	
SS-04 (B0L0091-04) Soil	Sampled: 12/04/00 14:43	Received:	12/05/00 12:4	15					
Pentachlorophenol	ND	0.500	mg/kg dry	10	0L07001	12/07/00	12/08/00	GCMS-SIM	
ogate: 2,4,6-TBP	71.1 %	30-150			,,	"	"	"	



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham

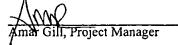
Reported: 12/19/00 13:22

Carcinogenic Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

SS-01 (B0L0091-01) Soil Sampled: 12/04/00 14:40 Received: 12/05/00 12:45	Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) pyrene	SS-01 (B0L0091-01) Soil	Sampled: 12/04/00 14:40	Received:	12/05/00 12:	45					
Benzo (b) fluoranthene ND 0.500 "	Benzo (a) anthracene	ND	0.500	mg/kg dry	50	0L07001	12/07/00	12/08/00	GCMS-SIM	,
Benzo (k) fluoranthene	Benzo (a) pyrene	ND	0.500	"	Ħ	11	ri	n	H	ſ
Chrysene ND 0.500 "	Benzo (b) fluoranthene	ND	0.500	H	71	H	n	11	11	(
Dibenz (a,h) anthracene	Benzo (k) fluoranthene	ND	0.500	n	71	n	n	n	m	i
Indeno (1,2,3-cd) pyrene	Chrysene	ND	0.500	11	71	u	n	н	"	r
Surrogate: 2-FBP 57.7 % 13-140 " " " " " " " Surrogate: Nitrobenzene-d5 41.9 % 10-138 " " " " " " " " Surrogate: p-Terphenyl-d14 102 % 19-137 " " " " " " " " SS-02 (B0L0091-02) Soil Sampled: 12/04/00 14:47 Received: 12/05/00 12:45 Benzo (a) anthracene ND 0.250 mg/kg dry 25 0L07001 12/07/00 12/08/00 GCMS-SIM Benzo (a) pyrene ND 0.250 " " " " " " " " " " Benzo (b) fluoranthene ND 0.250 " " " " " " " " " " Benzo (k) fluoranthene ND 0.250 " " " " " " " " " " Chrysene ND 0.250 " " " " " " " " " " " Dibenz (a,h) anthracene ND 0.250 " " " " " " " " " " " Indeno (1,2,3-cd) pyrene ND 0.250 " " " " " " " " " " " " Surrogate: Nitrobenzene-d5 32.0 % 10-138 " " " " " " " " " " Surrogate: P-Terphenyl-d14 105 % 19-137 19-137 " " " " " " " " " Senzo (a) anthracene ND 0.500 " " " " " " " " " " " " " " " " Benzo (a) pyrene ND 0.500 " " " " " " " " " " " " " " " " " "	Dibenz (a,h) anthracene	ND	0.500	**	**	n	17	H	Ħ	1
Surrogate: Nitrobenzene-d5	Indeno (1,2,3-cd) pyrene	ND	0.500	Ħ	n	Ħ	Ħ	n	н	,
Surrogate: Nitrobenzene-d5 41.9 % 10-138	Surrogate: 2-FBP	57.7 %	13-140			"	"	"	"	
SS-02 (B0L0091-02) Soil Sampled: 12/04/00 14:47 Received: 12/05/00 12:45	_	41.9 %	10-138			n	"	"	,,	ĺ
Benzo (a) anthracene ND 0.250 mg/kg dry 25 0L07001 12/07/00 12/08/00 GCMS-SIM Benzo (a) pyrene ND 0.250 " " " " " " " " " " " " " " " " " " "	Surrogate: p-Terphenyl-d14	102 %	19-137			"	"	"	"	,
Benzo (a) pyrene ND 0.250 " " " " " " " " " " " Benzo (b) fluoranthene ND 0.250 " " " " " " " " " " " " " " " " " " "	SS-02 (B0L0091-02) Soil	Sampled: 12/04/00 14:47	Received:	12/05/00 12:	45					•
Benzo (b) fluoranthene Benzo (k) fluoranthene ND 0.250 " " " " " " " " " " " " " " " " " " "	Benzo (a) anthracene	ND	0.250	mg/kg dry	25	0L07001	12/07/00	12/08/00	GCMS-SIM	
Benzo (k) fluoranthene	Benzo (a) pyrene	. ND	0.250	**	,	H	H	*	11	,
Chrysene ND 0.250 " " " " " " " " " " " " " " " " " " "	Benzo (b) fluoranthene	ND	0.250	n	ħ	11	н	n	n	
Dibenz (a,h) anthracene	Benzo (k) fluoranthene	ND	0.250	n	11	n	n	"	n	
Indeno (1,2,3-cd) pyrene ND 0.250 "	Chrysene	ND	0.250	71	77	H	**	**	n	į
Surrogate: 2-FBP 52.8 % 13-140 " " " " " " " Surrogate: Nitrobenzene-d5 32.0 % 10-138 " " " " " " " " " " " " " " " " " " "	Dibenz (a,h) anthracene	• ND	0.250	n	*	n	n	Ħ	11	i
Surrogate: Nitrobenzene-d5 32.0 % 10-138 " " " " " " " " Surrogate: p-Terphenyl-d14 105 % 19-137 " " " " " " " " SS-03 (B0L0091-03) Soil Sampled: 12/04/00 14:55 Received: 12/05/00 12:45 Benzo (a) anthracene ND 0.500 mg/kg dry 50 0L07001 12/07/00 12/08/00 GCMS-SIM Benzo (a) pyrene ND 0.500 " " " " " " " " " " " Benzo (b) fluoranthene ND 0.500 " " " " " " " " " " Benzo (k) fluoranthene ND 0.500 " " " " " " " " " " " Chrysene ND 0.500 " " " " " " " " " " " " Dibenz (a,h) anthracene ND 0.500 " " " " " " " " " " " " Indeno (1,2,3-cd) pyrene ND 0.500 " " " " " " " " " " " " Surrogate: 2-FBP 60.2 % 13-140 " " " " " " " " " Surrogate: Nitrobenzene-d5 44.1 % 10-138	Indeno (1,2,3-cd) pyrene	ND	0.250	**	**	Ħ	79	19	Ħ	
Surrogate: p-Terphenyl-d14 105 % 19-137 " " " " " " " SS-03 (B0L0091-03) Soil Sampled: 12/04/00 14:55 Received: 12/05/00 12:45 Benzo (a) anthracene ND 0.500 mg/kg dry 50 0L07001 12/07/00 12/08/00 GCMS-SIM Benzo (a) pyrene ND 0.500 " " " " " " " " " " Benzo (b) fluoranthene ND 0.500 " " " " " " " " " " Benzo (k) fluoranthene ND 0.500 " " " " " " " " " " " Chrysene ND 0.500 " " " " " " " " " " " Dibenz (a,h) anthracene ND 0.500 " " " " " " " " " " " Indeno (1,2,3-cd) pyrene ND 0.500 " " " " " " " " " " " Surrogate: 2-FBP 60.2 % 13-140 " " " " " " " " " " Surrogate: Nitrobenzene-d5 44.1 % 10-138 " " " " " " " " " " "	Surrogate: 2-FBP	52.8 %	13-140			"	"	"	"	
SS-03 (B0L0091-03) Soil Sampled: 12/04/00 14:55 Received: 12/05/00 12:45 Benzo (a) anthracene ND 0.500 mg/kg dry 50 0L07001 12/07/00 12/08/00 GCMS-SIM Benzo (a) pyrene ND 0.500 " " " " " " " " " " " " " " " " " "	Surrogate: Nitrobenzene-d5	32.0 %	10-138			"	"	"	"	1_
Benzo (a) anthracene ND 0.500 mg/kg dry 50 0L07001 12/07/00 12/08/00 GCMS-SIM Benzo (a) pyrene ND 0.500 " " " " " " " " " " Benzo (b) fluoranthene ND 0.500 " " " " " " " " " " Benzo (k) fluoranthene ND 0.500 " " " " " " " " " Chrysene ND 0.500 " " " " " " " " " " Dibenz (a,h) anthracene ND 0.500 " " " " " " " " " " Indeno (1,2,3-cd) pyrene ND 0.500 " " " " " " " " " " Surrogate: 2-FBP 60.2 % 13-140 " " " " " " " " " " Surrogate: Nitrobenzene-d5 44.1 % 10-138 " " " " " " " " " "	Surrogate: p-Terphenyl-d14	105 %	19-137			"	,,	"	"	
Benzo (a) pyrene ND 0.500 " " " " " " " " " " Benzo (b) fluoranthene ND 0.500 " " " " " " " " " " " " " " " " " "	SS-03 (B0L0091-03) Soil	Sampled: 12/04/00 14:55	Received:	12/05/00 12:	45					Į.
Benzo (b) fluoranthene ND 0.500 " " " " " " " " " " " " " " " " " "	Benzo (a) anthracene	ND	0.500	mg/kg dry	50	0L07001	12/07/00	12/08/00	GCMS-SIM	
Benzo (k) fluoranthene ND 0.500 "	Benzo (a) pyrene	ND	0.500	н		n	"	ti .	n	
Chrysene ND 0.500 " <	Benzo (b) fluoranthene	ND	0.500	**	n	**	p	"	n	;
Dibenz (a,h) anthracene ND 0.500 " <th< td=""><td>Benzo (k) fluoranthene</td><td>ND</td><td>0.500</td><td>77</td><td>b</td><td>**</td><td>u u</td><td>**</td><td>H</td><td>3</td></th<>	Benzo (k) fluoranthene	ND	0.500	77	b	**	u u	**	H	3
Indeno (1,2,3-cd) pyrene ND 0.500 "	Chrysene	ND	0.500	Ħ	n	n	n.	n	n	
Surrogate: 2-FBP 60.2 % 13-140 " " " " " Surrogate: Nitrobenzene-d5 44.1 % 10-138 " " " " " "	Dibenz (a,h) anthracene	ND	0.500	Ħ	Ħ	Ħ	n	п	n	
Surrogate: Nitrobenzene-d5 44.1 % 10-138 " " " "	Indeno (1,2,3-cd) pyrene	ND	0.500	n	ti	**	Ħ	**	n	1
Surrogate: Nitrobenzene-d5 44.1 % 10-138 " " " " "	Surrogate: 2-FBP	60.2 %	13-140			"	"	n	"	
	_	44.1 %	10-138			"	,,	n	n	4
	•		19-137			"	"	"	"	1

North Creek Analytical - Bothell

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541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Bend

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/19/00 13:22

Carcinogenic Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-04 (B0L0091-04) Soil	Sampled: 12/04/00 14:43	Received:	12/05/00 12:	45					
Benzo (a) anthracene	1.63	0.100	mg/kg dry	10	0L07001	12/07/00	12/08/00	GCMS-SIM	
Benzo (a) pyrene	1.71	0.100	11	11	**	**	11	ti	
Benzo (b) fluoranthene	2.13	0.100	,,	II.	p	и	"	lT .	
Benzo (k) fluoranthene	0.760	0.100	**	н	"	**	n	**	
Chrysene	1.93	0.100	n	н	и	n	**	n	
Dibenz (a,h) anthracene	ND	0.100	11	n	u	**	•	u ,	
Indeno (1,2,3-cd) pyrene	1.05	0.100	n	n	**	<u>.</u>	n 		
Surrogate: 2-FBP	75.0 %	13-140			"	н	"	*	
Surrogate: Nitrobenzene-d.	5 67.2 %	10-138			"	"	"	"	
Surrogate: p-Terphenyl-dl		19-137			"	"	**	"	

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Portland

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Bend

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/19/00 13:22

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units		Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-01 (B0L0091-01) Soil	Sampled: 12/04/00 14:40	Received:	12/05/00	12:45		·			_ .	
Dry Weight	85.2	1.00	%		1	0L06033	12/06/00	12/07/00	BSOPSPL003R07	
SS-02 (B0L0091-02) Soil	Sampled: 12/04/00 14:47	Received:	12/05/00	12:45						Ş
Dry Weight	83.8	1.00	%		1	0L06033	12/06/00	12/07/00	BSOPSPL003R07	
SS-03 (B0L0091-03) Soil	Sampled: 12/04/00 14:55	Received:	12/05/00	12:45		_			•	
Dry Weight	80.8	1.00	%		1	0L06033	12/06/00	12/07/00	BSOPSPL003R07	;
SS-04 (B0L0091-04) Soil	Sampled: 12/04/00 14:43	Received:	12/05/00	12:45						
Dry Weight	81.6	1.00	%		1	0L06034	12/06/00	12/07/00	BSOPSPL003R07	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

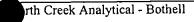
Reported:

Project Manager: Bryan Graham

12/19/00 13:22

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

7.0pv6			T I	Reporting		Spike	Source		%REC		RPD	
Blank (0L10004-BLK1) Gasoline Range Hydrocarbons ND 50.0 ug/l	Analyte	3			Units			%REC		RPD		Notes
Sasoline Range Hydrocarbons ND 50.0 ug/l	Batch 0L10004: P	Prepared 12/10/00	Using EF	PA 5030B ((P/T)	,						
Benzene	Blank (0L10004-BLK	 (1)	_									
Benzene ND 0.500 "	Gasoline Range Hydrocar	rbons	ND	50.0	ug/l							
Ethylbenzene ND 0.500 " Xylenes (total) ND 1.00 " Surrogate: 4-BFB (FID) 48.9 " 48.0 102 50-150 Surrogate: 4-BFB (PID) 50.0 " 48.0 104 50-150 LCS (0L10004-BS1) Gasoline Range Hydrocarbons 475 50.0 ug/l 500 95.0 70-130 Surrogate: 4-BFB (FID) 48.2 " 48.0 100 50-150 plicate (0L10004-DUP1) Source: B0L0032-03 - oline Range Hydrocarbons 2030 1250 ug/l 1810 11.5 25 Surrogate: 4-BFB (FID) 46.9 " 48.0 97.7 50-150 Duplicate (0L10004-DUP2) Source: B0L0031-04 Gasoline Range Hydrocarbons 770 50.0 ug/l 921 17.9 25 Surrogate: 4-BFB (FID) 42.1 " 48.0 87.7 50-150 Matrix Spike (0L10004-MS1) Source: B0L0032-04 Benzene 9.90 0.500 ug/l 10.0 ND 95.8 70-130 Toluene 9.89 0.500 " 10.0 ND 95.7 70-130 Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150	Benzene		ND	0.500	n							
Xylenes (total) ND 1.00 "	Toluene		ND	0.500	11							
No. No.	Ethylbenzene		ND	0.500	'n							
Surrogate: 4-BFB (PID) So.0 " 48.0 104 50-150	Xylenes (total)		ND	1.00	n							
LCS (OL10004-BS1) Gasoline Range Hydrocarbons 475 50.0 ug/l 500 95.0 70-130 Surrogate: 4-BFB (FID) 48.2 " 48.0 100 50-150 plicate (OL10004-DUP1) Source: B0L0032-03 - oline Range Hydrocarbons 2030 1250 ug/l 1810 11.5 25 Surrogate: 4-BFB (FID) 46.9 " 48.0 97.7 50-150 Duplicate (OL10004-DUP2) Source: B0L0031-04 Gasoline Range Hydrocarbons 770 50.0 ug/l 921 17.9 25 Surrogate: 4-BFB (FID) 42.1 " 48.0 87.7 50-150 Matrix Spike (OL10004-MS1) Source: B0L0032-04 Benzene 9.90 0.500 ug/l 10.0 ND 95.8 70-130 Toluene 9.89 0.500 " 10.0 ND 95.7 70-130 Ethylbenzene 10.6 0.500 " 10.0 ND 95.7 70-130 Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150	Surrogate: 4-BFB (FID)		48.9		"					·		
Gasoline Range Hydrocarbons 475 50.0 ug/l 500 95.0 70-130			50.0		"	48.0		104	50-150			
Surrogate: 4-BFB (FID) 48.2 " 48.0 100 50-150 plicate (0L10004-DUP1) Source: B0L0032-03 coline Range Hydrocarbons 2030 1250 ug/l 1810 11.5 25 Surrogate: 4-BFB (FID) 46.9 " 48.0 97.7 50-150 Duplicate (0L10004-DUP2) Source: B0L0031-04 Gasoline Range Hydrocarbons 770 50.0 ug/l 921 17.9 25 Surrogate: 4-BFB (FID) 42.1 " 48.0 87.7 50-150 Matrix Spike (0L10004-MS1) Source: B0L0032-04 Benzene 9.90 0.500 ug/l 10.0 ND 95.8 70-130 Toluene 9.89 0.500 " 10.0 ND 95.7 70-130 Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150 Source: B0L0032-04	LCS (0L10004-BS1)								_			
Dicate (0L10004-DUP1) Source: B0L0032-03	Gasoline Range Hydrocar	irbons	475	50.0	ug/l	500		95.0	70-130			
Surrogate: 4-BFB (PID) 2030 1250 ug/l 1810 11.5 25	Surrogate: 4-BFB (FID)		48.2			48.0		100	50-150			
Oline Range Hydrocarbons 2030 1250 ug/l 1810 11.5 25	plicate (0L10004-D	DUP1)					Source: I	30L0032-	03			
Duplicate (0L10004-DUP2) Source: B0L0031-04 Gasoline Range Hydrocarbons 770 50.0 ug/l 921 17.9 25 Surrogate: 4-BFB (FID) 42.1 " 48.0 87.7 50-150 Matrix Spike (0L10004-MS1) Source: B0L0032-04 Benzene 9.90 0.500 ug/l 10.0 ND 95.8 70-130 Toluene 9.89 0.500 " 10.0 ND 95.7 70-130 Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150			2030	1250	ug/l	-	1810			11.5	25	· ·
Gasoline Range Hydrocarbons 770 50.0 ug/l 921 17.9 25 Surrogate: 4-BFB (FID) 42.1 " 48.0 87.7 50-150 Matrix Spike (0L10004-MS1) Source: B0L0032-04 Benzene 9.90 0.500 ug/l 10.0 ND 95.8 70-130 Toluene 9.89 0.500 " 10.0 ND 95.7 70-130 Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150	Surrogate: 4-BFB (FID)		46.9		n	48.0		97.7	50-150			
Gasoline Range Hydrocarbons 770 50.0 ug/l 921 17.9 25 Surrogate: 4-BFB (FID) 42.1 " 48.0 87.7 50-150 Matrix Spike (0L10004-MS1) Source: B0L0032-04 Benzene 9.90 0.500 ug/l 10.0 ND 95.8 70-130 Toluene 9.89 0.500 " 10.0 ND 95.7 70-130 Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150	Duplicate (0L10004-D	DUP2)					Source: I	B0L0031-	04			
Matrix Spike (0L10004-MS1) Benzene 9.90 0.500 ug/l 10.0 ND 95.8 70-130 Toluene 9.89 0.500 " 10.0 ND 95.7 70-130 Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (PlD) 46.6 " 48.0 97.1 50-150			770	50.0	ug/l		921			17.9	25	
Benzene 9.90 0.500 ug/l 10.0 ND 95.8 70-130 Toluene 9.89 0.500 " 10.0 ND 95.7 70-130 Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (P1D) 46.6 " 48.0 97.1 50-150	Surrogate: 4-BFB (FID)		42.1		"	48.0		87.7	50-150			
Benzene 9.90 0.500 ug/l 10.0 ND 95.8 70-130 Toluene 9.89 0.500 " 10.0 ND 95.7 70-130 Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150	Matrix Snike (0L1000)04-MS1)					Source: 1	B0L0032-	04			
Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150			9.90	0.500	ug/l	10.0	ND	95.8	70-130			_
Ethylbenzene 10.6 0.500 " 10.0 ND 106 70-130 Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (P1D) 46.6 " 48.0 97.1 50-150				0.500		10.0	ND	95.7	70-130			
Xylenes (total) 31.5 1.00 " 30.0 ND 104 70-130 Surrogate: 4-BFB (PID) 46.6 " 48.0 97.1 50-150		·		0.500	n	10.0	ND	106	70-130			
Surroguie. 4-bi b (11b)	=			1.00	n	30.0	ND	104	70-130			
Matrix Spike Dup (01.10004-MSD1) Source: B0L0032-04	Surrogate: 4-BFB (PID)		46.6		"	48.0		97.1	50-150	-		
	Matrix Spike Dup (01	L10004-MSD1)					Source: 1	B0L0032-	04			
Benzene 10.0 0.500 ug/l 10.0 ND 96.8 70-130 1.01 15			10.0	0.500	ug/l	10.0	ND	96.8	70-130	1.01	15	
Toluene 9.84 0.500 " 10.0 ND 95.2 70-130 0.507 15			9.84	0.500		10.0	ND	95.2	70-130	0.507	15	
Ethylbenzene 10.5 0.500 " 10.0 ND 105 70-130 0.948 15			10.5	0.500	n	10.0	ND	105	70-130	0.948	15	
Xylenes (total) 30.8 1.00 " 30.0 ND 102 70-130 2.25 15	-		30.8	1.00	11	30.0	ND	102	70-130	2.25	15	
Surrogate: 4-BFB (PID) 42.2 " 48.0 87.9 50-150	Surrogate: 4-BFB (PID)	<u> </u>	42.2		"	48.0	· <u>- </u>	87.9	50-150			



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9/ D E (

Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/19/00 13:22

DDD

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

•		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L09003: Prepared 12/09/00	Using El	PA 3520C/	600 Series							
Blank (0L09003-BLK1)	÷									
Diesel Range Hydrocarbons	ND	0.250	mg/l	•			_			
Lube Oil Range Hydrocarbons	ND	0.500	N							
Surrogate: 2-FBP	0.219	-	"	0.320		68.4	50-150		·	
Surrogate: Octacosane	0.251		"	0.320		78. 4	50-150			
LCS (0L09003-BS1)										
Diesel Range Hydrocarbons	1.71	0.250	mg/l	2.00		85.5	60-140		-	
Surrogate: 2-FBP	0.242		"	0.320		75.6	50-150	_	-	
LCS Dup (0L09003-BSD1)										
Diesel Range Hydrocarbons	1.57	0.250	mg/l	2.00		78.5	60-140	8.54	40	
Surrogate: 2-FBP	0.213		"	0.320		66.6	50-150			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/19/00 13:22

DDD

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

	Reporting		Spike						
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit ————	Notes
Using E	PA 3020A								
ND	0.00100	mg/l		_					
0.191	0.00100	mg/l	0.200		95.5	80-120			
				Source: I	BOL0028-	02			
0.203	0.00100	mg/l	0.200	ND	101	75-125			
				Source: I	B0L0028-	02			
0.192	0.00100	mg/l	0.200	ND	95.9	75-125	5.57	20	
	ND 0.191 0.203	Result Limit Using EPA 3020A ND 0.00100 0.191 0.00100 0.203 0.00100	Result Limit Units Using EPA 3020A ND 0.00100 mg/l 0.191 0.00100 mg/l 0.203 0.00100 mg/l	Result Limit Units Level Using EPA 3020A ND 0.00100 mg/l 0.191 0.00100 mg/l 0.200 0.203 0.00100 mg/l 0.200	Result Limit Units Level Result Using EPA 3020A ND 0.00100 mg/l 0.200 Source: I 0.191 0.00100 mg/l 0.200 ND Source: I 0.203 0.00100 mg/l 0.200 ND Source: I	Result Limit Units Level Result %REC Using EPA 3020A ND 0.00100 mg/l 0.191 0.00100 mg/l 0.200 95.5 Source: B0L0028-0 0.203 0.00100 mg/l 0.200 ND 101 Source: B0L0028-0	Result Limit Units Level Result %REC Limits Using EPA 3020A ND 0.00100 mg/l	Result Limit Units Level Result %REC Limits RPD Using EPA 3020A ND 0.00100 mg/l 0.200 95.5 80-120 ND 0.00100 mg/l 0.200 95.5 80-120 Source: B0L0028-02 0.203 0.00100 mg/l 0.200 ND 101 75-125 Source: B0L0028-02	Result Limit Units Level Result %REC Limits RPD Limit Using EPA 3020A ND 0.00100 mg/l 0.200 95.5 80-120 ND 0.00100 mg/l 0.200 95.5 80-120 Source: B0L0028-02 0.203 0.00100 mg/l 0.200 ND 101 75-125 Source: B0L0028-02



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/19/00 13:22

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L07001: Prepared 12/07/00	Using E	PA 3550B							_	
Blank (0L07001-BLK1)										
Pentachlorophenol	0.0607	0.0500	mg/kg wet		-		_			
Surrogate: 2,4,6-TBP	1.43	•	"	1.67		85.6	30-150			
LCS (0L07001-BS1)										
Pentachlorophenol	0.421	0.0500	mg/kg wet	0.667		63.1	30-150			
Surrogate: 2,4,6-TBP	1.21	<u>-</u>	"	1.67		72.5	30-150			
Matrix Spike (0L07001-MS1)					Source: 1	B0L0135-	08			
Pentachlorophenol	0.594	0.0500	mg/kg dry	0.731	0.153	60.3	25-200			_
Surrogate: 2,4,6-TBP	1.19		"	1.83		65.0	30-150	-		•
Matrix Spike Dup (0L07001-MSD1)					Source: 1	B0L0135-	08			<u> </u>
Pentachlorophenol	0.574	0.0500	mg/kg dry	0.731	0.153	57.6	25-200	3.42	50	Ţ
Surrogate: 2,4,6-TBP	1.34		"	1.83		73.2	30-150			 ÷

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/19/00 13:22

Carcinogenic Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
			<u>, omis</u>							
Batch 0L07001: Prepared 12/07/00	Using El	PA 3550B					_			
Blank (0L07001-BLK1)										
Benzo (a) anthracene	ND	0.0100	mg/kg wet							
Benzo (a) pyrene	ND	0.0100	**							
Benzo (b) fluoranthene	ND	0.0100	0							
Benzo (k) fluoranthene	ND	0.0100	"							
Chrysene	ND	0.0100	Ħ							
Dibenz (a,h) anthracene	ND	0.0100	**							
Indeno (1,2,3-cd) pyrene	ND	0.0100	n							
Surrogate: 2-FBP	1.14		,,	1.67		68.3	13-140	-		
Surrogate: Nitrobenzene-d5	1.27		,,	1.67		76.0	10-138			
Surrogate: p-Terphenyl-d14	1.84		"	1.67		110	19-137			
LCS (0L07001-BS1)										
ysene	0.292	0.0100	mg/kg wet	0.333		87.7	51-124		-	
Indeno (1,2,3-cd) pyrene	0.277	0.0100	H	0.333		83.2	27-148			
Surrogate: 2-FBP	1.01		"	1.67		60.5	13-140			
Surrogate: Nitrobenzene-d5	1.06		H	1.67		<i>63.5</i>	10-138			
Surrogate: p-Terphenyl-d14	1.66		"	1.67		99.4	19-137			
Matrix Spike (0L07001-MS1)			•		Source: I	B0L0135-	08	1-		_
Chrysene	0.317	0.0100	mg/kg dry	0.366	ND	86.6	15-147			
Indeno (1,2,3-cd) pyrene	0.306	0.0100	H	0.366	ND	83.6	10-179			
Surrogate: 2-FBP	1.21		**	1.83		66.1	13-140			
Surrogate: Nitrobenzene-d5	1.40		"	1.83	•	76.5	10-138			
Surrogate: p-Terphenyl-d14	1.92		"	1.83		105	19-137		•	
Matrix Spike Dup (0L07001-MSD1)						B0L0135-				
Chrysene	0.314	0.0100	mg/kg dry	0.366	ND	85.8	15-147	0.951	37	_
.Indeno (1,2,3-cd) pyrene	0.301	0.0100	**	0.366	ND	82.2	10-179	1.65	53	
Surrogate: 2-FBP	1.24		<u>,, , , , , , , , , , , , , , , , , , ,</u>	1.83		67.8	13-140			
Surrogate: Nitrobenzene-d5	1.41		"	1.83		77.0	10-138			
Surrogate: p-Terphenyl-d14	1.91		"	1.83		104	19-137			

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Project: West Commodore Way Phase II Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/19/00 13:22

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L06033:	Prepared 12/06/00	Using Dr	y Weight								
Blank (0L06033-B)	LK1)		- ,								
Dry Weight		100	1.00	%							
Batch 0L06034:	Prepared 12/06/00	Using Dr	y Weight								
Blank (0L06034-B)	LKI)										
Dry Weight		100	1.00	%	-						

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/19/00 13:22

Notes and Definitions

Samples were field filtered then filtered in the lab and run as Total Pb by EPA 6020. A-01

The method blank contains analyte at a concentration above the MRL. This concentration is less than 5% of the sample result, Q-18

which is negligible according to method criteria.

The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the R-03

sample.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD



11720) North Creek Pkwy N, Suite 400, Bothell, WA 98011-8223 East 11115 Montgomery, Suite B, Spokane, WA 98206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 (425) 420-9200 (509) 924-9200

(503) 906-9200

FAX 420-9210 FAX 924-9290 FAX 906-9210 (541) 383-9310 FAX 382-7588

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Foster Wheeler Environmental Corporation

12100 NE T95th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-31-2	B0K0613-01	Soil	11/22/00 08:18	11/22/00 16:20
SB-31-5	B0K0613-02	Soil	11/22/00 08:23	11/22/00 16:20
SB-31-10	B0K0613-03	Soil	11/22/00 08:30	11/22/00 16:20
SB-31-15	B0K0613-04	Soil	11/22/00 08:35	11/22/00 16:20
SB-31-20	B0K0613-05	Soil	11/22/00 08:40	11/22/00 16:20
SB-31-25	B0K0613-06	Soil	11/22/00 08:45	11/22/00 16:20
SB-32-2	B0K0613-07	Soil	11/22/00 09:50	11/22/00 16:20
SB-32-5	B0K0613-08	Soil	11/22/00 09:54	11/22/00 16:20
SB-32-10	B0K0613-09	Soil	11/22/00 10:02	11/22/00 16:20
SB-32-15	B0K0613-10	Soil	11/22/00 10:10	11/22/00 16:20
SB-32-20	B0K0613-11	Soil	11/22/00 10:15	11/22/00 16:20
32-32-25	B0K0613-12	Soil	11/22/00 10:20	11/22/00 16:20
-3-42-2	B0K0613-13	Soil	11/22/00 08:12	11/22/00 16:20
SB-42-5	B0K0613-14	Soil	11/22/00 08:22	11/22/00 16:20
SB-42-10	B0K0613-15	Soil	11/22/00 08:28	11/22/00 16:20
SB-39-2	B0K0613-16	Soil	11/22/00 10:15	11/22/00 16:20
SB-39-5	B0K0613-17	Soil	11/22/00 10:23	11/22/00 16:20
SB-39-10	B0K0613-18	Soil	11/22/00 10:30	11/22/00 16:20
SB-39-15	B0K0613-19	Soil	11/22/00 10:33	11/22/00 16:20
SB-33-2	B0K0613-20	Soil	11/22/00 11:38	11/22/00 16:20
SB-33-5	B0K0613-21	Soil	11/22/00 11:44	11/22/00 16:20
SB-33-10	B0K0613-22	Soil	11/22/00 11:50	11/22/00 16:20
SB-33-15	B0K0613-23	Soil	11/22/00 11:55	11/22/00 16:20
SB-33-20	B0K0613-24	Soil	11/22/00 12:00	11/22/00 16:20
SB-33-25	B0K0613-25	Soil	11/22/00 12:05	11/22/00 16:20
SB-34-2	B0K0613-26	Soil	11/22/00 13:22	11/22/00 16:20
SB-34-5	B0K0613-27	Soil	11/22/00 13:27	11/22/00 16:20
SB-34-10	B0K0613-28	Soil	11/22/00 13:32	11/22/00 16:20
SB-34-15	B0K0613-29	Soil	11/22/00 13:37	11/22/00 16:20

h Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-34-20	B0K0613-30	Soil	11/22/00 13:42	11/22/00 16:20
SB-34-25	B0K0613-31	Soil	11/22/00 13:47	11/22/00 16:20
SB-35-2	B0K0613-32	Soil	11/22/00 14:30	11/22/00 16:20
SB-35-5	B0K0613-33	Soil	11/22/00 14:35	11/22/00 16:20
SB-35-10	B0K0613-34	Soil	11/22/00 14:40	11/22/00 16:20
SB-35-15	B0K0613-35	Soil	11/22/00 14:45	11/22/00 16:20
SB-35-20	B0K0613-36	Soil	11/22/00 14:50	11/22/00 16:20
SB-35-25	B0K0613-37	Soil	11/22/00 14:55	11/22/00 16:20

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-31-2 (B0K0613-01) Soil	Sampled: 11/22/00 08:1	8 Received	d: 11/22/00 J	6:20					
Gasoline Range Hydrocarbo		20.0	mg/kg dry	4	0K29024	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.512	n	n	**	tı	Ħ	U	R-03
Toluene	ND	0.248	H	71	n	II .	17	Ħ	R-03
Ethylbenzene	ND	0.824	**	Ħ	"	"	**	n	^ R-03
Xylenes (total)	ND	2.52	n	n	II	"	н	н	R-03
	%	50-150			"		"	"	S-02
Surrogate: 4-BFB (FID) Surrogate: 4-BFB (PID)	143 %	50-150			"	"	"	"	
SB-31-5 (B0K0613-02) Soil	Sampled: 11/22/00 08:2	3 Receive	d: 11/22/00	16:20	_				
Gasoline Range Hydrocarbo		5.00	mg/kg dry	1	0K29024	11/29/00	12/05/00	NWTPH-Gx/8021B	G-01
Benzene	ND	0.0500	71	*1	и	**	'n	"	
Toluene	ND	0.0500	II .	н	ti	n	**	n	
Ethylbenzene	ND	0.0500	Ħ	*1	н	**	н	н	
nes (total)	ND	0.100	n	U	H	n	, ii		
surrogate: 4-BFB (FID)	88.6 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	88.0 %	50-150			"	*	"	"	
SB-31-10 (B0K0613-03) Soi	Sampled: 11/22/00 08	:30 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbon		5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	#	u u	11	n	"	,	
Toluene	ND	0.0500	U	*1	n	**	"	"	
Ethylbenzene	ND	0.0500	ii	n	n	"	**	n	
Xylenes (total)	ND	0.100	n	17	۲				
Surrogate: 4-BFB (FID)	73.5 %	50-150			"	"	"	.,	
Surrogate: 4-BFB (PID)	79.9 %	50-150			"	"	"	"	

th Creek Analytical - Bothell

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Gill, Project Manager

Surrogate: 4-BFB (PID)



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B

North Creek Analytical - Bothell

		Reporting			-	<u>-</u>			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-31-15 (B0K0613-04) Soil	Sampled: 11/22/00 08	3:35 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	ti	N	r	h	n	
Toluene	ND	0.0500	11	**	n	n	n	n	
Ethylbenzene	ND	0.0500		**	**	п	n	n	
Xylenes (total)	ND	0.100	н	11	71	n	н	n	
Surrogate: 4-BFB (FID)	79.6 %	50-150			n	,,	"	"	
Surrogate: 4-BFB (PID)	85.1 %	50-150			"	"	,,	"	
SB-31-20 (B0K0613-05) Soil	Sampled: 11/22/00 08	3:40 Receiv	ed: 11/22/00	16:20		•			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	Tr .	н	11	n	н	19	
Toluene	ND	0.0500	и	n	**	n	H	n	
Ethylbenzene	ND	0.0500	н	t+	Ħ	n	n	п	,~~
Xylenes (total)	ND	0.100	**	17	**	n	tı	n	(
Surrogate: 4-BFB (FID)	74.0 %	50-150			"	"	"	"	— · _ ·
Surrogate: 4-BFB (PID)	79.1 %	50-150			"	"	"	"	
SB-31-25 (B0K0613-06) Soil	Sampled: 11/22/00 08	3:45 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	n	,,	n	n	u	
Toluene	ND	0.0500	n	n	н	h	n	n	
Ethylbenzene	ND	0.0500	n	n	n	n	n	n	
Xylenes (total)	ND	0.100		11		n	n		
Surrogate: 4-BFB (FID)	68.7 %	50-150	•		"	**	"	"	
Surrogate: 4-BFB (PID)	74.7 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-2 (B0K0613-07) Soil	Sampled:	11/22/00 09:50	Received	l: 11/22/00 1	16:20			<u> </u>		
Gasoline Range Hydrocarbons		ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene		ND	0.0500	11	н	н	"	n	H	
Toluene		ND	0.0500	n	n	tr	11	*	n	
Ethylbenzene		ND	0.0500	n	**	n	n	n	II	
Xylenes (total)		ND	0.100	n	11	**		**		
Surrogate: 4-BFB (FID)		78.3 %	50-150			"	11	"	"	
Surrogate: 4-BFB (PID)		82.0 %	50-150			"	"	"	,,	
SB-32-5 (B0K0613-08) Soil	Sampled:	11/22/00 09:5	4 Receive	d: 11/22/00	16:20					
Gasoline Range Hydrocarbo		216	20.0	mg/kg dry	4	0K29024	11/29/00	12/05/00	NWTPH-Gx/8021B	G-01
Benzene		ND	0.200	n	n	11	n	n	n	
Toluene		ND	0.200	n	11	"	**	n	it .	
Fthylbenzene		ND	0.200	**	H	Ħ	n	n	n n	
nes (total)		ND	0.508	11	n	**				R-03
surrogate: 4-BFB (FID)		149 %	50-150			. "	,,	,,	"	
Surrogate: 4-BFB (PID)		103 %	50-150			"	"	"	"	
SB-32-10 (B0K0613-09) Soi	1 Sample	d: 11/22/00 10:	02 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbor		ND	5.00	mg/kg dry]	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene		ND	0.0500	H	ij	н	"	11	11	
Toluene		ND	0.0500	11	n	**	n	11	"	
Ethylbenzene		ND	0.0500	11	*1		*1	11	u .	
Xylenes (total)		ND	0.100	n	n				, <u> </u>	
Surrogate: 4-BFB (FID)		78.7 %	50-150			"	"	H		
Surrogate: 4-BFB (PID)		90.7 %	50-150			,,	"	**	,,	

h Creek Analytical - Bothell

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Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

SB-32-15 (B0K0613-10) Soil Sampled: 11/22/00 10:10 Received: 11/22/00 16:20 Gasoline Range Hydrocarbons ND	Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample Hydrocarbons ND 5.00 mg/kg dry 1 0K29024 11/29/00 12/04/00 NWTPH-Gx/8021B										
Benzene	SB-32-15 (B0K0613-10) Soil	Sampled: 11/22/00 10	0:10 Receiv	ed: 11/22/00	16:20					
Toluene	Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	•
Ethylbenzene ND 0.0500 " " " " " " " " " " " " " " " " " "	Benzene	ND	0.0500	II	n	п	**	**	н	
ND 0.100 " " " " " " " " " " " " " " "	Toluene	ND	0.0500	"	n	**	Ħ	Ħ	n	
Surrogate: 4-BFB (FID) S1.9 % 50-150 " " " " " " " " " " " "	Ethylbenzene	ND	0.0500	ıı	n	Ħ	и	**	н	
Surrogate: 4-BFB (PID) 93.2 % 50-150 " " " " " " " " SB-32-20 (B0K0613-11) Soil Sampled: 11/22/00 10:15 Received: 11/22/00 16:20 Gasoline Range Hydrocarbons ND 5.00 mg/kg dry 1 0K29024 11/29/00 12/04/00 NWTPH-Gx/8021B Benzene ND 0.0500 " " " " " " " " " " Toluene ND 0.0500 " " " " " " " " " Ethylbenzene ND 0.0500 " " " " " " " " " Xylenes (total) ND 0.100 " " " " " " " " " Surrogate: 4-BFB (FID) 76.4 % 50-150 " " " " " " " " " Surrogate: 4-BFB (PID) 91.1 % 50-150 " " " " " " " " " Gasoline Range Hydrocarbons ND 5.00 mg/kg dry 1 0K29024 11/29/00 12/04/00 NWTPH-Gx/8021B Benzene 0.0513 0.0500 " " " " " " " " " " " " " " " " " Toluene ND 0.0500 " " " " " " " " " " " " " " " " " "	Xylenes (total)	ND	0.100	ıı	11	**	n	•	п	
Surrogate: 4-BFB (PID) 93.2 % 50-150 " " " " " SB-32-20 (B0K0613-11) Soil Sampled: 11/22/00 10:15 Received: 11/22/00 16:20 Gasoline Range Hydrocarbons ND 5.00 mg/kg dry 1 0K29024 11/29/00 12/04/00 NWTPH-Gx/8021B Benzene ND 0.0500 " " " " " " " " " " " " " " " " " " Toluene ND 0.0500 " " " " " " " " " " " " " " " " " Kylenes (total) ND 0.100 " " " " " " " " " " " Surrogate: 4-BFB (FID) 76.4 % 50-150 " " " " " " " " " " Surrogate: 4-BFB (PID) 91.1 % 50-150 " " " " " " " " " " SB-32-25 (B0K0613-12) Soil Sampled: 11/22/00 10:20 Received: 11/22/00 16:20 Gasoline Range Hydrocarbons ND 5.00 mg/kg dry 1 0K29024 11/29/00 12/00 NWTPH-Gx/8021B Benzene 0.0513 0.0500 " " " " " " " " " " " " " " " " " "	Surrogate: 4-BFB (FID)	81.9 %	50-150			"	"	,,	,,	
Casoline Range Hydrocarbons ND 5.00 mg/kg dry 1 0K29024 11/29/00 12/04/00 NWTPH-Gx/8021B	• • •	93.2 %	<i>50-150</i>			"	"	"	n	
Benzene	SB-32-20 (B0K0613-11) Soil	Sampled: 11/22/00 10	0:15 Receiv	ed: 11/22/00	16:20	•				
Toluene ND 0.0500 " " " " " " " " " " " " " " " " " "	Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	•
Ethylbenzene ND 0.0500 " " " " " " " " " " " " " " " " " "	Benzene	ND	0.0500	•	"	н	н	*	n	
Xylenes (total) ND 0.100 "	Toluene	ND	0.0500	n	17	n	**	**	n	
Surrogate: 4-BFB (FID) 76.4 % 50-150 " " " " " " " " " Surrogate: 4-BFB (PID) 91.1 % 50-150 " " " " " " " " " " " " "	Ethylbenzene	ND	0.0500	**	n.	**	**	n	n	
Surrogate: 4-BFB (PID) 91.1 % 50-150 " " " " " " SB-32-25 (B0K0613-12) Soil Sampled: 11/22/00 10:20 Received: 11/22/00 16:20 Gasoline Range Hydrocarbons ND 5.00 mg/kg dry 1 0K29024 11/29/00 12/04/00 NWTPH-Gx/8021B Benzene 0.0513 0.0500 " " " " " " " " " " " " Toluene ND 0.0500 " " " " " " " " " " " Ethylbenzene ND 0.0500 " " " " " " " " " " " Xylenes (total) ND 0.100 " " " " " " " " " " " " Surrogate: 4-BFB (FID) 74.1 % 50-150 " " " " " " " " " "	Xylenes (total)	ND	0.100	H	н	Ħ	Ħ	н	n	,
SB-32-25 (B0K0613-12) Soil Sampled: 11/22/00 10:20 Received: 11/22/00 16:20 Gasoline Range Hydrocarbons ND 5.00 mg/kg dry 1 0K29024 11/29/00 12/04/00 NWTPH-Gx/8021B Benzene 0.0513 0.0500 " " " " " " " " Toluene ND 0.0500 " " " " " " " " " Ethylbenzene ND 0.0500 " " " " " " " " " Xylenes (total) ND 0.100 " " " " " " " " " " Surrogate: 4-BFB (FID) 74.1 % 50-150 " " " " " " "	Surrogate: 4-BFB (FID)	76.4 %	50-150			"	"	"	"	
Gasoline Range Hydrocarbons ND 5.00 mg/kg dry 1 0K29024 11/29/00 12/04/00 NWTPH-Gx/8021B Benzene 0.0513 0.0500 " " " " " " " " " " " " " " " " " "	` ',	91.1 %	50-150			**	"	"	"	
Benzene 0.0513 0.0500 "	SB-32-25 (B0K0613-12) Soil	Sampled: 11/22/00 10	0:20 Receiv	ed: 11/22/00	16:20					
Toluene ND 0.0500 " " " " " " " " " " " " " " " " " "	Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	
Ethylbenzene ND 0.0500 "	Benzene	0.0513	0.0500	н	п	n	D	H	11	
Xylenes (total) ND 0.100 " " " " " " " " " " " " " " " " " "	Toluene	ND	0.0500	Ħ	n	n	n	"	"	
Xylenes (total) ND 0.100 " " " " " " " " " " " " " " " " " "	Ethylbenzene	ND	0.0500	n	17	n	**	41	n	
burroguie. 4-bi b (11b)	•	ND	0.100	h	"	n	11	n	n	
	Surrogate: 4-BFB (FID)	74.1 %	50-150			<u>-</u>	"	"	,,	
	• • •	84.4 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-42-2 (B0K0613-13) Soil	Sampled: 11/22/00 08:12	2 Receive	d: 11/22/00 1	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	**	u	н	**	Ħ	**	
Toluene	ND	0.0500	**	H	n	**	11	"	
Ethylbenzene	ND	0.0500	n	11	h	н	17	"	
Xylenes (total)	ND	0.100	**	**	**		n		_
Surrogate: 4-BFB (FID)	77.9 %	50-150			n	"	"		
Surrogate: 4-BFB (PID)	85.3 %	50-150			"	"	"	n	
	Sampled: 11/22/00 08:2	2 Receive	d: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	l7	*	n	"	n	
Toluene	ND	0.0500	71	**	"	**	n	n	
Fihylbenzene	ND	0.0500	n	н	n	**	11	1)	
nes (total)	ND	0.100	11	n	n	n 	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,		
Sur, ogate: 4-BFB (FID)	72.6 %	50-150			"	"	"	**	
Surrogate: 4-BFB (PID)	79.9 %	50-150			- "	"	**	"	
SB-42-10 (B0K0613-15) Soil	Sampled: 11/22/00 08:	28 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	s ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	н	и	n	*1	**	n	
Toluene	ND	0.0500	**	n	н	n	н	n	
Ethylbenzene	ND	0.0500	n	H	19	"	**	Ħ	
Xylenes (total)	ND	0.100	11	**		"		n	
Surrogate: 4-BFB (FID)	76.4 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	81.9 %	50-150			n	"	"	"	

th Creek Analytical - Bothell

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Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-39-2 (B0K0613-16) Soil	Sampled: 11/22/00 10:3	15 Received	d: 11/22/00 1	16:20			-		;
Gasoline Range Hydrocarbon	ns 34.8	5.00	mg/kg dry	1	0K29024	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	u	и	н	tt	11		•
Toluene	ND	0.0500	п	n	11	**	n	n	
Ethylbenzene	0.167	0.0500	11	n	H	11	tt	'n	
Xylenes (total)	0.567	0.100	H	n	H	н	n	n	
Surrogate: 4-BFB (FID)	114%	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	97.6 %	50-150				"	"	,,	
SB-39-5 (B0K0613-17) Soil	Sampled: 11/22/00 10:2	23 Receive	d: 11/22/00 1	16:20					_
Gasoline Range Hydrocarbo	ns 605	20.0	mg/kg dry	4	0K29024	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.280	11	n	n	n	n	π	R-03
Toluene	ND	0.200	n	n	n	n	11	п	
Ethylbenzene	ND	1.68	н	**	u	r	11	•	ģ-ប៊៌3
Xylenes (total)	ND	3.24	"	71	"	n	19	p	, 1,
Surrogate: 4-BFB (FID)	%	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	%	50-150			"	"	"	,,	S-02
SB-39-10 (B0K0613-18) Soil	Sampled: 11/22/00 10	:30 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	н	**	u	11	17	н	ļ
Toluene	ND	0.0500	ħ	n	Ħ	Ħ	17	n	
Ethylbenzene	ND	0.0500	II	l7	u	11	n	tı	
Xylenes (total)	ND	0.100	н	н	H	Ħ	11	11	i
Surrogate: 4-BFB (FID)	76.0 %	50-150			27	,,	"	. 11	{
Surrogate: 4-BFB (PID)	80.6 %	50-150			n	"	"	u u	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase Il

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

		Reporting	*11 %-		Datab	D	A 1	Mashad	Notas
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-39-15 (B0K0613-19) Soil Sam	pled: 11/22/00 10:	33 Receive	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29024	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	11	n	"	11	" -	
Toluene	ND	0.0500	n	II .	n	11	и	n	
Ethylbenzene	ND	0.0500	n	**	n	•	н	ii .	
Xylenes (total)	ND	0.100	11	n	"	**	"	III	
Surrogate: 4-BFB (FID)	77.0 %	50-150			"	#	"	"	
Surrogate: 4-BFB (PID)	81.5 %	50-150			*	"	,,	"	
SB-33-2 (B0K0613-20) Soil Samp	oled: 11/22/00 11:3	8 Receive	d: 11/22/00 1	16:20					
Gasoline Range Hydrocarbons	10.9	5.00	mg/kg dry	1	0K29024	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	н	"	**	n	n	n	
Toluene	ND	0.0641	ir .	11	n	11	tr	n	R-0
Ethylbenzene	ND	0.0500		**	11	n	n	U	
nes (total)	0.156	0.100	"	н	ti	n			_
ogate: 4-BFB (FID)	79.5 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	81.4 %	50-150			"	**	"	H	
SB-33-5 (B0K0613-21) Soil Samp	oled: 11/22/00 11:4	4 Receive	d: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	. 12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	И	'n		"	It	11	
Toluene	ND	0.0500	Ħ	n	n	11	**	ti	
Ethylbenzene	ND	0.0500	71	n	n	**	n	Ħ	
Xylenes (total)	ND	0.100		11	н	h	h	n	
Surrogate: 4-BFB (FID)	98:9 %	50-150	_		<i>"</i>	n	"	"	
Surrogate: 4-BFB (PID)	106 %	50-150			,,	,,	"	"	

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Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Project Number: n/a Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Project: West Commodore Way Phase II

		Reporting		_					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-10 (B0K0613-22) Soil	Sampled: 11/22/00 11	1:50 Receive	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	**	17	17	"	**	n	
Toluene	ND	0.0500	n	п	n	71	"	u	
Ethylbenzene	ND	0.0500	II	11	n	**	**	**	
Xylenes (total)	ND	0.100		11	"	"	11	н	
Surrogate: 4-BFB (FID)	103 %	50-150			н	"	"	"	
Surrogate: 4-BFB (PID)	107 %	50-150			"	" .	"	"	
SB-33-15 (B0K0613-23) Soil	Sampled: 11/22/00 13	1:55 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	ıı	n	n	n	*1	n	
Toluene	ND	0.0500	n	n	Ħ	n	11	n ,	
Ethylbenzene	ND	0.0500	n	Ħ	n	n	n	н	· · ·
Xylenes (total)	ND	0.100	n	π	Ħ	n	н	'n	(
Surrogate: 4-BFB (FID)	98.8 %	50-150			"	,,	н	ii .	
Surrogate: 4-BFB (PID)	109 %	50-150			"	"	"	"	
SB-33-20 (B0K0613-24) Soil	Sampled: 11/22/00 12	2:00 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	*	**	'n	n	n	
Toluene	ND	0.0500	n	*	Я	n	n	н	,
Ethylbenzene	ND	0.0500	n	n	n	**	**	н	
Xylenes (total)	ND	0.100	Ħ	**	**		**	**	
Surrogate: 4-BFB (FID)	97.7 %	50-150			<i>"</i>	"	"	n	
Surrogate: 4-BFB (PID)	103 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Änalyzed	Method	Notes
SB-33-25 (B0K0613-25) Soil	Sampled: 11/22/00 12:	05 Receive	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	**	н	li .	v	*1	te .	
Toluene	. ND	0.0500	Ħ	11	10	11	n	11	
Ethylbenzene	ND	0.0500	"	11	Ħ	n	**	н	
Xylenes (total)	ND	0.100	**	h 		"	"		
Surrogate: 4-BFB (FID)	90.0 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	97.4 %	50-150			"	"	**	"	
SB-34-2 (B0K0613-26) Soil	Sampled: 11/22/00 13:2	2 Receive	d: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	**	"	"	и	n	
Toluene	ND	0.0500	н	"	,	**	"	**	
'Ethvlbenzene	ND	0.0500	Ħ	n	"	n	ħ	ii .	
nes (total)	ND	0.100	"			***		***	
ogate: 4-BFB (FID)	95.5 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	103 %	50-150			н	,	"	PI	
SB-34-5 (B0K0613-27) Soil	Sampled: 11/22/00 13:2	27 Receive	d: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	12/04/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	**	71	н	**	tr.	"	
Toluene	ND	0.0500	, n	n	D	n	'n	19	
Ethylbenzene	ND	0.0500	**	H	**	**	11	și	
Xylenes (total)	ND	0.100	**	н	n			•• • • • • • • • • • • • • • • • • • •	
Surrogate: 4-BFB (FID)	92.2 %	50-150			"	,,	"	"	
Surrogate: 4-BFB (PID)	102 %	50-150			j.	"	"	"	

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II 12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

		Reporting	•			•			_
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-10 (B0K0613-28) Soil	Sampled: 11/22/00 13	3:32 Receiv	ed: 11/22/00	16:20					_
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	u	"	н	U	н	ų	
Toluene	ND	0.0500	ıı	17	n	n	н	n	
Ethylbenzene	ND	0.0500	ir	17	n	n	ti	n	
Xylenes (total)	ND	0.100	"	n	"	н	**	11	
Surrogate: 4-BFB (FID)	95.4 %	50-150		•	н	,,	"	"	
Surrogate: 4-BFB (PID)	103 %	50-150			,,	"	"	"	
SB-34-15 (B0K0613-29) Soil	Sampled: 11/22/00 13	3:37 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	12/05/00	NWTPH-Gx/8021B	-
Benzene	ND	0.0500	11	**	n	"	11	n	
Toluene	ND	0.0500	*1	н	"	ti	n	n	
Ethylbenzene	ND	0.0500	н	п	n	U	rı	n	,
Xylenes (total)	ND	0.100	"	n	"	II .	**	n	\
Surrogate: 4-BFB (FID)	96.8 %	50-150	•		"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	<i>50-150</i>			,,	"	"	"	
SB-34-20 (B0K0613-30) Soil	Sampled: 11/22/00 13	3:42 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	12/05/00	NWTPH-Gx/8021B	_
Benzene	ND	0.0500	H	ti	n	n	h	11	
Toluene	ND	0.0500		Ħ	tt .	U	n	п	
Ethylbenzene	ND	0.0500	н	tı	н	Ħ	*1	n	•
Xylenes (total)	ND	0.100	"	**	H	ti	n	n	
Surrogate: 4-BFB (FID)	85.7 %	50-150				"	"	"	
Surrogate: 4-BFB (PID)	98.2 %	50-150			n	"	"	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-25 (B0K0613-31) Soil	Sampled: 11/22/00.13:	47 Receive	ed: 11/22/00	16:20			_		
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	3	0K29025	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	**	**	*1	u	"	
Toluene	ND	0.0500	11	n	D	H	n	n	
Ethylbenzene	ND	0.0500	11	н	H	"	H	. "	
Xylenes (total)	ND	0.100	n	**	**	h	н		
Surrogate: 4-BFB (FID)	86.5 %	50-150			,,	"	"	n	
Surrogate: 4-BFB (PID)	96.1 %	50-150			"	"	"	"	
SB-35-2 (B0K0613-32) Soil	Sampled: 11/22/00 14:3	0 Receive	d: 11/22/00 1	16:20					
Gasoline Range Hydrocarbon	ns 5.20	5.00	mg/kg dry	1	0K29025	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	n	U	**	,,	n	
Toluene	ND	0.0500	n	***	n	m	n	II	
Ethylbenzene	ND	0.0500	n	bt .	n	"	**	TI .	
nes (total)	מא	0.100	n	"	17	TI	rı	**************************************	
Surrogate: 4-BFB (FID)	90.6 %	50-150			"	"	"	,,	
Surrogate: 4-BFB (PID)	97.3 %	50-150			"	"	"	"	
SB-35-5 (B0K0613-33) Soil	Sampled: 11/22/00 14:3	5 Receive	d: 11/22/00	16:20				<u> </u>	
Gasoline Range Hydrocarbo	ns 192	10.0	mg/kg dry	2	0K29025	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.100	Ħ	n	n	n	**	**	
Toluene	ND	0.100	**	11	Ħ	н	н	11	
Ethylbenzene	· ND	0.780	n	"	n	h	11	n	R-03
Xylenes (total)	ND	1.72	H	"	н			n	R-03
Surrogate: 4-BFB (FID)	139 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	114 %	50-150			"	"	"	"	

h Creek Analytical - Bothell

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mar Gill, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network**

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Bothell WA, 98011

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B

North Creek Analytical - Bothell

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-35-10 (B0K0613-34) Soil Sample	ed: 11/22/00 14	:40 Receiv	ed: 11/22/00	16:20	_			,	
Gasoline Range Hydrocarbons	41.2	5.00	mg/kg dry	l	0K29025	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	U	Ħ	n	*1	Ħ	19	
Toluene	ND	0.0500	n	H	Ħ	"	17	n	
Ethylbenzene	ND	0.0500	11	11	"	19	"	u	
Xylenes (total)	ND	0.120	n	71	Ħ	II	n	11	R-03
Surrogate: 4-BFB (FID)	93.8 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	50-150			"	"	,,	"	
SB-35-15 (B0K0613-35) Soil Sample	ed: 11/22/00 14	:45 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	1640	100	mg/kg dry	20	0K29025	11/29/00	12/05/00	NWTPH-Gx/8021B	A-01
Benzene	ND	1.00	**	U	U	11	,,)	n	
Toluene	ND	1.00	n	19	n	"	**	11	
Ethylbenzene	ND	2.38	*1	**	**	11	"	н	ນ ທີ່ລ
Xylenes (total)	ND	11.0)1	"	*1	ħ	**	#	
Surrogate: 4-BFB (FID)	197 %	50-150	-		"	"	"	"	S-06
Surrogate: 4-BFB (PID)	182 %	50-150			"	"	"	"	S-06
SB-35-20 (B0K0613-36) Soil Sample	ed: 11/22/00 14	1:50 Receiv	ed: 11/22/00	16:20					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	. 1	0K29025	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	Ħ	Ħ	**	ħ	D.	n	
Toluene	ND	0.0500	п	"	*	*	Ħ	**	
Ethylbenzene	ND	0.0500	Ħ	n	H	*	**	n	
Xylenes (total)	ND	0.100	11		n	n	Ħ	n	
Surrogate: 4-BFB (FID)	90.5 %	50-150			. "	,,	"	,,	
Surrogate: 4-BFB (PID)	96.4 %	50-150			"	n	n	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Project Manager: Bryan Graham Bothell WA, 98011

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-35-25 (B0K0613-37) Soil	Sampled: 11/22/00 14:	55 Receiv	ed: 11/22/00	16:20		<u>.</u>			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K29025	11/29/00	12/05/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	u	11	п	II .	"	11	
Toluene	ND	0.0500	**	17	u	11	n	н	
Ethylbenzene	ND	0.0500	и	H	н	n	н	n	
Xylenes (total)	ND	0.100		17	p	11		"	
Surrogate: 4-BFB (FID)	90.4 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	98.3 %	50-150			"	"	"	"	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Bothell WA, 98011

12/08/00 15:15 Project Manager: Bryan Graham

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-31-2 (B0K0613-01) Soil S	ampled: 11/22/00 08:1	8 Receive	d: 11/22/00 1	16:20			_		
Diesel Range Hydrocarbons	11400	1030	mg/kg dry	41	0K29005	11/29/00	11/30/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	7730	2560	n	n	п	n	n	11	
Surrogate: 2-FBP	%	50-150		_	n	"	"	"	S-
Surrogate: Octacosane	%	50-150			"	"	"	"	S-
SB-31-5 (B0K0613-02) Soil S	ampled: 11/22/00 08:2	3 Receive	d: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29005	11/29/00	11/30/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	"	н		ti .			
Surrogate: 2-FBP	75.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	84.3 %	50-150			"	"	"	"	
SB-31-10 (B0K0613-03) Soil	Sampled: 11/22/00 08:	:30 Receiv	ed: 11/22/ <u>0</u> 0	16:20		· <u>-</u>		· · ·	
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	100
Lube Oil Range Hydrocarbons	ND	25.0	н	н	"				
Surrogate: 2-FBP	73.2 %	50-150			"	"	"	n	0
Surrogate: Octacosane	77.1 %	50-150			**	"	"	"	
SB-31-15 (B0K0613-04) Soil	Sampled: 11/22/00 08	:35 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	tt	"	н	h	19	"	
Surrogate: 2-FBP	73.8 %	50-150			,,	"	"	"	
Surrogate: Octacosane	82.2 %	50-150			"	"	"	"	
-	Sampled: 11/22/00 08	:40 Receiv	ed: 11/22/00	16:20				<u> </u>	
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0		"	н	н	H	н	
Surrogate: 2-FBP	79.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	86.7 %	50-150			"	н	"	. "	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-31-25 (B0K0613-06) Soil S	Sampled: 11/22/00 08:	45 Receive	ed: 11/22/00	16:20				• <u></u>	
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	н	н	"	n	**	19	
Surrogate: 2-FBP	76.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	83.1 %	50-150			"	"	"	<i>p</i>	
SB-32-2 (B0K0613-07) Soil Sa	impled: 11/22/00 09:5	0 Receive	d: 11/22/00	16:20					
Diesel Range Hydrocarbons	11.6	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	ND	25.0	"	**	ıı	11	n	n	
Surrogate: 2-FBP	75.4 %	50-150			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	"	"	"	
Surrogate: Octacosane	82.8 %	50-150			"	"	"	,,	
SB-32-5 (B0K0613-08) Soil Sa	ampled: 11/22/00 09:5	4 Receive	d: 11/22/00	16:20					
Diesel Range Hydrocarbons	15.7	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	
e Oil Range Hydrocarbons	ND	25.0	"		n		n		
ogate: 2-FBP	81.1 %	50-150			"	"	77	"	
Surrogate: Octacosane	86.6 %	50-150			"	"	"	"	
SB-32-10 (B0K0613-09) Soil S	Sampled: 11/22/00 10:	02 Receiv	ed: 11/22/00	16:20			_		
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	U	71	11	H	n	n 	
Surrogate: 2-FBP	75.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	82.4 %	50-150			"	"	"	**	
SB-32-15 (B0K0613-10) Soil S	Sampled: 11/22/00 10:	10 Receiv	ed: 11/22/00	16:20			_		
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29028	11/29/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	11	n		**	n	***	
Surrogate: 2-FBP	92.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	75.1 %	50-150			"	"	"	"	

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Project Manager



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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-20 (B0K0613-11) Soil Sai	mpled: 11/22/00 10:	15 Receiv	ed: 11/22/00	16:20					_
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	71	н	H	**	n	n	
Surrogate: 2-FBP	76.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	85.5 %	50-150			"	"	"	"	•
SB-32-25 (B0K0613-12) Soil Sa	mpled: 11/22/00 10:	20 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	. 11	n	**	n	n	n	
Surrogate: 2-FBP	88.2 %	50-150			<i>"</i>	"	"	н	
Surrogate: Octacosane	84.3 %	50-150			"	"	"	0	
SB-42-2 (B0K0613-13) Soil Sam	pled: 11/22/00 08:1	2 Receive	d: 11/22/00 i	16:20					
Diesel Range Hydrocarbons	39.5	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	. ·
Lube Oil Range Hydrocarbons	43.9	25.0		n 	**	n	н	P	
Surrogate: 2-FBP	81.6 %	50-150			"	"	"	"	,
Surrogate: Octacosane	92.8 %	50-150			"	"	"	"	
SB-42-5 (B0K0613-14) Soil San	pled: 11/22/00 08:2	2 Receive	d: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	11	n	n	**	19	11	
Surrogate: 2-FBP	91.0 %	50-150			"	,,	"	"	
Surrogate: Octocosane	86.5 %	50-150			"	"	"	"	
SB-42-10 (B0K0613-15) Soil Sa	mpled: 11/22/00 08:	28 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K29028	11/29/00	11/30/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	ti .	**	n	"	н	n	
Surrogate: 2-FBP	74.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	82.1 %	50-150			"	"	n	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II Project Number: n/a

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u> </u>						 -			
SB-39-2 (B0K0613-16) Soil Sa	mpled: 11/22/00 10:1	5 Received	1: 11/22/00 1	6:20	_				
Diesel Range Hydrocarbons	2440	50.0	mg/kg dry	5	0K29028	11/29/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	460	125	17		h		**	n 	
Surrogate: 2-FBP	%	50-150			"	"	"	"	S-01
Surrogate: Octacosane	89.6 %	50-150			"	"	"	"	
SB-39-5 (B0K0613-17) Soil Sa	mpled: 11/22/00 10:2	23 Receive	d: 11/22/00 1	16:20					
Diesel Range Hydrocarbons	1300	10.0	mg/kg dry	l	0K30024	11/30/00	12/02/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	157	25.0	n	**	"				
Surrogate: 2-FBP	%	50-150			"	,,	"	"	S-02
Surrogate: Octacosane	85.2 %	50-150			"	,,	"	"	
SB-39-10 (B0K0613-18) Soil S	Sampled: 11/22/00 10	:30 Receiv	ed: 11/22/00	16:20				_ .	
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
e Oil Range Hydrocarbons	ND	25.0	.н	"	···	n	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,		
ogate: 2-FBP	69.5 %	50-150			"	<i>n</i> .	"	"	
Surrogate: Octacosane	78.8 %	50-150			"	"	"	"	
SB-39-15 (B0K0613-19) Soil S	Sampled: 11/22/00 10	:33 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	n	II .	n	n		
Surrogate: 2-FBP	72.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	81.1 %	50-150			"	"	"	"	
SB-33-2 (B0K0613-20) Soil Sa	ampled: 11/22/00 11:	38 Receive	d: 11/22/00	16:20					
Diesel Range Hydrocarbons	60.5	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	123	25.0	11	"	"	n	н		
Surrogate: 2-FBP	81.4 %	50-150			"	"	"	. ,,	
Surrogate: Octacosane	98.4 %	50-150			"	"	"	"	

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-5 (B0K0613-21) Soil	Sampled: 11/22/00 11:4	4 Receive	d: 11/22/00 1	16:20				 	
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	<u> </u>
Lube Oil Range Hydrocarbons	ND	25.0		n	n	**	n	11	
Surrogate: 2-FBP	71.5 %	50-150			"	,,	,,	"	
Surrogate: Octacosane	79.8 %	5 0- 150			"	"	"	"	
SB-33-10 (B0K0613-22) Soil	Sampled: 11/22/00 11:	50 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	19	n	н	н	n	н	
Surrogate: 2-FBP	76.1 %	50-150			н	,,	n	,,	
Surrogate: Octacosane	85.2 %	50-150			"	"	**	,,	
SB-33-15 (B0K0613-23) Soil	Sampled: 11/22/00 11:	55 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	11	17	II	n	II	
Surrogate: 2-FBP	71.3 %	50-150			"	,,	"	"	
Surrogate: Octacosane	81.8 %	50-150			•	"	"	"	
SB-33-20 (B0K0613-24) Soil	Sampled: 11/22/00 12:	00 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K30012	11/30/00	12/02/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	11	17	ij	lt .	ii .	
Surrogate: 2-FBP	71.3 %	50-150			"	"	"	n	
Surrogate: Octacosane	90.4 %	50-150			"	"	"	"	
SB-33-25 (B0K0613-25) Soil	Sampled: 11/22/00 12:	05 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	h	11	n	17	n	n	
Surrogate: 2-FBP	73.3 %	50-150			"	"		"	
Surrogate: Octacosane	86.3 %	50-150			"	"	. "	,,	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

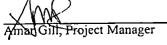
12/08/00 15:15

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-2 (B0K0613-26) Soil Sa	mpled: 11/22/00 13:2	22 Received	d: 11/22/00 1	16:20					
Diesel Range Hydrocarbons	1200	30.0	mg/kg dry	3	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	1910	75.0	M	••	D	н	**		
Surrogate: 2-FBP	92.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.0 %	50-150			**	"	"	"	
SB-34-5 (B0K0613-27) Soil Sa	mpled: 11/22/00 13:	27 Receive	d: 11/22/00	16:20					
Diesel Range Hydrocarbons	מא	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	ıı	tı	"	· · ·		"	
Surrogate: 2-FBP	65.2 %	50-150			"	"	11	"	
Surrogate: Octacosane	85.0 %	50-150			"	"	"	,,	
SB-34-10 (B0K0613-28) Soil S	ampled: 11/22/00 13	:32 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	I	0K30012	11/30/00	12/01/00	NWTPH-Dx	
e Oil Range Hydrocarbons	ND	25.0	"	**	31 		"	h	
ogate: 2-FBP	69.8 %	50-150			"	"	**	"	
Surrogate: Octacosane	81.6 %	50-150			"	"	"	"	
SB-34-15 (B0K0613-29) Soil S	Sampled: 11/22/00 13	:37 Receiv	ed: 11/22/00	16:20	_				
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	"	**	u	ıı	"		
Surrogate: 2-FBP	76.6 %	50-150			"	"	"	. "	
Surrogate: Octacosane	87.1 %	50-150			"	"	"	"	
SB-34-20 (B0K0613-30) Soil S	Sampled: 11/22/00 13	3:42 Receiv	ed: 11/22/00	16:20			<u></u>		
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	l	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	**	**	u	n 	H		
Surrogate: 2-FBP	71.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	85.2 %	50-150			"	"	"	"	

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

North Creek Analytical - Bothell

	R	eporting			<u> </u>				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-25 (B0K0613-31) Soil Sa	mpled: 11/22/00 13:47	Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	IF.	**	**	**	11	"	
Surrogate: 2-FBP	75.3 % 5	0-150			"	"	"	"	
Surrogate: Octacosane	86.2 % 5	0-150			"	"	"	"	
SB-35-2 (B0K0613-32) Soil San	npled: 11/22/00 14:30	Receive	d: 11/22/00 1	16:20					
Diesel Range Hydrocarbons	22.9	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	51.7	25.0	u	н		н	19	··	
Surrogate: 2-FBP	71.1 % 5	0-150			"	"	"	"	
Surrogate: Octacosane	87.5 % 5	0-150			"	"	"	"	
SB-35-5 (B0K0613-33) Soil Sar	mpled: 11/22/00 14:35	Receive	d: 11/22/00	16:20					
Diesel Range Hydrocarbons	1190	50.0	mg/kg dry	5	0K30012	11/30/00	12/01/00	NWTPH-Dx	-
Lube Oil Range Hydrocarbons	631	125	н		J1	" —-	··	···	<u></u>
Surrogate: 2-FBP	98.4 % 5	0-150			"	"	"	**	`
Surrogate: Octacosane	89.8 % 5	0-150			"	н	"	"	
SB-35-10 (B0K0613-34) Soil Sa	ampled: 11/22/00 14:4) Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	381	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	58.3	25.0	tr	*1	1 11	**	U	n	
Surrogate: 2-FBP	74.5 % 5	0-150			"	"		"	
Surrogate: Octacosane	91.0 %	0-150			"	"	"	#	
SB-35-15 (B0K0613-35) Soil Sa	ampled: 11/22/00 14:4	5 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	9440	210	mg/kg dry	21	0K30012	11/30/00	12/01/00	NWTPH-Dx	,
Lube Oil Range Hydrocarbons	1160	525	11	n	tr		"	11	
Surrogate: 2-FBP	% 3	0-150			"	"	"	"	S-01
Surrogate: Octacosane	96.7 %	0-150			"	**	"	"	•

North Creek Analytical - Bothell

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Gill, Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Reported:

12100 NE 195th Street

Project Number: n/a

12/08/00 15:15

Bothell WA, 98011

Project Manager: Bryan Graham

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3B-35-20 (B0K0613-36) Soil	Sampled: 11/22/00 14	4:50 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K30012	11/30/00	12/01/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	"	n ————————————————————————————————————	" 	. n		n	
Surrogate: 2-FBP	74.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	87.9 %	50-150			"	"	"	"	
SB-35-25 (B0K0613-37) Soil	Sampled: 11/22/00 1	4:55 Receiv	ed: 11/22/00	16:20					
Diesel Range Hydrocarbons	46.9	10.0	mg/kg dry	1	0K30012	11/30/00	12/02/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	n	и	н	n		
Surrogate: 2-FBP	84.0 %	50-150			11	"	"	"	
Surrogate: Octacosane	90.4 %	50-150			"	"	"	rr .	



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Re	porting							ŀ
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-31-2 (B0K0613-01) Soil	Sampled: 11/22/00 08:18	Receive	d: 11/22/00	16:20					
Lead	53.9	0.342	mg/kg dry	1	0L01039	12/01/00	12/03/00	EPA 6020	
SB-31-5 (B0K0613-02) Soil	Sampled: 11/22/00 08:23	Receive	d: 11/22/00	16:20					
Lead	5.18	0.329	mg/kg dry	1	0L01039	12/01/00	12/03/00	EPA 6020	
SB-31-10 (B0K0613-03) Soil	Sampled: 11/22/00 08:30	Receiv	ed: 11/22/00	16:20				<u></u>	
Lead	3.43	0.370	mg/kg dry	1	0L02017	12/02/00	12/04/00	EPA 6020	
SB-31-15 (B0K0613-04) Soil	Sampled: 11/22/00 08:35	Receiv	ed: 11/22/00	16:20	_				
Lead	2.30	0.347	mg/kg dry	1	0L02017	12/02/00	12/05/00	EPA 6020	
SB-31-20 (B0K0613-05) Soil	Sampled: 11/22/00 08:40	Receiv	ed: 11/22/00	16:20					_
Lead	2.14	0.357	mg/kg dry	1	0L02017	12/02/00	12/05/00	EPA 6020	
SB-31-25 (B0K0613-06) Soil	Sampled: 11/22/00 08:45	Receiv	ed: 11/22/00	16:20					
Lead	1.80	0.365	mg/kg dry	1	0L02017	12/02/00	12/05/00	EPA 6020	<u> </u>
SB-32-2 (B0K0613-07) Soil	Sampled: 11/22/00 09:50	Receive	d: 11/22/00	16:20					`
Silver	ND	0.360	mg/kg dry	1	0L02017	12/02/00	12/05/00	EPA 6020	
Arsenic	3.64	0.360	н	**	n	n	tr	i7	
Beryllium	ND	0.360	n	**	н	ti	ti	n	
Cadmium	ND	0.360	n	n	Ħ	n	n	н	
Chromium	37.1	0.360	n	n	**	n	n	"	
Copper	9.71	0.360	n	n	r	n	"	n	
Mercury	ND	0.100	n	**	0L05037	12/05/00	12/06/00	EPA 7471A	
Nickel	37.4	0.360	**	n	.0L02017	12/02/00	12/05/00	EPA 6020	
Lead	2.91	0.360	11	**	n	n	n	Ħ	
Antimony	ND	0.360	н	**	n	ti	"	n n	
Selenium	ND	0.360	H	н	n	ħ	11	n	
Thallium	ND	0.360	n	**	"	"	"	n	
Zinc	36.3	3.60	n	**	n	п	n	n	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

SB-32-5 (B0K0613-08) Soil Sampled: 11/22/00 09:54 Received: 11/22/00 16:20	Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Silver		<u> </u>								
Arsenic 2.69 0.350 " " " " " " " " " " " " " " " " " " "	3B-32-5 (B0K0613-08) Soil	Sampled: 11/22/00 09:54	Received	1: 11/22/00 1	6:20	_				
Arsenic 2.69 0.350 " " " " " " " " " " " " " " " " " " "	Silver	ND	0.350	mg/kg dry	3	0L02017	12/02/00			
ND	Arsenic	2.69	0.350	11	n	*1				
Cadmium ND 0.350 " <t< td=""><td>Beryllium</td><td>ND</td><td>0.350</td><td>**</td><td>"</td><td>и</td><td>*1</td><td></td><td></td><td></td></t<>	Beryllium	ND	0.350	**	"	и	*1			
Chromium	Cadmium	ND	0.350	11	**	"	h			
Copper		41.4	0.350	v	п	11	11	•	11	
Mercury ND 0.100 " 0L05037 12/05/00 12/06/00 EPA 7471A Nickel 57.1 0.350 " 0L02017 12/02/00 12/05/00 EPA 6020 Lead 3.45 0.350 " <		27.1	0.350		n	н		10	n	
Nickel 57.1 0.350 " 0L02017 12/02/00 12/05/00 EPA 6020	• •	ND	0.100	n	"	0L05037	12/05/00	12/06/00	EPA 7471A	
Antimony ND 0.350 " " " " " " " " " " " " " " " " " "	•	57.1	0.350	H	lt .	0L02017	12/02/00	12/05/00	EPA 6020	
Antimony ND 0.350 " " " " " " " " " " " " " " " " " " "			0.350	n	11	17	77	ti	n	
Selenium			0.350	11	n	u	17	"	n	
Thallium	-		0.350	"	n	**	ti	"	11	
2-10 (B0K0613-09) Soil Sampled: 11/22/00 10:02 Received: 11/22/00 16:20 Silver ND 0.340 mg/kg dry 1 0L02017 12/02/00 12/05/00 EPA 6020 Arsenic 4.07 0.340 " " " " " " " " " " " " " " " " " " "		ND	0.350	H	ų	н	n	11	н	
Silver ND 0.340 mg/kg dry 1 0L02017 12/02/00 12/05/00 EPA 6020 Arsenic 4.07 0.340 " " " " " " " " " " " " " " " " " " "	,			U	11	**	n	II	u	
Silver ND 0.340 mg/kg dry 1 0L02017 12/02/00 12/05/00 EPA 6020 Arsenic 4.07 0.340 "	2-10 (B0K0613-09) Soil	Sampled: 11/22/00 10:02	Receiv	ed: 11/22/00	16:20				_	_
Arsenic 4.07 0.340 " " " " " " " " " " " " " " " " " " "				mg/kg dry	1	0L02017	12/02/00	12/05/00	EPA 6020	
Beryllium 0.392 0.340 " " " " " " " " " " " " " " " " " " "					n	**	н	II.	u	
Cadmium 0.467 0.340 "			0.340	H	17	n	11	11	n	
Chromium 52.3 0.340 " " " " " " " " " " " " " " " " " " "	•			11	n	*1	H	н	n	
Copper 35.0 0.340 " <	r			n	18	n.	*11	11	**	
Mercury ND 0.100 " " 0L05037 12/05/00 12/06/00 EPA 7471A Nickel 81.1 0.340 " 0L02017 12/02/00 12/05/00 EPA 6020 Lead 5.28 0.340 " " " " " " " " " " " " " " " " " " "	j.			**	н	**	n	н	н	
Nickel 81.1 0.340 " " 0L02017 12/02/00 12/05/00 EPA 6020 Lead 5.28 0.340 "	- -			n	H	0L05037	12/05/00	12/06/00	EPA 7471A	
Lead 5.28 0.340 " <th< td=""><td></td><td></td><td></td><td>н</td><td>**</td><td>0L02017</td><td>12/02/00</td><td>12/05/00</td><td>EPA 6020</td><td></td></th<>				н	**	0L02017	12/02/00	12/05/00	EPA 6020	
Antimony ND 0.340 " " " " " " " " " " " " " " " " " " "				n	lT .		**	н	n	
Selenium ND 0.340 " " " " " " Thallium ND 0.340 " " " " " " " " " " " " " " " " " " "				n	11	n	**	11	11	
Thallium ND 0.340 " " " " " " " " " " " " " " " " " " "	•			"	10	и	п	H	IF.	
710011011	=			"	n	n	**	tt .	U	
	Zinc	69.9	3.40	u	н	**	11	n	11	

h Creek Analytical - Bothell

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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

		porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-15 (B0K0613-10) Soil	Sampled: 11/22/00 10:10	Receiv	ed: 11/22/00	16:20				•	
Silver	ND	0.376	mg/kg dry	1	0L02017	12/02/00	12/05/00	EPA 6020	
Arsenic	2.52	0.376	n	n	Ħ	Ħ	11	19	
Beryllium	ND	0.376	n	11	n	**	n	h	
Cadmium	ND	0.376	u	n	71		11	n	
Chromium	37.4	0.376	*	11	**	H	11	н	
Copper	21.8	0.376	**	II	19	l†	tı	n	
Mercury	ND	0.100	*	Ħ	0L05037	12/05/00	12/06/00	EPA 7471A	
Nickel	51.5	0.376	n	11	0L02017	12/02/00	12/05/00	EPA 6020	
Lead	2.89	0.376	н	11	n	п	17	n	
Antimony	ND	0.376	**	19	"	n	17	n	
Selenium	ND	0.376	н	n	"	71	n	n	
Thallium	ND	0.376	H	#	**	n	H	n	
Zine	43.9	3.76	17	n	н	n	H	H	
SB-32-20 (B0K0613-11) Soil	Sampled: 11/22/00 10:15	Receiv	ed: 11/22/00	16:20					
Silver	ND	0.345	mg/kg dry	1	0L02017	12/02/00	12/05/00	EPA 6020	
Arsenic	2.49	0.345	n	"	**	n	ŧı	n	
Beryllium	ND	0.345	n	n	17	n	**	n	
Cadmium	ND	0.345		"	"	17	1+	n	
Chromium	30.3	0.345	II .	n	n	D	17	n	
Copper	15.6	0.345	**	n	n	11	H	Ħ	
Mercury	ND	0.100	h	н	0L05037	12/05/00	12/06/00	EPA 7471A	
Nickel	40.8	0.345	**	**	0L02017	12/02/00	12/05/00	EPA 6020	
Lead	2.15	0.345	•	17	**	n	Ħ	**	
Antimony	ND	0.345	"	n	**	H	n	n	
Selenium	0.455	0.345	**	Ħ	"	17	**	n	
Thallium	ND	0.345	**	n	**	11	H	Ħ	
Zinc	33.3	3.45	11	19	11	17	17	H	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Re	porting						34.1.3	31
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-25 (B0K0613-12) Soil	Sampled: 11/22/00 10:20	Receive	ed: 11/22/00	16:20					
Silver	ND	0.345	mg/kg dry	1	0L02017	12/02/00	12/05/00	EPA 6020	
Arsenic	2.47	0.345	It	Ħ	n	n	t7	n	
Beryllium	ND	0.345	ti		n	н	**	11	
Cadmium	ND	0.345	n	n	11	l7	•	н	
Chromium	24.0	0.345	n	11	"	11	11	H	
Copper	12.5	0.345	Ħ	ıı	"	n		77	
Mercury	ND	0.100	н	**	0L05037	12/05/00	12/06/00	EPA 7471A	
Nickel	33.9	0.345	n	n	0L02017	12/02/00	12/05/00	EPA 6020	
Lead	1.77	0.345	"	п	n	Ħ	n	n	
Antimony	ND	0.345	u	11	11	н	. н	n	
Selenium	ND	0.345		19	h	11	11	n	
'Thallium	ND	0.345	H	n	11	u	11	l7	
7. (1)	27.9	3.45	n	н	n	"	11	**	
J2-2 (B0K0613-13) Soil	Sampled: 11/22/00 08:12	Receive	d: 11/22/00	16:20					
Lead	3.48	0.365	mg/kg dry	1	0L02017	12/02/00	12/05/00	EPA 6020	
SB-42-5 (B0K0613-14) Soil	Sampled: 11/22/00 08:22	Receive	d: 11/22/00	16:20					
Lead	2.33	0.360	mg/kg dry	1	0L02017	12/02/00	12/05/00	EPA 6020	
SB-42-10 (B0K0613-15) Soil	Sampled: 11/22/00 08:28	Receiv	ed: 11/22/00	16:20					
Lead	2.06	0.350	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
SB-39-2 (B0K0613-16) Soil	Sampled: 11/22/00 10:15	Receive	d: 11/22/00	16:20					
Lead	5.73	0.360	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a Project Manager: Bryan Graham Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

		porting	<u> </u>						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-39-5 (B0K0613-17) Soil	Sampled: 11/22/00 10:23	Receive	d: 11/22/00 1	6:20				_	
Lead	3.68	0.352	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
SB-39-10 (B0K0613-18) Soil	Sampled: 11/22/00 10:30	Receiv	ed: 11/22/00	16:20					
Lead	4.80	0.360	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
SB-39-15 (B0K0613-19) Soil	Sampled: 11/22/00 10:33	Receiv	ed: 11/22/00	16:20					
Lead	2.47	0.333	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
SB-33-2 (B0K0613-20) Soil	Sampled: 11/22/00 11:38	Receive	d: 11/22/00 1	6:20					
Silver	ND	0.312	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
Arsenic	4.23	0.312	h	**	**	11	*1	is	
Beryllium	0.379	0.312	h	*1	ti	•	**	n ·	
Cadmium	0.557	0.312	**	**	H	μ	••	n	
Chromium	46.8	0.312	ti	**	11	h	n	n	2 -
Copper	19.8	0.312	II .	**	11		"	n	,
Mercury	ND	0.100	17	н	0L05037	12/05/00	12/06/00	EPA 7471A	\ \ \ \
Nickel .	37.3	0.312	D	n	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	8.46	0.312	ti	**	n	H	h	ti	
Antimony	ND	0.312	n	**	n	n	11	n	
Selenium	ND	0.312	11	11	11	n	11	n	
Thallium	ND	0.312	n	11	n	n	n	π	
Zinc	78.5	3.12	11	n	*	n	n	n	
SB-33-5 (B0K0613-21) Soil	Sampled: 11/22/00 11:44	Receive	d: 11/22/00 1	6:20					
Silver	ND	0.347	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
Arsenic	2.07	0.347	"	n	77	Ħ	ы	n	
Beryllium	ND	0.347	**	n	+1	n	Ħ	n	
Cadmium	0.637	0.347	n	n	n	n	Ħ	n	
Chromium	46.5	0.347	H	n	*1	lt.	**	**	
Copper	13.1	0.347	n	n	n	11	n	11	
Mercury	ND	0.100	n	n	0L05037	12/05/00	12/06/00	EPA 7471A	
Nickel	37.5	0.347	n	H	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	2.22	0.347	0	II	ŧ	19	n	n	
Antimony	ND	0.347	tr	n	н	11	11	n	
Selenium	ND	0.347	n	11	n	11	n	n	
Thallium	ND	0.347	n	II	n	11	Ħ	n	
	30.3								

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Rep	orting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-10 (B0K0613-22) Soil	Sampled: 11/22/00 11:50	Receiv	ed: 11/22/00	16:20					
Silver	ND	0.331	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	•
Arsenic	³3.08	0.331	п	n	17	"	by	n	
Beryllium	ND	0.331	n	tt	*1	**	n	11	
Cadmium	0.728	0.331	**	**	ti	n	**	н	
Chromium	41.3	0.331	n	v	"	n	17	U	
Copper	24.1	0.331		n	n	**	u	71	
Mercury	ND	0.100	**	tı.	0L05037	12/05/00	12/06/00	EPA 7471A	
Nickel	60.9	0.331	n	n	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	2.99	0.331	**	н	D	h	n	H	
Antimony	ND	0.331	"	*	u	n	D	н	
Selenium	ND	0.331	**	*1	н	**	n	rr	
Thallium	ND	0.331	"	II	H	P	**	n	
7ina	44.4	3.31	li .	н	v	**	n	11	
3-15 (B0K0613-23) Soil	Sampled: 11/22/00 11:55	Receiv	ed: 11/22/00	16:20					
Silver	ND	0.345	mg/kg dry]	0L02018	12/02/00	12/05/00	EPA 6020	
Arsenic	8.16	0.345	**	11	n	**	n	11	
Beryllium	0.377	0.345	**	**	11	н	11	n	
Cadmium	0.654	0.345	**	H	n	Ħ	n	H	
Chromium	63.6	0.345	n	n	11	**		"	
Copper	47.8	0.345	11	Ħ	11	h	n	н	
Mercury	ND	0.100	Ħ	n	0L05037	12/05/00	12/06/00	EPA 7471A	
Nickel	72.3	0.345	**	n	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	6.92	0.345	n	11	Ħ	n	11	*1	
Antimony	ND	0.345	n	U	n	ıı	n	v	
Selenium	0.580	0.345	"	**	"	n	n	**	
Thallium	ND	0.345	•	и	н	н	n	n	
Zinc	74.2	3.45	11	n	n	u	n .	u	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

		porting	77 - 14 -	Ditai	Detak	D	A = -11	24-45-4	NI-
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-20 (B0K0613-24) Soil	Sampled: 11/22/00 12:00	Receiv	ed: 11/22/00	16:20					
Silver	ND	0.360	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
Arsenic	2.73	0.360	n	n	Ħ	n	n	н	
Beryllium	ND	0.360	n	n	Ħ	, "	н	n	
Cadmium	0.493	0.360	**	n	**	b	n	11	
Chromium	36.6	0.360	**	D	n	h	b	Ħ	
Copper	18.7	0.360	#1	h	19	17		ħ	
Mercury	ND	0.100	и	*	0L07015	12/07/00	12/08/00	EPA 7471A	
Nickel	50.1	0.360	n	**	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	2.49	0.360	u	n	Ħ	**	Þ	Ħ	
Antimony	ND	0.360		n	*1	**	H	Ħ	
Selenium	ND	0.360	Ħ	ir .	"	n	17	n	
Thallium	ND	0.360	n	u	n	n	u	н	
Zinc	39.0	3.60	u	n	n	"	**	11	٠- ۷
SB-33-25 (B0K0613-25) Soil	Sampled: 11/22/00 12:05	Receiv	ed: 11/22/00	16:20					
Silver	ND	0.362	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
Arsenic	7.41	0.362	11	H	u	ti	н	π	
Beryllium	ND	0.362	n	n	N	n	n	Ħ	
Cadmium	ND	0.362	n	n	11	11	n	n	
Chromium	29.9	0.362	n	n	н	b	n	п	
Copper	15.0	0.362	n	n	n	"	•	n	
Mercury	ND	0.100	*1	u	0L07015	12/07/00	12/08/00	EPA 7471A	
Nickel	46.0	0.362	n	Ħ	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	1.95	0.362	11	19	n	**	и	ч	
Antimony	ND	0.362	н	ı	11	ly .	n	Ħ	
Selenium	ND	0.362	н	17	н	D	п	n	
Thallium	ND	0.362	11	H	*1	н	n	IT .	
Zinc	31.8	3.62	11	**	n	n	tt	u	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase Il

12100 NE 195th Street

Project Number: n/a

Reported:

Project Manager: Bryan Graham Bothell WA, 98011

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-2 (B0K0613-26) Soil	Sampled: 11/22/00 13:22	Received	1: 11/22/00 1	6:20					
Silver	ND	0.365	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
Arsenic	7.38	0.365	u	n	H	17	H	n	
Beryllium	0.463	0.365	n	17	"	n	11	11	
Cadmium	0.712	0.365	n	**	н	**	н	Þ	
Chromium	54.7	0.365	n .	n	"	u	n	ti	
Copper	21.3	0.365	n	ŋ	n	"	H	H	
Mercury	ND	0.100	**	n	0L07015	12/07/00	12/08/00	EPA 7471A	
Nickel	50.8	0.365	n .	ıı	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	17.1	0.365	11	"	**	"	b	U	
Antimony	ND	0.365	n	n	11	**	11	11	
Selenium	ND	0.365	n	11	H	Ħ	h	n	
Thallium	ND	0.365		и	11	11	11	11	
Thamain Zinc	105	3.65	**	n	n	11	n	n	
	0 1 1 11/00/00 12:27		d: 11/22/00	16.20		•			
34-5 (B0K0613-27) Soil	Sampled: 11/22/00 13:27				01.00010	12/02/00	12/05/00	EPA 6020	
Silver	ND	0.355	mg/kg dry	1	0L02018	12/02/00	12/03/00	EFA 0020	
Arsenic	2.26	0.355			" **	 II	0	- "	
Beryllium	ND	0.355		" "			,	11	
Cadmium	ND	0.355	**	"	,,	 II		n	
Chromium	28.8	0.355	**		"		11	**	
Copper	13.0	0.355	**	h				EPA 7471A	
Mercury	ND	0.100	77	11	0L07015	12/07/00	12/08/00		
Nickel	41.6	0.355	tt	"	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	2.26	0.355	71	**	**	17	. ,	 tı	•
Antimony	ND	0.355	"	Ħ	"	"	" "	71	
Selenium	ND	0.355	**	ti			"		•
Thallium	ND	0.355	II .		"	n 	"	"	
Zinc	30.7	3.55	"	u	11	**	"		

th Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network**

Page 31 of 132



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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

	Re	porting					<u> </u>		_
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-10 (B0K0613-28) Soil	Sampled: 11/22/00 13:32	Receive	ed: 11/22/00	16:20		·			
Silver	ND	0.362	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
Arsenic	3.81	0.362	n	n	71	n	**	•	
Beryllium	ND	0.362	I)	n	n '	h	n	п	
Cadmium	0.488	0.362	n	n	**	n	11	"	
Chromium	46.5	0.362	n	m	**	n	11	п	
Copper	30.3	0.362	11	n	**	11	11	n	
Mercury	ND	0.100	u	n	0L07015	12/07/00	12/08/00	EPA 7471A	
Nickel	68.7	0.362	n	n	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	3.62	0.362	" ,	n	**	n	н	n	
Antimony	ND	0.362	n	n	**	**	**	r	
Selenium	ND	0.362	n	Ħ	#1	n	17	n	
Thallium	ND	0.362	n	n	Ħ	H	н	H	
Zinc	53.2	3.62	17	n	Ħ	n	ŧı		/
SB-34-15 (B0K0613-29) Soil	Sampled: 11/22/00 13:37	Receive	ed: 11/22/00	16:20					
Silver	ND	0.345	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
Arsenic	2.30	0.345	"	p	**	11	н	H	
Beryllium	ND	0.345	n	D	#1	n	17	*	
Cadmium	ND	0.345	и	n	*		**		
Chromium	40.5	0.345	t†	n	*	n	**	n	
Copper	21.4	0.345	,	ŧŧ	p	u	**	n	
Mercury	ND	0.100	n	н	0L07015	12/07/00	12/08/00	EPA 7471A	
Nickel	55.7	0.345	**	n	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	2.82	0.345	п	n	**	n	17	m .	
Antimony	ND	0.345	n	n	ħ	n	h	n	
Selenium	ND	0.345	ħ	n	*1	n	Ħ	ır	
Thallium	ND	0.345	n	n	77	n	11	ı	
Zinc	43.0	3.45	11	n	н	n	Ħ	lt.	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a Project Manager: Bryan Graham Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

		orting							
Analyte	Result	Limit_	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-20 (B0K0613-30) Soil	Sampled: 11/22/00 13:42	Receiv	ed: 11/22/00	16:20					
Silver	ND	0.325	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
Arsenic	1.80	0.325	n	IT	Ħ	U	н	н	
Beryllium	ND	0.325	n.	n	**	**	и	lt .	
Cadmium	ND	0.325	11	11	••	**	11	**	
Chromium	34.0	0.325	11	H	71	**		"	
Copper	16.4	0.325	17	n	n	Ħ	**	н	
Mercury	ND	0.100	•	17	0L07015	12/07/00	12/08/00	EPA 7471A	
Nickel	46.8	0.325	н	n	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	2.30	0.325	11	11	n	n	n	11	
Antimony	ND	0.325	n	#		11	11	n	
Selenium	ND	0.325	n	n	n	b	n	n	
Thallium	ND	0.325	u	n	n	11	н	n	
₹1000 ± 1000 ±	34.8	3.25	11	**	n	н	h	n	
34-25 (B0K0613-31) Soil	Sampled: 11/22/00 13:47	Receiv	ed: 11/22/00	16:20					
Silver	ND	0.365	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
Arsenic	3.82	0.365	Ħ	"	n	**	**	n	
Beryllium	ND	0.365	tı	v	11	"	н	n	
Cadmium	ND	0.365	"	**	*1	n	н	н	
Chromium	29.4	0.365	n	n	н	u	n	n	
Copper	16.4	0.365	71	u	н	**	h	**	
Mercury	ND	0.100	91	**	0L07015	12/07/00	12/08/00	EPA 7471A	
Nickel	41.8	0.365	n	и	0L02018	12/02/00	12/05/00	EPA 6020	
Lead	1.95	0.365	н	ıt	н	11	11	n	
Antimony	ND	0.365	*1	II.	Ħ	11	Ħ	**	
Selenium	ND	0.365	11	"		n	н	n	
Thallium	ND	0.365	**	н	**	n	"	н	
Zinc	31.6	3.65	11	17	н	Ħ	n	u	

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Re	porting							
Analyte .	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-35-2 (B0K0613-32) Soil	Sampled: 11/22/00 14:30	Receive	d: 11/22/00	16:20					
Lead	115	0.345	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
SB-35-5 (B0K0613-33) Soil	Sampled: 11/22/00 14:35	Receive	d: 11/22/00	16:20					
Lead	26.6	0.362	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
SB-35-10 (B0K0613-34) Soil	Sampled: 11/22/00 14:40	Receiv	ed: 11/22/00	16:20					
Lead	12.9	0.362	mg/kg dry	1	0L02018	12/02/00	12/05/00	EPA 6020	
SB-35-15 (B0K0613-35) Soil	Sampled: 11/22/00 14:45	Receiv	ed: 11/22/00	16:20					
Lead	2.68	0.350	mg/kg dry	1	0L02019	12/02/00	12/05/00	EPA 6020	
SB-35-20 (B0K0613-36) Soil	Sampled: 11/22/00 14:50	Receiv	ed: 11/22/00	16:20					
Lead	2.22	0.347	mg/kg dry	1	0L02019	12/02/00	12/05/00	EPA 6020	
SB-35-25 (B0K0613-37) Soil	Sampled: 11/22/00 14:55	Receiv	ed: 11/22/00	16:20					
Lead	2.07	0.321	mg/kg dry	1	0L02019	12/02/00	12/05/00	EPA 6020	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	<u> </u>		1. 11/23/00 1	16.20	_	-	-		
	Sampled: 11/22/00 09:50				0720022	11/27/00	12/01/00	EPA 8260B	
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8200B	
Benzene	ND	0.100	"	"	n	"	 U	II.	
Bromobenzene	ND	0.100	,,	"	 17		,,	ti	
Bromochloromethane	ND	0.100	" "	" n	17		**	**	
Bromodichloromethane	ND	0.100		"	**		" n	.,	
Bromoform	ND	0.100		"	,,	*	"	 m	
Bromomethane	ND	0.100	H	**	,,	,,	,,	"	
2-Butanone	ND	1.00	Ħ						
n-Butylbenzene	ND	0.100	n	"	11	n	*13	ti M	
sec-Butylbenzene	ND	0.100	n	**	"	n	n	-	
tert-Butylbenzene	ND	0.100	"	"	**	n	Ħ	11	
Carbon disulfide	ND	0.100	"	n	**	"		*1	
on tetrachloride	ND	0.100	11	n	"	н	**	n	
robenzene	ND	0.100	11	11	11	н	,,	u u	
Chioroethane	ND	0.100	"	n	u	D	*	11	
Chloroform	ND	0.100	n	n	11	**	**	n	
Chloromethane	ND	0.500		H	H	n	u	Ħ	
2-Chlorotoluene	ND	0.100	"	n	ıı	"		n	
4-Chlorotoluene	ND	0.100	**	71	11	11	н .	н	
Dibromochloromethane	ND	0.100	H	Ħ	n	*1	tr .	n	
1,2-Dibromo-3-chloropropane	ND	0.500	**	tr	b)	н	**	"	
1,2-Dibromoethane	ND	0.100	19	n n	*	n	**	u	
Dibromomethane	ND	0.100		**	Ħ	Ħ	н		
1,2-Dichlorobenzene	ND	0.100	n	"	Ħ	m	n	n	
1,3-Dichlorobenzene	ND	0.100	h	n	p	tr.	u	n	
1.4-Dichlorobenzene	ND	0.100	11	ıı	e	'n	11	n	
Dichlorodifluoromethane	ND	0.100	u	tt	**	n	19	н	
1,1-Dichloroethane	ND	0.100		**	n	н	19	н	
1,2-Dichloroethane	ND	0.100		**	h	"	D	n	
1,1-Dichloroethene	ND	0.100	10	11	D	n	u	"	
cis-1,2-Dichloroethene	ND	0.100	11	17	n	ŧr	ti	n	
trans-1,2-Dichloroethene	ND	0.100	11	11	**	**	n	11	
1,2-Dichloropropane	ND	0.100	n	n		#	н	**	
	ИD	0.100	н	п	11	tı	n	n	
1,3-Dichloropropane	ND	0.100		11	11	11	n	ш	
2,2-Dichloropropane	ND ND	0.100	11	"	n	**	**	n	
1,1-Dichloropropene			11	n	н	11	н	11	
cis-1,3-Dichloropropene	ND	0.100		 11			,,	н	
trans-1,3-Dichloropropene	ND	0.100	"	•	•		••		

h Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-2 (B0K0613-07) Soil	Sampled: 11/22/00 09:50	Receive	d: 11/22/00	16:20	,				
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	n	Ħ	17	n	n	11	
2-Hexanone	ND	1.00	н	u	**	n	"	U	
Isopropylbenzene	ND	0.100	u	н	**	н	11	H	
p-Isopropyltoluene	ND	0.100	n	Ħ	"	11	**	**	•
Methylene chloride	ND	1.00	**	**	n	**	**	**	
4-Methyl-2-pentanone	ND	1.00	"	n	u	**	n	•)	
Naphthalene	ND	0.100	Ħ	"	**	"	h	n	
n-Propylbenzene	ND	0.100	Ħ	17	u	"	u	'n	
Styrene	ND	0.100	II	11	tt	lt .	"	u	
1,1,1,2-Tetrachloroethane	ND	0.100	1*	17	н	II	11	**	
1,1,2,2-Tetrachloroethane	ND	0.100	и	n	**	n	**	n	
Tetrachloroethene	ND	0.100	n	ıı	**	ti	**	tt	1
Toluene	ND	0.100	IT	n	91	Ħ	11	Ħ	1
1,2,3-Trichlorobenzene	ND	0.100	n	n	17	**	tr .	e to	
1,2,4-Trichlorobenzene	ND	0.100	n	11	n	**	n	II	
1,1,1-Trichloroethane	ND	0.100	n	n	11	Ħ	n	n	
1,1,2-Trichloroethane	ND	0.100	lir	n	**	*1	**	11	
Trichloroethene	ND	0.100	n	н	"	H	11	**	
Trichlorofluoromethane	ND	0.100	n	**	11	n	n	11	
1,2,3-Trichloropropane	ND	0.100	*11	11	U	n	н	n	
1,2,4-Trimethylbenzene	ND	0.100	11	п	n	n	h	n	
1,3,5-Trimethylbenzene	ND	0.100	***	11	ti	n	*1	H	
Vinyl chloride	ND	0.100	71	l 1	**	n	n	н	
m,p-Xylene	ND	0.200	n	19	*1	n	,	11	
o-Xylene	ND	0.100	11	n	H	н	n	н	
Surrogate: 1,2-DCA-d4	== : : :	70-130			n	"	"	"	
Surrogate: Toluene-d8		70-130			"	*	n	"	
Surrogate: 4-BFB	87.0 %	70-130			n	"	"	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-32-5 (B0K0613-08) Soil	Sampled: 11/22/00 09:54	Receive	d: 11/22/00	16:20					
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Benzene	ND	0.100	n	U	**	Ħ	II .	и	
Bromobenzene	ND	0.100	11	**	11	h	71	u	
Bromochloromethane	ND	0.100	It	n	n	n	n	11	•
Bromodichloromethane	ND	0.100	11	17	"	**	**	n	
Bromoform	ND	0.100	**	Ħ	"	17	**	n	
Bromomethane	ND	0.100	n	n	н	H	,	H	
2-Butanone	ND	1.00	1)	lt .	11	*1	n	11	
n-Butylbenzene	ND	0.100	*1	U	II	n	11	n	
sec-Butylbenzene	ND	0.100	n	**	11	tr	н	II	
tert-Butylbenzene	ND	0.100	U	**	**	"	19	Ħ	
Carbon disulfide	ND	0.100	11	n	"	n	**	H	
on tetrachloride	ND	0.100	n	U	n		11	U	
robenzene	ND	0.100	H	н	Ħ	"	h	Ħ	
Chioroethane	ND '	0.100	и.	17	"	11	u	n	
Chloroform	ND	0.100	H	"	"	11	11	D	
Chloromethane	· ND	0.500	II .	11	n	11	n	ti .	
2-Chlorotoluene	ND	0.100	**	n	n	н	11	и	
4-Chlorotoluene	ND	0.100	11	u	11	, "	*	ii .	
Dibromochloromethane	ND	0.100	n	н	11	n		11	
1,2-Dibromo-3-chloropropane	e ND	0.500	11	II.	17	**	17	n	
1,2-Dibromoethane	ND	0.100	н	n	u	u	**	**	
Dibromomethane	ND	0.100	n	H	li .	**	**	n	
1,2-Dichlorobenzene	. ND	0.100	Ħ	n	n	11	n	ir.	
1,3-Dichlorobenzene	ND	0.100	II	ti	11	n	IT	ti	
1,4-Dichlorobenzene	ND	0.100	n	M	*1	,,		17	
Dichlorodifluoromethane	ND	0.100	н		n	n	н		
1,1-Dichloroethane	ND	0.100	н.	h	Ħ	n	n	н	
1,2-Dichloroethane	ND	0.100	"	**	*1	**	11	n	
1,1-Dichloroethene	ND	0.100	11	n	и	n	n	n	
cis-1,2-Dichloroethene	ND	0.100	n	ir	H	n	n .	n	
trans-1,2-Dichloroethene	ND	0.100	н	n	**	11	n	n	
1,2-Dichloropropane	ND	0.100	11	н	n	**	11	H	
1,3-Dichloropropane	ND	0.100		17	n	n	•	**	
2,2-Dichloropropane	ND	0.100	n	n		11	11	n	
1,1-Dichloropropene	ND	0.100		**	н	н	н	n	
	ND	0.100		n	17	n	ır	11	
cis-1,3-Dichloropropene trans-1,3-Dichloropropene	ND ND	0.100		tr	н	u	11	n	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

		eporting Limit	Units	Dilution	Batch	Dranged	Analyzed	Method	Notes
Analyte	Result	Limit	Units	תסוזטווכו	Batch	Prepared	Analyzed		Notes
SB-32-5 (B0K0613-08) Soil	Sampled: 11/22/00 09:54	Receive	d: 11/22/00 1	16:20				1	
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	-
Hexachlorobutadiene	ND	0.100	U	11	n	**	II .	п	
2-Hexanone	ND	1.00	**	**	n	11	11	n	•
Isopropylbenzene	ND	0.100	**	Ħ	"	n	**	11	
p-Isopropyltoluene	ND	0.100	Ħ	н	41	W	H	n	
Methylene chloride	ND	1.00	"	**	**	**	n	. 19	
4-Methyl-2-pentanone	ND	1.00	"	**	n	*1	**	111	
Naphthalene	ND	0.100	n	71	n	ħ	**	•	
n-Propylbenzene	ND	0.100	н	n	n	17	19	n	
Styrene	ND	0.100	11	tr.	U	11	,	'n	
1,1,1,2-Tetrachloroethane	ND	0.100	u	h	11	p	17	н	
1,1,2,2-Tetrachloroethane	ND	0.100	n	ti	11	**	н	h	
Tetrachloroethene	ND	0.100	n	Ħ	**	**	tr	n	~~ <
Toluene	ND	0.100	n	н	n	ħ	n	11	1
1,2,3-Trichlorobenzene	ND	0.100	n	tı	41	n	#	**	See
1,2,4-Trichlorobenzene	ND	0.100	n	ıı	n	**	**	**	
1,1,1-Trichloroethane	ND	0.100	n	n	11	11	"	я	
1,1,2-Trichloroethane	ND	0.100	n	u	**	U	"	п	
Trichloroethene	ND	0.100	*1	n	**	11	n	17	
Trichlorofluoromethane	ND	0.100	11	**	11	"	n	D	
1,2,3-Trichloropropane	ND	0.100	"	"	11	n	п	Ħ	
1,2,4-Trimethylbenzene	ND	0.100	n		Ħ	ıı	11	п	
1,3,5-Trimethylbenzene	ND	0.100	11	n	**	**	••	n	
Vinyl chloride	ND	0.100	n	n	**	**	. "	,	
m,p-Xylene	ND	0.200	n	ti	**	**	**	,	
o-Xylene	ND	0.100	u	tr	n	11	11	н	_
Surrogate: 1,2-DCA-d4	•	70-130			"	'n	"	"	
Surrogate: Toluene-d8	011,71	70-130			"	"	"	"	
Surrogate: 4-BFB	80.3 %	70-130			"	"	"	n	

North Creek Analytical - Bothell

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 fax 541,387,7588

Spokane

Portland

541,383.9310 fax 541,382,7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

	Re	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-10 (B0K0613-09) Soil	Sampled: 11/22/00 10:02	Receiv	ed: 11/22/00	16:20					
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Benzene	, ND	0.100	n	n	n	n	н	n	
Bromobenzene	ND	0.100	n	n	11	II .	Ħ	16	
Bromochloromethane	ND	0.100	"	**	H	11	n	n	
Bromodichloromethane	ND	0.100	n	н	It	н	n	n	
Bromoform	ND	0.100		n	u	17	n	**	
Bromomethane	ND	0.100	**	D	**	þ	"	11	
2-Butanone	ND	1.00	**	n	**	u	**	n -	
n-Butylbenzene	ND	0.100	Ħ	**	n	"	**	,	
sec-Butylbenzene	ND	0.100	m	11	Ħ	**	**	•	
tert-Butylbenzene	ND	0.100	IT	н	H	*1	н	u	
Carbon disulfide	ND	0.100	w	n	"	n		*	
on tetrachloride	ND	0.100	11		, 11	n	•	n	
robenzene	ND	0.100	11	h	11	n	•	n	
Unioroethane	ND	0.100	n	н	11	"	n	l7	
Chloroform	ND	0.100	11	**	n	**	**	11	
Chloromethane	ND	0.500	H	n	H	**	n	**	
2-Chlorotoluene	ND	0.100	U	n	17	**	•	**	
4-Chlorotoluene	ND	0.100	**	11	U	n	u	и	
Dibromochloromethane	ND	0.100	ħ	**	11	U	17	10	
1,2-Dibromo-3-chloropropane	ND	0.500	n	n	ti	**	**	11	
1,2-Dibromoethane	ND	0.100		n	n	n	n	и	
Dibromomethane	ND	0.100	**	17	17	n	n	Ħ	
1,2-Dichlorobenzene	ND	0.100	*1	п	**	n	17	n	
1,3-Dichlorobenzene	ND	0.100	11	n	n	n	17	u	
1,4-Dichlorobenzene	ND	0.100	"	11	н	Ħ	**	tı	
Dichlorodifluoromethane	ND	0.100	·	**	н	11	**	n	
1,1-Dichloroethane	ND	0.100	**	17	11	11	11	n	
1,2-Dichloroethane	ND	0.100	n	17	"	"	17	b	
1,1-Dichloroethene	ND	0.100	Ħ	17	n	n	D	**	
cis-1,2-Dichloroethene	ND	0.100	**	D	**	n	11	11	
trans-1,2-Dichloroethene	ND	0.100	**	n	n	U	ti	n	
1,2-Dichloropropane	ND	0.100	11	H	h	n	11	n	
1,3-Dichloropropane	ND	0.100	11	н	17	n	н	n	
2,2-Dichloropropane	ND	0.100	n	11	"	n ·	n	tr .	
1,1-Dichloropropene	ND	0.100	н	n	11	n	17	n	
cis-1,3-Dichloropropene	ND	0.100	н	n	"	n	11	Ħ	
trans-1,3-Dichloropropene	ND	0.100	IT	11	n	п	11	n	

th Creek Analytical - Bothell

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Spokane

Portland

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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-10 (B0K0613-09) Soil	Sampled: 11/22/00 10:0	2 Receiv	ed: 11/22/00	16:20					
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	n	**	ir .	"	n	11	
2-Hexanone	ND	1.00	**	**	17	**	11	n	
Isopropylbenzene	ND	0.100	n	**	n	n	n	н	
p-Isopropyltoluene	ND	0.100	**	n	**	•	**	н	
Methylene chloride	ND	1.00	"	11	10	it .	**	#	
4-Methyl-2-pentanone	ND	1.00	"	n	H	n	,,	**	
Naphthalene	ND	0.100	"	n	N	n	11	11	
n-Propylbenzene	ND	0.100	H	"	н	н	n	n	
Styrene	ND	0.100	n	"	l7	ú	41	Ħ	
1,1,1,2-Tetrachloroethane	ND	0.100	n	n	h	n	**	ч	
1,1,2,2-Tetrachloroethane	ND	0.100	ıı	n	n	h	₩	*	
Tetrachloroethene	ND	0.100	n	17	tr	n	Ħ	Ħ	· .
Toluene	ND	0.100	"	11	u	н	jn	Ħ	í
1,2,3-Trichlorobenzene	ND	0.100	II.	**	"	n	**	Ħ	`~- '
1,2,4-Trichlorobenzene	ND	0.100	n	17	n	Ħ	**	н	
1,1,1-Trichloroethane	ND	0.100	u	"	11	Ħ	**	**	
1,1,2-Trichloroethane	ND	0.100	n	n	H	n	11	**	
Trichloroethene	0.271	0.100	11	17	"	n	н	11	
Trichlorofluoromethane	ND	0.100	11	11	n	"	н	lτ	
1,2,3-Trichloropropane	ND	0.100	*1	li .	n	n	н	Ħ	
1,2,4-Trimethylbenzene	ND	0.100	**	u	п	U	• n	n	
1,3,5-Trimethylbenzene	ND	0.100	n	Ħ	H	п	**	n	
Vinyl chloride	ND	0.100	II	Ħ	n	**	н	*1	
m,p-Xylene	` ND	0.200	n	н	**	41	**	**	
o-Xylene	ND	0.100	н	H	Ħ	n	н	**	
Surrogate: 1,2-DCA-d4	117 %	0-130			"	"	,,	"	
Surrogate: Toluene-d8	85.8 %	0-130			**	"	"	"	
Surrogate: 4-BFB	82.6 %	0-130			"	"	"	"	

North Creek Analytical - Bothell

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Portland

541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-15 (B0K0613-10) Soil	Sampled: 11/22/00 10:10	Pacain	ad: 11/22/00	16.20				<u> </u>	
	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Acetone	ND ND	0.100	mg/kg dry	1	UN26037	11/21/00	12/01/00	LIA 6200D	
Benzene	ND	0.100	ıı	'n	u	*	n	н	
Bromobenzene		0.100	n	71	tı	**		17	
Bromochloromethane	ND	0.100	11	н	n	н	u	11	
Bromodichloromethane	ND			ji	11	11	**	19	
Bromoform	ND	0.100	,, It :		n	ir	**	,,	
Bromomethane	ND	0.100	. "			.,		n	
2-Butanone	ND	1.00	,,	,,	"	,,		n	
n-Butylbenzene	ND	0.100	"	,,	,	"	"		
sec-Butylbenzene	ND	0.100			" "	"	" "	n	
tert-Butylbenzene	ND	0.100	"	"			n		
Carbon disulfide	ND	0.100	и	17	n	ta .			
on tetrachloride	ND	0.100	n	"	"	17	n		
robenzene	ND	0.100	n	17	n	n	U	"	
Cnioroethane	ND	0.100	n	"	'n	11	11	lt	
Chloroform	ND	0.100	**	n	h	n	H	"	
Chloromethane	ND	0.500	n	n	n	n	н	"	
2-Chlorotoluene	ND	0.100	11	n	Ħ	n		n	
4-Chlorotoluene	ND	0.100	71	11	Ħ	11	n	II	
Dibromochloromethane	ND	0.100	#	11	tr	H	11	71	
1,2-Dibromo-3-chloropropane	ND	0.500	n	11	н	u u	н	**	
1,2-Dibromoethane	ND	0.100	n	b	11	4	0	н	
Dibromomethane	ND	0.100	11	11	h	n	n		
1,2-Dichlorobenzene	ND	0.100		и.	tr .	tr .	n	**	
1.3-Dichlorobenzene	ND	0.100	h	17	**	n		11	
1,4-Dichlorobenzene	ND	0.100	ħ	n	"	11	11	n	
Dichlorodifluoromethane	ND	0.100	11	tt	n	**	**	h	
1.1-Dichloroethane	ND	0.100	H	11	n	n	n	**	
1,2-Dichloroethane	ND	0.100	n	n	H	n	17	n	
1,1-Dichloroethene	ND	0.100	,	,	n	"	17	и	
cis-1,2-Dichloroethene	ND	0.100	II.	11	n	11	v	n	
trans-1,2-Dichloroethene	ND	0.100	н	n	,,	н	11	n	
1,2-Dichloropropane	, ND	0.100	"	**	n	н	11	n	
1,3-Dichloropropane	ND	0.100	n	н	11	n	n	**	
2,2-Dichloropropane	ND	0.100	n	n	11	11	11	11	
	ND ND	0.100	**	н	n	**	n	в	
1,1-Dichloropropene	ND ND	0.100	11		n		н	II.	
cis-1,3-Dichloropropene			ii	11	ti	n	n	n	
trans-1,3-Dichloropropene	ND	0.100			**				

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-15 (B0K0613-10) Soil	Sampled: 11/22/00 10:10	Receiv	ed: 11/22/00	16:20					_
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	n	n	H		n	n	
2-Hexanone	ND	1.00	n	n	n	**	"	71	
Isopropylbenzene	ND	0.100	**	11	n	**	**	19	
p-Isopropyltoluene	ND	0.100	n	**	**	H	**	n	
Methylene chloride	ND	1.00	n	11	**	,	n	H	
4-Methyl-2-pentanone	ND	1.00	ıı	. "	ıı	11	**	11	
Naphthalene	ND	0.100	u	n	n	11	n	71	
n-Propylbenzene	ND	0.100	**	ır	H	**	n	11	
Styrene	ND	0.100	Ħ	v		Ħ	n	н	

51,710.10									
1,1,1,2-Tetrachloroethane	ND	0.100	11	n	"	н	11	II II	
1,1,2,2-Tetrachloroethane	ND	0.100	17	**	n	11	**	n	
Tetrachloroethene	ND	0.100	n	Ħ	n		n	**	, V
Toluene	ND	0.100	11	iT	ı	n	H	n	()
1,2,3-Trichlorobenzene	ND	0.100	rr .	n	n	11	n	**	* % = = =
1,2,4-Trichlorobenzene	ND	0.100	n	"	**	**	п	· n	
1,1,1-Trichloroethane	ND	0.100	n	n	11	n	n	n	
1,1,2-Trichloroethane	ND	0.100	ti	**	**	17	11	n	
Trichloroethene	0.381	0.100	"	**	11	17	11	Ħ	
Trichlorofluoromethane	ND	0.100	**	17	17	U	11	Ħ	
1,2,3-Trichloropropane	ND	0.100	11	n	n	**	n	Ħ	
1,2,4-Trimethylbenzene	ND	0.100	n	U	11	11	n	' H	
1,3,5-Trimethylbenzene	ND	0.100	н	n	**	97	11	н	
Vinyl chloride	ND	0.100	U	**	*1	la la	**	u	
m,p-Xylene	ND	0.200	11	*1	II	н	11	n	
o-Xylene	ND	0.100	ħ			η	"		
Surrogate: 1,2-DCA-d4	121 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	90.0 %	70-130			"	"	"	"	
-									

70-130

84.6 %

North Creek Analytical - Bothell

Surrogate: 4-BFB

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, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

 _	Rej	oorting							21-1-1
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-20 (B0K0613-11) Soil	Sampled: 11/22/00 10:15	Receive	ed: 11/22/00	16:20					
Acetone	ND	1.00	mg/kg dry	3	0K28037	11/27/00	12/01/00	EPA 8260B	
Benzene	ND	0.100	P	Ħ	71	n	н	n	
Bromobenzene	ND	0.100	"	17	н	11	19	n	
Bromochloromethane	ND	0.100	H	"	17	n	n	D.	
Bromodichloromethane	ND	0.100	**	n	n	tt	**	*1	
Bromoform	ND	0.100	Ħ	"	n	H	Ħ	n	
Bromomethane	ND	0.100	r	17	"	H	11	11	
2-Butanone	ND	1.00	11	**	n	n	***	n	
n-Butylbenzene	ND	0.100	17	**	Ħ	п	H	**	
sec-Butylbenzene	ND	0.100	11	н	**	17	"	#1	
tert-Butylbenzene	ND	0.100		"	11	11	**	II.	
Carbon disulfide	ND	0.100	11	n	11	11	н	11	
Carbon tetrachloride	ND	0.100	Ħ	**	n	n	11	n .	
robenzene	ND	0.100	n	n		n	п	*1	
roethane	ND	0.100	Ħ	n	п	n	17	H	
Chloroform	ND	0.100	"	**	**	11	**	II .	
Chloromethane	ND	0.500	**	17	11		•	**	
2-Chlorotoluene	ND	0.100	,	**	11	tt	**	n	
4-Chlorotoluene	ND	0.100	11	"	tr	n	Ħ	Ħ	
Dibromochloromethane	ND	0.100	IF	**	n	**	o	n	
1,2-Dibromo-3-chloropropane		0.500	11	Ħ	11	"	n	**	
1,2-Dibromoethane	ND .	0.100	11	**	•	"	ŧŧ	11	
Dibromomethane	ND	0.100	11	19	n	n	н	**	
1,2-Dichlorobenzene	ND	0.100	11	H	n	н	11	n	
•	ND	0.100	*1	11	n	11	u	U	
1,3-Dichlorobenzene	ND	0.100	Ħ	n	79	n	n	"	
1,4-Dichlorobenzene Dichlorodifluoromethane	· ND	0.100	n	71		**	***		
1,1-Dichloroethane	ND	0.100	n	11	11	**		•1	
•	ND -	0.100		"	**	h	•	n	
1,2-Dichloroethane	ND	0.100	п	**	,,	n	11	n	
1,1-Dichloroethene	ND	0.100	н	u u	n	n	н	**	
cis-1,2-Dichloroethene	ND	0.100	n	11	"	17	n	u	
trans-1,2-Dichloroethene	ND ND	0.100	н	Ħ	n	u	п	n	
1,2-Dichloropropane		0.100	**	ti	"	н	н	ı	
1,3-Dichloropropane	ND		n	Ħ	,,	"	11	11	
2,2-Dichloropropane	ND	0.100	" II	,,	n	n	,,	н	
1,1-Dichloropropene	ND	0.100	 N	,,		17	11	11 -	
cis-1,3-Dichloropropene	ND	0.100	" "	 H	 n	11	11	н	
trans-1,3-Dichloropropene	ND	0.1Ò0	n	"	•				

h Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Amai Gill, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network**



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Portland

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B

North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-20 (B0K0613-11) Soil	Sampled: 11/22/00 10:15	Receiv	ed: 11/22/00	16:20	<u> </u>				
Ethylbenzene	ND	0.100	mg/kg dry]	0K28037	11/27/00	12/01/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	11	*1	n	**	n	n	
2-Hexanone	ND	1.00	n	11	H	n	н	n	
lsopropylbenzene	ND	0.100	n	**	n	n	н	n n	
p-Isopropyltoluene	ND	0.100	н	Ħ	n	n	n	n	
Methylene chloride	ND	1.00		н	ıı	11	ŧi	**	•
4-Methyl-2-pentanone	ND	1.00	n	H	n	n	ŧŧ	н	
Naphthalene	ND	0.100	,	n	11	11	11	n	
n-Propylbenzene	ND	0.100		н	**	11	*	tr	
Styrene	ND	0.100	n	**	11	h	н	w	
1,1,1,2-Tetrachloroethane	ND	0.100	H	**	H	n	•	n	•
1,1,2,2-Tetrachloroethane	ND	0.100	*		Ħ	n	17	77	
Tetrachloroethene	ND	0.100	r	n	n	n	•	77	
Toluene	ND	0.100	n	н	n	n	11		g k
1,2,3-Trichlorobenzene	ND	0.100	H	n	н	Ħ	**	h	,
1,2,4-Trichlorobenzene	ND	0.100	**	n	**	н	Ħ	h	
1,1,1-Trichloroethane	ND	0.100	h	11	H	н	**	n	
1,1,2-Trichloroethane	ND	0.100	r	11	**	n	**	n	
Trichloroethene	0.413	0.100	n	**	ti	n .	n	н	
Trichlorofluoromethane	ND	0.100	H	н	**	II .	n	v	
1,2,3-Trichloropropane	ND	0.100	· ·	11	**	n		Ħ	
1,2,4-Trimethylbenzene	ND	0.100	P	н	Ħ	n	Ħ	п	
1,3,5-Trimethylbenzene	ND	0.100	H	H	Ħ	н	17	п	
Vinyl chloride	ND .	0.100	*	11	11		H	n	
m,p-Xylene	ND	0.200	"	n	**	п	n	н	
o-Xylene	ND	0.100	17	н	n	н	n	н	
Surrogate: 1,2-DCA-d4	125 % 70	0-130			,,	"	"	"	-
Surrogate: Toluene-d8	91.4 % 7	0-130			"	"	**	•	
Surrogate: 4-BFB	85.0 % 70	0-130			"	"	u	"	

North Creek Analytical - Bothell

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541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Re Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-25 (B0K0613-12) Soil	Sampled: 11/22/00 10:20		ed: 11/22/00	16:20					
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Benzene	ND	0.100	II	n	н	11	P	11	
Bromobenzene	ND	0.100	11	17	"	n	"	n	
Bromochloromethane	ND	0.100	n	"	**	н	11	H	
Bromodichloromethane	ND	0.100	n	11	h		n	u	
Bromoform	ND	0.100	**	17	"	**	**	n	
Bromomethane	ND	0.100	n	n	11	11	n	n	
2-Butanone	ND	1.00	"	н	11		н	n	
n-Butylbenzene	ND	0.100	11	17	n	н	n	**	
sec-Butylbenzene	ND	0.100	**	11	"	"	п	n	
tert-Butylbenzene	ND	0.100	n	n	**	"	n	n	
Carbon disulfide	ND	0.100	H	h	н	11	n	**	
Carbon tetrachloride	ND	0.100	**	H	n	n	17	н	
obenzene	ND	0.100	n	n	**	11	н	н	
croethane	ND	0.100	n	10	n	"	17	H	
Chloroform	ND	0.100	ħ	**		tt	**	**	
Chloromethane	ND	0.500	n	11	11	Ħ	н	n	
2-Chlorotoluene	ND	0.100	ti	n	n	**	IT	. п	
4-Chlorotoluene	ND	0.100	n	**	n	#	**	. "	
Dibromochloromethane	ND	0.100	17	11	**	17	n	n	
1,2-Dibromo-3-chloropropane	ND	0.500	n	н	11	11	H.	11	
1,2-Dibromoethane	ND	0.100	n	n	**	ti	**	n	
Dibromomethane	ND	0.100	11	Ħ	n	17	n	II	
1,2-Dichlorobenzene	ND	0.100	**	"	h	11	11	u ,	
1,3-Dichlorobenzene	ND	0.100	11	"	n	11	11	ņ	
1,4-Dichlorobenzene	ND	0.100	11	n	n	n	n	ľ	
Dichlorodifluoromethane	ND	0.100	**	n	**	11	D	**	
1,1-Dichloroethane	ND	0.100	li	17	**	II	11	н	
1,2-Dichloroethane	ND	0.100	U	11	н	11	n	P	
1,1-Dichloroethene	ND	0.100	**		н	11	n	**	
cis-1,2-Dichloroethene	ND	0.100	n	ıı	11	P	11	11	
trans-1,2-Dichloroethene	ND	0.100	n	n	н	n	n	Ħ	
1,2-Dichloropropane	ND	0.100	n	н	17	u	lt.	0	
1,3-Dichloropropane	ND	0.100	n	n	"	н	11	"	
	ND	0.100		"	H		"	n	
2,2-Dichloropropane	ND ND	0.100	11	n	"	11	11	n	
1,1-Dichloropropene	ND ND	0.100		п	**	n	9	n	
cis-1,3-Dichloropropene	ND ND	0.100		11	n		H	н	
trans-1,3-Dichloropropene	ND	0.100							

h Creek Analytical - Bothell

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541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-25 (B0K0613-12) Soil	Sampled: 11/22/00 10:20	Receiv	ed: 11/22/00	16:20					
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	н	71	**	U	l7	**	
2-Hexanone	ND	1.00	11	"	**	11	IT	n	
Isopropylbenzene	ND	0.100	H	IT	n	н	Ħ	n	
p-lsopropyltoluene	ND	0.100	n	Ħ	n	Ħ	11	*1	
Methylene chloride	ND	1.00	n	**	11	D	и	n	
4-Methyl-2-pentanone	ND	1.00	н	19	Ħ	n	n	n	
Naphthalene	ND	0.100	11	n	**	11	н	н	•
n-Propylbenzene	ND	0.100	#	n	u	н	**	11	
Styrene	ND	0.100	**	н	n	n	te	Ħ	
1,1,1,2-Tetrachloroethane	ND	0.100	n	**	11	n	11	н	
1,1,2,2-Tetrachloroethane	ND	0.100	n	n	n	***	'n	H	
Tetrachloroethene	ND	0.100	n	11	**	U	"	u	,
Toluene	ND	0.100	ŧi	n	н	u	11	Ħ	1
1,2,3-Trichlorobenzene	ND	0.100	**	11	17	"	n	н	
1,2,4-Trichlorobenzene	ND	0.100	11	**	"	11	11	n	
1,1,1-Trichloroethane	ND	0.100	11	**	U	11	H	n	
1,1,2-Trichloroethane	ND	0.100	11	11	11	19	**	n	
Trichloroethene	0.545	0.100	n	17	**	11	*	"	
Trichlorofluoromethane	ND	0.100	n	17	n	v	n	11	
1,2,3-Trichloropropane	ND	0.100	"	11	19	11	н	ħ	
1,2,4-Trimethylbenzene	ND	0.100	n	u	u	n	77	n	
1,3,5-Trimethylbenzene	ND	0.100	11	***	*1	"	"	"	
Vinyl chloride	ND	0.100	11	"	**	n	"	н	
m,p-Xylene	ND	0.200	n	"	n	11	Ħ	**	
o-Xylene	ND	0.100	n	"	"	**	H	**	
Surrogate: 1,2-DCA-d4	118 % 7	0-130			"	,,	,,	"	
Surrogate: Toluene-d8	84.5 % 7	70-130			**	**	"	"	
Surrogate: 4-BFB	79.8 %	0-130			"	"	"	Ħ	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				16:20		· ·	·		
SB-33-2 (B0K0613-20) Soil	Sampled: 11/22/00 11:38	_				11/25/00	12/01/00	EPA 8260B	
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8200B	
Benzene	ND	0.100		,	n		n.		
Bromobenzene	ND	0.100	**	,,	"	.,	 H		
Bromochloromethane	ND	0.100			,,	,,	,,		
Bromodichloromethane	ND	0.100	**	"		,,	,,		
Bromoform	ND	0.100	н	H	n			"	
Bromomethane	ND	0.100	17	U	**	"	***	"	
2-Butanone	ND	1.00	11	n	н	ti)1		
n-Butylbenzene	ND	0.100	n	11	n	"	H	u	
sec-Butylbenzene	ND	0.100	p	U	n	11	11	n	
tert-Butylbenzene	ND	0.100	**	"	n	"	II	n	
Carbon disulfide	ND	0.100	n	17		b	n	n	
Carbon tetrachloride	ND	0.100	11	*1	n	n	**	"	
robenzene	ND	0.100	**	*11	"	n		"	
roethane	ND	0.100	11	n	11	u	11	*1	
Chloroform	ND	0.100	11	Ħ	17	11	н	11	
Chloromethane	ND	0.500	tt	**	n	17	IP.	n	
2-Chlorotoluene	ND	0.100	**	n	11	**	**	11	
4-Chlorotoluene	ND	0.100	n	11	"	н		n	
Dibromochloromethane	ND	0.100	n	17	11	17	**	n	
1,2-Dibromo-3-chloropropan	e ND	0.500	n	#	H	31	n	н	
1,2-Dibromoethane	ND	0.100	"	н	n	n	**	H	
Dibromomethane	ND	0.100	n	**	**	11	11	Ħ	
1.2-Dichlorobenzene	ND	0.100	n	н		н	II .	tr.	
1,3-Dichlorobenzene	ND	0.100	**	n	11		11	**	
1,4-Dichlorobenzene	ND	0.100	n	11		**	h	н	
Dichlorodifluoromethane	ND	0.100	н	n	10	*	ır	n	
1,1-Dichloroethane	ND	0.100	п	u	11	**	Ħ	**	
1,2-Dichloroethane	ND	0.100	11	n	n	'n	н	h	
1,1-Dichloroethene	ND	0.100	11	n	w	n	"	n	
•	0.417	0.100	n	17	*1	n	11	n	
cis-1,2-Dichloroethene	0.417 ND	0.100	n	н	n	11	n	n	
trans-1,2-Dichloroethene	ND ND	0.100	"	II	n	n	n	II .	
1,2-Dichloropropane		0.100	u	n	н	19	н	n	
1,3-Dichloropropane	ND		. 11	17		n	11	D	
2,2-Dichloropropane	ND	0.100		11	**	n	**	**	
1,1-Dichloropropene	ND	0.100	"	"	,	11	17	n	
cis-1,3-Dichloropropene	ND	0.100	n	 n	n		0	11	
trans-1,3-Dichloropropene	ND	0.100	,,	"	••	**			

h Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Bothell WA, 98011

12100 NE 195th Street Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Project: West Commodore Way Phase II

Analyte	Result	leporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-2 (B0K0613-20) Soil	Sampled: 11/22/00 11:38	Receive	d: 11/22/00	16:20					
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	11	"	**	n	"	Ħ	
2-Hexanone	ND	1.00	11	U	**	n	"	n	
Isopropylbenzene	ND	0.100	11	**	**	"	"	n	
p-Isopropyltoluene	ND	0.100	n	**	11	***	, в	н	
Methylene chloride	ND	1.00	и	11	**	11	n	n	
4-Methyl-2-pentanone	ND	1.00	н	**	11	11	Ħ	17	
Naphthalene	ND .	0.100	n	n	n	Ħ	Ħ	91	
n-Propylbenzene	ND	0.100	n	**	n	Ħ	**	17	
Styrene	ND	0.100	H	11	n	Ħ	h	p.	
1,1,1,2-Tetrachloroethane	ND	0.100	n	n	н	ı	H	**	
1,1,2,2-Tetrachloroethane	ND	0.100		91	н	n	n	n	
Tetrachloroethene	ND	0.100	ŧ	11	**	n	в	n	
Toluene	ND	0.100	n	**	n	n	n	n	i
1,2,3-Trichlorobenzene	ND	0.100	Ħ	**	**	11	n	н	` ~
1,2,4-Trichlorobenzene	ND	0.100	PT .	**	н	"		n	
1,1,1-Trichloroethane	ND	0.100	17	**	**	**		n	
1,1,2-Trichloroethane	ND	0.100	**	#	H	H		**	
Trichloroethene	ND	0.100	H	#	Ħ	71		"	
Trichlorofluoromethane	ND	0.100	Ħ	71	n	71	11	*1	
1,2,3-Trichloropropane	ND	0.100	Ħ	*	n	H	11	**	
1,2,4-Trimethylbenzene	ND	0.100	IT	н	ır	n	**	**	
1,3,5-Trimethylbenzene	ND	0.100	**	n	n	н	n	,	
Vinyl chloride	ND	0.100	11	10	'n	*	п	**	
m,p-Xylene	ND	0.200	n	11	**	"	II .	u u	
o-Xylene	ND	0.100	tt	71	"	n	17	11	
Surrogate: 1,2-DCA-d4		70-130			"	"	"	"	<u>.</u>
Surrogate: Toluene-d8	0211 / 0	70-130			"	n	"	н	
Surrogate: 4-BFB	78.1 %	70-130			"	"	"	n	

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the c

Project Manager



20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541,383,9310 fax 541,382,7588

Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-5 (B0K0613-21) Soil	Sampled: 11/22/00 11:44	Receive	d: 11/22/00	16:20					
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Benzene	ND	0.100	"	n	ir	17	•	н	
Bromobenzene	ND	0.100	n	n	n	"	n	n	
Bromochloromethane	ND	0.100	11	11	н	**	**		
Bromodichloromethane	ND	0.100	Ħ	и			lt .	н	
Bromoform	ND	0.100	n	71	Ħ	n	**	**	
Bromomethane	ND	0.100	**	11	u	"	n	n	
2-Butanone	ND	1.00	n	"	n	**	***	**	
n-Butylbenzene	ND	0.100		11	17	n	n	n	
sec-Butylbenzene	ND	0.100	n	,,	u	**	**	n	
tert-Butylbenzene	ND	0.100	n	**	,	11	**	**	
Carbon disulfide	ND	0.100	*1	n	n	ti	It	н	
○ Son tetrachloride	ND	0.100	n		"	91	**	n	
robenzene	ND	0.100	**	n	n	"	n	ii	
	ND	0.100	H	it	**	n	**	11	
Chloroform	ND	0.100	11	11	11	n		H	
Chloroform	ND	0.500	h	11	н	n	v	11	
Chloromethane	ND	0.100	n	**	n	17	n	и	
2-Chlorotoluene	ND	0.100	n		10	11	ų	u	
4-Chlorotoluene	ND	0.100	11	н	h	n	n	n	
Dibromochloromethane		0.500	19	11	11	н	**	n	
1,2-Dibromo-3-chloropropan	e ND ND	0.100	u	н	n	n	н	h	
1,2-Dibromoethane	ND	0.100	17	n	**		**	11	
Dibromomethane	ND ND	0.100	*1	11	b	n	n	tr	
1,2-Dichlorobenzene	ND	0.100	"	ir	11	n	**	11	
1,3-Dichlorobenzene	ND	0.100	11	11	n	n	' h	н	
1,4-Dichlorobenzene	ND ND	0.100	n	n		Ħ	н	"	
Dichlorodifluoromethane	ND ND	0.100	**	11	n	tr .	н	u	
1,1-Dichloroethane	ND ND	0.100	**	**	"	11	11	n	
1,2-Dichloroethane	ND ND	0.100	H	n	н	Ħ	n	n	
1,1-Dichloroethene	ND ND	0.100	**	"	II	**	н	ŧŧ	
cis-1,2-Dichloroethene	ND ND	0.100	n		11	n	**	n	
trans-1,2-Dichloroethene		0.100	,,,	11	ı,	n	ıı	u	
1,2-Dichloropropane	ND		11	н	**	"	11	Ħ	
1,3-Dichloropropane	ND	0.100		11	17	"	n	u	
2,2-Dichloropropane	ND	0.100		n	**	*	11	n	
1,1-Dichloropropene	ND	0.100		"	н		11	D	
cis-1,3-Dichloropropene	ND	0.100		"	"	" #		n	
trans-1,3-Dichloropropene	ND	0.100	Ħ	н	"	п			

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Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
									
SB-33-5 (B0K0613-21) Soil	Sampled: 11/22/00 11:44	Receive	d: 11/22/00 1	16:20					
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	н	11	н	n	11	n	
2-Hexanone	ND	1.00	н	u	11	If	n	u	
Isopropylbenzene	ND	0.100	17	n	n	n	ti	n	
p-Isopropyltoluene	ND .	0.100	n	"		n	tr	"	
Methylene chloride	ND	1.00	77	"	n	n	n	n	
4-Methyl-2-pentanone	ND	1.00	11	n	n	h	n	11	
Naphthalene	ND	0.100	**	n	11	#	11	b	
n-Propylbenzene	ND	0.100	tr	n	n	H	н	н	
Styrene	ND	0.100	II.	11	n	н	n	н	
1,1,1,2-Tetrachloroethane	ND	0.100	n	**	**		r	11	
1,1,2,2-Tetrachloroethane	ND	0.100	n	11	n	n	11	**	
Tetrachloroethene	ND	0.100	D	n	11	"	**	tı	,
Toluene	ND	0.100	n	n	н	n	**	n	1
1,2,3-Trichlorobenzene	ND	0.100	n	n	n	n	n	u	14
1,2,4-Trichlorobenzene	ND	0.100	**	p	10	n	n	"	
1,1,1-Trichloroethane	ND	0.100	71	11	D	n	n	, "	
1,1,2-Trichloroethane	ND	0.100	Ħ	n	IT	n	11	n	
Trichloroethene	ND	0.100	U	**	n	**	н	н	
Trichlorofluoromethane	ND	0.100	n	11	11	**	n	h	
1,2,3-Trichloropropane	ND	0.100	n	•	**	11	**	*	
1,2,4-Trimethylbenzene	ND	0.100	D	n	"	u	**	11	
1,3,5-Trimethylbenzene	ND	0.100	tr	n	n		•	**	
Vinyl chloride	ND	0.100	11	n	٠.	"	71	17	
m,p-Xylene	ND	0.200	μ	n	11	n	n	· "	
o-Xylene	ND	0.100	**	n	n	n	n	n	
Surrogate: 1,2-DCA-d4	116%	0-130			"	"	"	"	_
Surrogate: Toluene-d8	86.7 %	0-130			"	н	"	"	
Surrogate: 4-BFB	79.2 %	0-130			"	*	n	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase Il

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-10 (B0K0613-22) Soil	Sampled: 11/22/00 11:50	Receive	ed: 11/22/00	16:20					
	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Acetone Benzene	ND	0.100	"	**	n	н	н	'n	
Bromobenzene	ND	0.100	tt	н	11	n	**	*1	
Bromochloromethane	ND	0.100	ı,	"	n	**	11	**	
Bromodichloromethane	ND	0.100	n	*1	11	**	n	n	
	ND	0.100	11	н	n	u	11	11	
Bromoform	ND	0.100	11	lı .	ti		и	n	
Bromomethane	ND	1.00	11	71	**	"	n	11	
2-Butanone	ND ND	0.100	Ħ	11	14	**	11	н	
n-Butylbenzene	ND ND	0.100	n	U	D	н	n	n	
sec-Butylbenzene		0.100	u	71		"	n	u	
tert-Butylbenzene	ND		н	.,	11	11	**	17	
Carbon disulfide	ND	0.100		u	n	н	,,	n	
Corbon tetrachloride	ND	0.100		,,	71	11	#	11	
robenzene	ND	0.100	n		,,	**	#	11	
roethane	, ND	0.100		11	11	b	n	n	
Chloroform	ND	0.100	,,			11	11	11	•
Chloromethane	ND	0.500		., D	 17	,	n	,,	
2-Chlorotoluene	ND	0.100		"			,,	**	
4-Chlorotoluene	ND	0.100	n	,, 10	и и	,,	 N	u	
Dibromochloromethane	ND	0.100	11	"	" tı	n		н	
1,2-Dibromo-3-chloropropane	ND	0.500	H		н		"	 h	
1,2-Dibromoethane	ND	0.100	n	n			"		
Dibromomethane	ND	0.100	n	U	ti		"	 H	
1,2-Dichlorobenzene	ND	0.100	. "	11	ŧı	۳.			
1,3-Dichlorobenzene	ND	0.100	н	17	11	n	п		
1,4-Dichlorobenzene	ND	0.100	**	11	Ħ	n	H	H	
Dichlorodifluoromethane	ND	0.100	**	11	Ħ	"	n	17	
1,1-Dichloroethane	ND	0.100	•	H	Ħ	n	"	"	
1,2-Dichloroethane	ND	0.100	**	D	Ħ	n	"	**	
1,1-Dichloroethene	ND	0.100	**	Ħ	**	**	"	P	
cis-1,2-Dichloroethene	ND	0.100	h	n		"	` # ,	n	
trans-1,2-Dichloroethene	ND	0.100	Ħ	tr	11	71	11	n	
1,2-Dichloropropane	ND	0.100	n	11	n	Ħ	H	11	
1,3-Dichloropropane	ND	0.100	If	p	п	**	U	H	
2.2-Dichloropropane	ND	0.100	11	11	n	Ħ	*1	ŧı	
1,1-Dichloropropene	ND	0.100	n	H	n	D	17	u	
cis-1,3-Dichloropropene	ND	0.100	17	н	tt	n	11	11	
	ND	0.100	н	11	*1	н	*1	п	
trans-1,3-Dichloropropene	עאו	0.100							

h Creek Analytical - Bothell

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Project Manager



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Spokane

Portland

Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B

North Creek Analytical - Bothell

	R	eporting				<u> </u>			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-10 (B0K0613-22) Soil	Sampled: 11/22/00 11:50	Receiv	ed: 11/22/00	16:20	•				
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	n	Ħ	'n	71	"	Ħ	
2-Hexanone	ND	1.00	**	**	tt	u	**	**	
Isopropylbenzene	ND	0.100	n	n	0	ıı	•	**	
p-Isopropyltoluene	ND	0.100	ti	**	n		ч	Ħ	
Methylene chloride	ND	1.00	n	**	D	н	"	11	
4-Methyl-2-pentanone	ND	1.00	n	*1	n		u	'n	
Naphthalene	ND	0.100	н	н	н	**		11	
n-Propylbenzene	ND	0.100	n	D	n	n	l7	**	
Styrene	ND	0.100	**	h	Ħ	н	н	Ħ	
1,1,1,2-Tetrachloroethane	ND	0.100	n	Ħ	h		н	**	
1,1,2,2-Tetrachloroethane	ND	0.100	u	#	n	*	**	и	
Tetrachloroethene	ND	0.100	n	17	11	*	n	n	1000
Toluene	ND	0.100	n	**	*	ti	**	н	(
1,2,3-Trichlorobenzene	ND	0.100		11	**	**	. "	н	×
1,2,4-Trichlorobenzene	ND	0.100	н	**	**	11	**	*1	
1,1,1-Trichloroethane	ND	0.100	**	••	**	n	71	n	
1,1,2-Trichloroethane	ND .	0.100	v	n	n	II .	ti .	n	
Trichloroethene	0.247	0.100	n	n	Ð	h	••	n	
Trichlorofluoromethane	ND	0.100	H	'n	"	19	19	n	
1,2,3-Trichloropropane	ND	0.100	li .	Ħ	17	n	D	17	
1,2,4-Trimethylbenzene	ND	0.100	11	11	n·	11	lt.	₽ .	
1,3,5-Trimethylbenzene	ND	0.100	**	**	b		n	n	
Vinyl chloride	ND	0.100	79	H	"		11		
m,p-Xylene	ND	0.200	**	n	н	H	ır	н	
o-Xylene	ND	0.100	n	n	**	,	n	11	
Surrogate: 1,2-DCA-d4	113 % 70	0-130			"	**	"	"	· <u> </u>
Surrogate: Toluene-d8	85.7 % 70	0-130			"	"	"	"	
Surrogate: 4-BFB	77.8 % 70	7-130			n	"	,,	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B

North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-33-15 (B0K0613-23) Soil	Sampled: 11/22/00 11:55	Receiv	ed: 11/22/00	16:20					
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/02/00	EPA 8260B	
Benzene	ND	0.100	יי שאיקאווי	н	H	n	n		
Bromobenzene	ND	0.100	tt	н	r	"	r	τι	
Bromochloromethane	ND	0.100	n	tr	н	n	u	n	
Bromodichloromethane	ND	0.100	н	**	n	**	**	es es	
Bromoform	ND	0.100	u	**	**	71	и	n	
Bromomethane	ND	0.100	11	n	**	**	n	11	
2-Butanone	ND	1.00	**	b	н	n	n	H	
n-Butylbenzene	ND	0.100	n	11	n	**	11	и	
sec-Butylbenzene	ND	0.100	n	11	D.	n	н		
ert-Butylbenzene	ND ND	0.100	n	n	11	n	n	11	
Carbon disulfide	ND	0.100	11	и	n	n	n	**	
Carbon disulfide	ND	0.100	11	17	11	•	fi	n	
	ND	0.100	n	11	17	**	n	17	
robenzene Cmcroethane	ND ND	0.100	h	n	ti		,,	"	
Chloroform	ND ND	0.100	u	н	**	"	n	n	
	ND	0.500	*	u	n	11	**	n	
Chlorotteluene	ND	0.100	н	11		н	n	D	
2-Chlorotoluene	ND	0.100	n	n	n	n	**	н	
4-Chlorotoluene	ND ND	0.100	11	н	**	11	11	н	
Dibromochloromethane		0.500	**	tr		11	n	tr .	
1,2-Dibromo-3-chloropropane	ND ND	0.100	11	11	,,	n	10	v	
1,2-Dibromoethane	ND ND	0.100	,,	h	**	lr .	U	n	
Dibromomethane		0.100	"	17	н		**	n	
1,2-Dichlorobenzene	ND		tı	11		rı	n	v	
1,3-Dichlorobenzene	ND	0.100	n	11	9	h	n	n	
1,4-Dichlorobenzene	ND ND	0.100	,,		**	"		n	
Dichlorodifluoromethane	ND ND	0.100	0	н	,,	11	71	n	
1,1-Dichloroethane	ND ND	0.100		It	n	11	n	Ħ	
1,2-Dichloroethane			11	17		n	n	11	
1,1-Dichloroethene	ND	0.100	n	11	11		n	II	
cis-1,2-Dichloroethene	ND	0.100	"		**	U	. 11	п	
trans-1,2-Dichloroethene	ND	0.100	"		и	,,	11	Ð	
1,2-Dichloropropane	ND	0.100		"	" #		 n	11	
1,3-Dichloropropane	ND	0.100	"	"	"	" "	"	 n	
2,2-Dichloropropane	ND	0.100	11			"	"	"	
1,1-Dichloropropene	ND	0.100	"	. "	71				
cis-1,3-Dichloropropene	ND	0.100	n	11	n	11	H	11	
trans-1,3-Dichloropropene	ND	0.100	11	n	17	h	H	n	

h Creek Analytical - Bothell

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Project Manager



541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

Project Number: n/a 12100 NE 195th Street

Project Manager: Bryan Graham Bothell WA, 98011

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Project: West Commodore Way Phase II

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-15 (B0K0613-23) Soil	Sampled: 11/22/00 11:55	Receiv	ed: 11/22/00	16:20					
Ethylbenzene	ND	0.100	mg/kg dry	ì	0K28037	11/27/00	12/02/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	11	**	n	, III	tt	n	
2-Hexanone	ND	1.00	17	n	1	*1	**	tı	
Isopropylbenzene	ND	0.100	*1	n	**	"	H	n	
p-Isopropyltoluene	ND	0.100	11	Ħ	**	н	n	**	
Methylene chloride	ND	1.00	n	11	lT .	*1	n	11	
4-Methyl-2-pentanone	ND	1.00	n	17	n	*1	11	н	
Naphthalene	ND	0.100	n	17	u	"	11	n	
n-Propylbenzene	ND '	0.100	**	n	Ħ	u	11	II .	
Styrene	ND	0.100	71	ti	"	Ħ	n	n	
1,1,1,2-Tetrachloroethane	ND	0.100	**	**	n	н	**	n	
1,1,2,2-Tetrachloroethane	ND	0.100	n	H	n	**	"	I†	
Tetrachloroethene	ND	0.100	**	11	n	n		11	1
Toluene	ND	0.100	U	n	*1	n	17	н	!
1,2,3-Trichlorobenzene	ND	0.100	**	11)+	н	**	Ħ	V = e
1,2,4-Trichlorobenzene	ND	0.100	**	**	n	11	**	n	
1,1,1-Trichloroethane	ND	0.100	Ħ	"	n	ıı	19	l7	
1,1,2-Trichloroethane	ND	0.100	p		**	n	Ħ	H	
Trichloroethene	0.360	0.100	•	**	P	н	11	**	
Trichlorofluoromethane	ND	0.100	11	"	n	11	10	**	
1,2,3-Trichloropropane	ND	0.100	11	n	n	11	n	p	
1,2,4-Trimethylbenzene	ND	0.100	11	n		n	н	v	
1,3,5-Trimethylbenzene	ND	0.100	11		**	**	"	11	
Vinyl chloride	. ND	0.100	n	11	IP	"	n	н	
m,p-Xylene	ND	0.200	**	**	17	11	ir	n	
o-Xylene	ND	0.100	n	н	n	H	n	n	
Surrogate: 1,2-DCA-d4	115 %	0-130			"	"	"	, "	
Surrogate: Toluene-d8	84.6 %	0-130			"	"	"	"	
Surrogate: 4-BFB		0-130			"	"	n	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note:
SB-33-20 (B0K0613-24) Soil	Sampled: 11/22/00 12:00	Receiv	 ed: 11/22/00	16:20					
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/02/00	EPA 8260B	
Benzene	ND	0.100	n	n	h	11	li .	11	
Bromobenzene	ND	0.100	H	"	n	n	и	11	
Bromochloromethane	ND	0.100	•	**	17	n		n	
Bromodichloromethane	ND	0.100	11	*	**	D	11	U	
Bromoform	ND	0.100	n	n	"	n	n	**	
Bromomethane	ND	0.100	n	"	н	n		11	
2-Butanone	ND	1.00	n	н	n	n	by .	н	
n-Butylbenzene	ND	0.100	**	11	u	n	**	n .	
sec-Butylbenzene	ND	0.100	n	71	**	v	11	ti	
tert-Butylbenzene	ND	0.100	ıı	н	75	n	n	**	
Carbon disulfide	ND	0.100	n	11	"		n	н	
on tetrachloride	ND	0.100	**	n	u	**	н	n	
robenzene	ND	0.100	**	11	"	"	n	n	
Cinoroethane	ND	0.100	n	п	11		11	n	
Chloroform	ND	0.100	"	n	H	u	n	п	
Chloromethane	ND	0.500	11	"	n	H	n	n	
2-Chlorotoluene	ND	0.100	н	u	n	и,	n	19	
4-Chlorotoluene	ND	0.100	н	11	n	n	"	,	
Dibromochloromethane	ND	0.100	D .	11	n	11	n	н	
1,2-Dibromo-3-chloropropane	ND	0.500	n	11	11	н	11	н	
1,2-Dibromoethane	ND	0.100	н	+1	10	n	11	11	
Dibromomethane	ND	0.100	n	n	н	11	,,	n	
1,2-Dichlorobenzene	ND	0.100	u	n	11	۳.	n _.	и	
1,3-Dichlorobenzene	ND	0.100	n	U	n	n	"	n	
1,4-Dichlorobenzene	ND	0.100	H	ŧı	11	W	**	**	
Dichlorodifluoromethane	ND	0.100	lr .	н	11	le .	71	19	
1,1-Dichloroethane	ND	0.100	"	"	h	"	"	n	
1,2-Dichloroethane	ND	0.100	H	H	U	n	**	11	
1,1-Dichloroethene	ND	0.100	n	11	tr.	n	•	11	
cis-1,2-Dichloroethene	ND	0.100	п	11	**	11	11	n	
trans-1,2-Dichloroethene	ND	0.100	u	n	Ħ	h	n	n	
1,2-Dichloropropane	ND	0.100	n	Ħ	li	11	Ħ	n	
1,3-Dichloropropane	ND	0.100	11	Ħ	n	n	II .	17	
2,2-Dichloropropane	ND	0.100	n	n	11	11	**	11	
1,1-Dichloropropene	ND	0.100	"	n	n	"	н	н	
cis-1,3-Dichloropropene	ND	0.100	n	н	**	11	n	, H	
trans-1,3-Dichloropropene	ND	0.100	H	н	11	**	ir	**	

h Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

		porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-20 (B0K0613-24) Soil	Sampled: 11/22/00 12:00	Receiv	ed: 11/22/00	16:20					
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/02/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	n	n	11	**	n	ŧı	
2-Hexanone	ND	1.00	n	· u	n	11	в	и	
lsopropylbenzene	ND	0.100	n	n	n	19	h	"	
p-Isopropyltoluene	ND	0.100	u	n	n	It	**	n	
Methylene chloride	ND	1.00	11	11	11	"	**	n	
4-Methyl-2-pentanone	ND	1.00	"	**	ti	11	**	. "	
Naphthalene	ND	0.100	**	n	11	**	"	D	
n-Propylbenzene	ND	0.100	'n	17	n	"	n	u	
Styrene	ND .	0.100	H	17	n	H	n	Ħ	
1,1,1,2-Tetrachloroethane	ND	0.100	n	17	н	"	n	н	
1,1,2,2-Tetrachloroethane	ND	0.100	11	ti	17	11	**	11	
Tetrachloroethene	ND	0.100	n	n	n	17	,	in .	/** ·
Toluene	ND	0.100	II	n	D	n	"	•	(
1,2,3-Trichlorobenzene	ND	0.100	n	**	n	H	**	n	y
1,2,4-Trichlorobenzene	ND	0.100	ŧı	**	"	n	"	O.	
1,1,1-Trichloroethane	ND	0.100	11	n	"	71	u	**	
1,1,2-Trichloroethane	ND	0.100	11	n	*1	"	**	**	
Trichloroethene	0.266	0.100	н	n	*	н	**	11	
Trichlorofluoromethane	ND	0.100	•	"	"	n	**	**	
1,2,3-Trichloropropane	ND	0.100	11	**	H	11	11	n	
1,2,4-Trimethylbenzene	ND	0.100	"	n	n	n	n	"	
1,3,5-Trimethylbenzene	ND	0.100	n	**	n	н	n	**	
Vinyl chloride	ND	0.100	U	**	**	н	n	"	
m,p-Xylene	ND	0.200	n	n	**	н	**	n	
o-Xylene	ND	0.100	n	17	11	h	11	19	
Surrogate: 1,2-DCA-d4		0-130			"	"	"	,,	
Surrogate: Toluene-d8	90.2 % 7	0-130			"	n	"	"	
Surrogate: 4-BFB	83.4 % 7	0-130			"	tt .	"	n	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Anglyta	Result	oorting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Vezati	Lillit		Dilution	Patcii		7 111d1 y 2CG		710103
SB-33-25 (B0K0613-25) Soil			ed: 11/22/00	16:20					
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/02/00	EPA 8260B	
Benzene	ND	0.100	Ħ	ti	**	n	11		
Bromobenzene	ND	0.100	н	n	"	11	и	"	
Bromochloromethane	ND	0.100	n	"	н	11	n	n	
Bromodichloromethane	ND	0.100	н	· n	"	H	lr .	н	
Bromoform	ND	0.100	"	н	'n	P	**	Ħ	
Bromomethane	ND	0.100	**	**	"	"	"	n	
2-Butanone	ND	1.00	n	п	**	н	'n	17	
n-Butylbenzene	ND	0.100	p	**	•	"	Ħ	H	
sec-Butylbenzene	ND	0.100	tt	**	11	17	11	Ħ	
tert-Butylbenzene	ND	0.100	"		**	"	n	n	
Carbon disulfide	ND	0.100	H	n	h	**	n	v	
on tetrachloride	ND	0.100	n	n	H	•		u	
orobenzene	ND	0.100	11	н	b	н	n	**	
Unioroethane	ND	0.100	11	n	11	n	**	н	
Chloroform	ND	0.100	n	11	н		n	D	
Chloromethane	ND	0.500	n	n	Ħ	**	H	n	
2-Chlorotoluene	ND	0.100	n ·	**	n	и	"	11	
4-Chlorotoluene	ND	0.100	N	n	11	"	n	n	
Dibromochloromethane	ND	0.100	Ħ	19	н	"	11	U	
1,2-Dibromo-3-chloropropane	ND	0.500	17	"	n	Ħ	ti	ti	
1,2-Dibromoethane	ND	0.100	ø	*1	**	n	н	н	
Dibromomethane	ND	0.100	н	"	n		n	11	
1,2-Dichlorobenzene	ND	0.100	ŧŧ	n	Ħ	**	U	U	
1,3-Dichlorobenzene	ND	0.100	11	n	n	n	**	**	
1,4-Dichlorobenzene	ND	0.100	н	**	tı	n		Ħ	
Dichlorodifluoromethane	ND	0.100	n	rt	"	TP	**	ıı	
1,1-Dichloroethane	ND	0.100	"	p	н	71	17	U	
1,2-Dichloroethane	ИĎ	0.100	n	"	17	n	11	u	
1,1-Dichloroethene	ND	0.100	n	**	"	H	n	Ħ	
cis-1,2-Dichloroethene	ND	0.100	"	Ħ	n	n	n	n	
trans-1,2-Dichloroethene	ND	0.100		H	h	H	u	U	
1,2-Dichloropropane	ND	0.100	n	11	**	**	"	**	
1,3-Dichloropropane	' ND	0.100	11	11	n	n	11	n	
2,2-Dichloropropane	ND	0.100	н	11	h	n	II	D	
1,1-Dichloropropene	ND	0.100	n	и	н	11	n	u	
cis-1,3-Dichloropropene	ND	0.100	n	u u	b	**	n	u	
trans-1,3-Dichloropropene	ND	0.100	n	**	**	h	n	n	

th Creek Analytical - Bothell

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Portland

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-25 (B0K0613-25) Soil	Sampled: 11/22/00 12:05	Receiv	ed: 11/22/00	16:20					
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/02/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	11	**	н	11	#	n	
2-Hexanone	ND	1.00	11	Ħ	*	n	*1	"	
Isopropylbenzene	ND	0.100	н	Ħ	**	p	11	11	
p-Isopropyltoluene	ND	0.100	n	11	H	n	**		
Methylene chloride	ND	1.00	Ħ	**	п	n	71	п	
4-Methyl-2-pentanone	ND	1.00	11	17	tı	**	n	n	
Naphthalene	ND	0.100	**	**	n	ŧı	19	- п	
n-Propylbenzene	ND	0.100	17	19	tı	n	17	н	
Styrene	ND	0.100	11	17	"		н	n	
1,1,1,2-Tetrachloroethane	ND	0.100	n	"	"	U	**	я	
1,1,2,2-Tetrachloroethane	ND	0.100	n	**	n	*1	n	и	
Tetrachloroethene	ND	0.100	11	**	"	17	**	n	,~~.
Toluene	ND	0.100	•	n	**	• **	11	n	i i
1,2,3-Trichlorobenzene	ND	0.100	**	**	•	n	"	n	~
1,2,4-Trichlorobenzene	ND	0.100	n	n	**	11	**	Ħ	
1,1,1-Trichloroethane	ND	0.100	11	n	19	н	"	п	
1,1,2-Trichloroethane	ND	0.100	b	n	n	**	h	n	
Trichloroethene	ND	0.100	**	**	n	**	n	r	
Trichlorofluoromethane	ND	0.100	Ħ	**	77	n	h	ч	
1,2,3-Trichloropropane	ND	0.100	Ħ	n	4	u	n	п.	
1,2,4-Trimethylbenzene	ND	0.100	tt		"	u	h	н	
1,3.5-Trimethylbenzene	ND	0.100	97	11	n		н	н	
Vinyl chloride	ND	0.100	n	н .	н	п	l7	н .	
m,p-Xylene	ND	0.200	n	Ħ	n	"	H	n	
o-Xylene	ND	0.100	"	11	. "	n		11	
Surrogate: 1,2-DCA-d4	114% 7	0-130			"	"	"	"	
Surrogate: Toluene-d8	82.5 % 7	0-130			"	"	n	,,	
Surrogate: 4-BFB	76.0 % 7	0-130			"	"	"	#	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3B-34-2 (B0K0613-26) Soil	Sampled: 11/22/00 13:22	Receive	d: 11/22/00	16:20					
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/02/00	EPA 8260B	
Benzene	ND	0.100	'n	n	**	11	h	n	
Bromobenzene	ND	0.100	0	н	"	н	n	b	
Bromochloromethane	ND	0.100	н	n	11	17	n	**	
Bromodichloromethane	ND	0.100	n	ħ	"	n	**	li	
Bromoform	ND	0.100	11	,	n		H	11	
Bromomethane	ND	0.100	n	11	n	0	11	и	
2-Butanone	ND	1.00	11	11	ti	**	n	n	
n-Butylbenzene	ND	0.100	n	"	h	H	и	*	
sec-Butylbenzene	ND	0.100	U	н		11	n	n	
tert-Butylbenzene	ND	0.100	**	и	n	"	n	n	
Carbon disulfide	ND	0.100	n	"	H	17	н	"	
Carbon tetrachloride	ND	0.100	U	**	W	19	**	n	
robenzene	ND	0.100	н	17	11	"	H	"	
roethane	ND	0.100	n	n	11	,,	n	n	
Chloroform	ND	0.100	n	ħ	U	н	11	"	
Chloromethane	ND	0.500	n	17	19	n	tt	n	
2-Chlorotoluene	ND	0.100	n	**	h	11	n	n	
'4-Chlorotoluene	ND	0.100	**	*	11	и	11	u	
Dibromochloromethane	ND	0.100	n	U	"	*1	11	n	
1,2-Dibromo-3-chloropropane	e ND	0.500	tı	н	н	**	rt	n	
1,2-Dibromoethane	ND	0.100	n	"	n	"	n	n	
Dibromomethane	ND	0.100	11	11	n	н	11	U	
1.2-Dichlorobenzene	ND	0.100	11	n	11	**	н	n	
1,3-Dichlorobenzene	ND	0.100	11	п	и	**	n	17	
1,4-Dichlorobenzene	ND	0.100	17	**	**	n	11	11	
Dichlorodifluoromethane	ND	0.100	n	,,	**	**	n	,,	
1,1-Dichloroethane	ND	0.100	н	"	u	н	17	**	
1,2-Dichloroethane	ND	0.100	"	n	11	u	н	н	
1,1-Dichloroethene	ND	0.100	"	Ħ	n	**	И	III	
cis-1,2-Dichloroethene	ND	0.100	n	17	"	n	ш	11	
trans-1,2-Dichloroethene	ND	0.100	11	n	"	11	Ħ	**	
1,2-Dichloropropane	ND	0.100	ŧı	Ħ	н	n	n	10	
1,3-Dichloropropane	ND	0.100	11	17	0	11	11	н	
2,2-Dichloropropane	ND	0.100	11	н	h	**	n	IF.	
1,1-Dichloropropene	ND	0.100	D	U	н		0	11	
cis-1,3-Dichloropropene	ND	0.100	ti	11	и	n	. "	n	
trans-1,3-Dichloropropene	ND	0.100		н	n n	n	Ħ	ıı	
trans-1,3-Dictionobrobene	.112	000							

h Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-2 (B0K0613-26) Soil	Sampled: 11/22/00 13:22	Receive	d: 11/22/00 1	6:20					
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/02/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	tt	н	P	H	н	n	
2-Hexanone	ND	1.00	н	17	D	"	n .	tr	
Isopropylbenzene	ND	0.100	H	**	"	"	H	H	
p-Isopropyltoluene	ND	0.100	H	"	n	Ħ	. ***	n	
Methylene chloride	ND	1.00	**	17	11	þi	U	н	
4-Methyl-2-pentanone	ND	1.00	U	71	11		n	"	
Naphthalene	ND	0.100	II.	"	H	**	н	U	
n-Propylbenzene	ND	0.100	n	"	u	n	**	**	
Styrene	ND	0.100	71	n	n	n	11	ŧŧ	
1,1,1,2-Tetrachloroethane	ND	0.100	u	**	n	"	н	n	
1,1,2,2-Tetrachloroethane	ND	0.100	11	**	17	h	11	11	
Tetrachloroethene	ND	0.100	**	u	n		Ħ	, н	
Toluene	ND	0.100	н	"	n	. 11	r)	lt .	
1,2,3-Trichlorobenzene	ND	0.100	lt*	77	и	19	Ħ	D	ŀ
1,2,4-Trichlorobenzene	ND	0.100	**	17	n	rı	11	n	
1,1,1-Trichloroethane	ND	0.100	н	U	11	11	n	17	
1,1,2-Trichloroethane	ND	0.100	n	**	n	"	U	17	
Trichloroethene	ND	0.100	n	H	n	u	н	91	
Trichlorofluoromethane	ND	0.100	11	n	"	Ħ		91	
1,2,3-Trichloropropane	ND	0.100	n	tt	11	11	11	NI .	
1,2,4-Trimethylbenzene	ND	0.100	н	ю.	ıı	11	**	п	
1,3,5-Trimethylbenzene	ND	0.100	"	"	Ħ	Ħ	n	II .	
Vinyl chloride	ND	0.100	**	*1	н	n	**	11	
m,p-Xylene	ND .	0.200	n	"	n	"	IT	В	
o-Xylene	ND	0.100	п	n	11	*	"	<u></u>	
Surrogate: 1,2-DCA-d4	119 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	79.5 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
<u></u>		nt.	3. 11/22/00 3						
SB-34-5 (B0K0613-27) Soil			d: 11/22/00 1		AV 20027	11/27/00	12/02/00	ED 4 92 (OD	
Acetone	ND	1.00	mg/kg dry	1 "	0K28037	11/27/00	12/02/00	EPA 8260B	
Benzene	ND	0.100			,,	n		н	
Bromobenzene	ND	0.100	"	11	,,	" U	,		
Bromochloromethane	ND	0.100	11		"	"	,,	"	
Bromodichloromethane	ND	0.100	n	n	,,	"	"		
Bromoform	ND	0.100	"				" "		
Bromomethane	ND	0.100	17	Ħ	n	77			
2-Butanone.	ND	1.00	Ħ	11	**	**	Ħ	"	
n-Butylbenzene	ND	0.100	11	D	n	n	n	•	
sec-Butylbenzene	ND	0.100	D	Ħ	11	11	u	n	
tert-Butylbenzene	ND	0.100	Ħ	"	n	,,	"	n	
Carbon disulfide	מא	0.100	n	II .	"	U	11	17	
on tetrachloride	ND	0.100	*	**	11	N	11	H	
robenzene	ND	0.100	71	17	Ħ	Ħ	**	II.	
Cinoroethane	ND	0.100	n	**	"	**	n	11	
Chloroform	ND	0.100	11	b	н	n	n	n	
Chloromethane	ND	0.500	u	**	**	n	h	n	
2-Chlorotoluene	ND	0.100	ч	h	n	"	n	H	
4-Chlorotoluene	ND	0.100	v	**	"	"		n	
Dibromochloromethane	ND	0.100	11	11	**	**	H	n	
1,2-Dibromo-3-chloropropan	e ND	0.500	11	n		"	11	, ^{II}	
1,2-Dibromoethane	ND	0.100	ti	n		М	**	n	
Dibromomethane	ND	0.100	n	n	"	n	'n	D	
1,2-Dichlorobenzene	ND .	0.100	**	11	n	п	n	**	
1,3-Dichlorobenzene	ND	0.100	н		11	n	n	n	
1,4-Dichlorobenzene	ND	0.100	Ħ	n	n	11	n	u	
Dichlorodifluoromethane	ND	0.100	**	п	n	n	"	Pt .	
1,1-Dichloroethane	ND	0.100	n	n	n	н	n	ti .	
1,2-Dichloroethane	ND	0.100		н	n	Ħ	h	**	
•	ND	0.100	**	n	b	n	***	п	
1,1-Dichloroethene	ND	0.100	H	1)	*1	ti		n	
cis-1,2-Dichloroethene	. ND	0.100	n	н	n	. "	ty.	n	
trans-1,2-Dichloroethene	ND ND	0.100	n	ıı	17	n	11	n.	
1,2-Dichloropropane		0.100	11	n	и	11	n	10	
1,3-Dichloropropane	ND) II	n	n	н	b	n	
2,2-Dichloropropane	ND	0.100		**	н	n	**	и	
1,1-Dichloropropene	ND	0.100			17	**	n	n	
cis-1,3-Dichloropropene	ND	0.100		,,	"	n		n .	
trans-1,3-Dichloropropene	ND	0.100	"	"	11		••		

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-5 (B0K0613-27) Soil	Sampled: 11/22/00 13:27	Receive	d: 11/22/00 1	16:20	•				
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/02/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	и	'n	11	n	n	п	
2-Hexanone	ND	1.00	n	D	17	n	n	"	
lsopropylbenzene	ND	0.100	•	н	U	11	n	11	
p-Isopropyltoluene	ND	0.100	r	U	v	11	II .	•	
Methylene chloride	ND	1.00	n	#	*	**	"	**	
4-Methyl-2-pentanone	ND	1.00	H	**	11	n	**	'n	
Naphthalene	ND	0.100	n	**	"	71	H	n	
n-Propylbenzene	ND	0.100	n	11	**	19	n	n	
Styrene	ND	0.100	n	H	n	n	**	'n	
1,1,1,2-Tetrachloroethane	ND	0.100	n	н	W	n	11	n	
1,1,2,2-Tetrachloroethane	ND	0.100	**	n	Ħ	"	**	Ħ	
Tetrachloroethene	ND	0.100	n	**	**	н	п	Ħ	
Toluene	ND	0.100	н	11	**	11	v	н	1
1,2,3-Trichlorobenzene	ND	0.100	•	**	**	n	Ħ	n	*
1,2,4-Trichlorobenzene	ND	0.100	Ħ	**	**	n	n	н	
1,1,1-Trichloroethane	ND	0.100	n	11	n	h	n	**	
1,1,2-Trichloroethane	ND	0.100	n	Ħ	Ħ	n	Ħ	**	
Trichloroethene	0.119	0.100	n	n	п	U	19	*	
Trichlorofluoromethane	ND	0.100		**	H	Ħ	n	n	
1,2,3-Trichloropropane	ND	0.100	n	**	n	H	n	II .	
1,2,4-Trimethylbenzene	ND	0.100	н	•	н	tı	n .	n	
1,3,5-Trimethylbenzene	ND	0.100	H	n	P	n	**	n	
Vinyl chloride	ND	0.100	19	n	17	n	**	. "	
m,p-Xylene	ND	0.200	P .	n	n	n	H	н	
o-Xylene	ND	0.100	n	"	11	tr	**	n	
Surrogate: 1,2-DCA-d4	120 %	70-130	••		"	"	"	n	
Surrogate: Toluene-d8	86.2 %	70-130			"	"	n	"	
Surrogate: 4-BFB	77.8 %	70-130			"	"	,,	,,	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

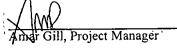
Volatile Organic Compounds by EPA Method 8260B

North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-34-10 (B0K0613-28) Soil	Sampled: 11/22/00 13:32	Receiv		16:20					
Acetone	ND	1.00	mg/kg dry	1	0K28037	11/27/00	11/30/00	EPA 8260B	
Benzene	ND	0.100	" " " " "	D	"	11	11	11	
Bromobenzene	ND	0.100	11	**	. "	*1	n	v	
Bromochloromethane	ND	0.100	н	11	u	11	n	11	
Bromodichloromethane	ND	0.100	н	,	**	u	n	n	
Bromoform	ND	0.100	n	H	•	n	Ħ	n	
Bromomethane	ND	0.100	11		n	n	н	n	
2-Butanone	ND	1.00	11		,,	**	h	u	
	ND	0.100	н	n		11	v	n	
n-Butylbenzene	ND	0.100	н	н	"	U	**	н	
sec-Butylbenzene	' ND	0.100	H	n	**	**	76	и	
tert-Butylbenzene	ND ND	0.100	10	n	n	Ħ	n	u	
Carbon disulfide	ND	0.100	,,	u	11	11		11	
	ND	0.100	н	n	ti	u		n	
obenzene	ND ND	0.100	11		**	*1	**	n	
Cincoethane	ND	0.100	"	11	17	*1	. н	n	
Chloroform	ND	0.500	*1	u	n	п	11	11	
Chloromethane	ND	0.100	•	**	**	7 11		tı	
2-Chlorotoluene	ND ND	0.100	n	n	**	11	11	h	
4-Chlorotoluene	ND ND	0.100	17	11	11	'n	n	ty.	
Dibromochloromethane	ND	0.500	11	11	н	ır	u	11	
1,2-Dibromo-3-chloropropane	ND ND	0.100	11	11	p.	**	•	н	
1,2-Dibromoethane		0.100	lt.	11	n	"	n	n	
Dibromomethane	ND ND	0.100	17	**	**	b		**	
1,2-Dichlorobenzene		0.100	,,	17	и	l7	11	11	
1,3-Dichlorobenzene	ND	0.100	**		v		n	n	
1,4-Dichlorobenzene	ND ND	0.100	**	**	,,	**	н	n	
Dichlorodifluoromethane	ND ND	0.100	17	н	n	н			
1,1-Dichloroethane	ND		n	n	n		n		
1,2-Dichloroethane		0.100	n	H	n	17	n	11	
1,1-Dichloroethene	ND	0.100 0.100	11	"	n	u	tr	n	
cis-1,2-Dichloroethene	ND		,,	11	11	11	n	n	
trans-1,2-Dichloroethene	ND	0.100	н	**	**	ħ		11	
1,2-Dichloropropane	ND	0.100	n		 N	11	n	ŧ	
1,3-Dichloropropane	ND	0.100	"		"		. ,		
2,2-Dichloropropane	ND	0.100		"	"	. 11	и	n	
1,1-Dichloropropene	ND	0.100					,	n	
cis-1,3-Dichloropropene	ND	0.100	Ħ	**	"	**	"	"	
trans-1,3-Dichloropropene	ND	0.100	н	H	**	n	"	11	

h Creek Analytical - Bothell

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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-10 (B0K0613-28) Soil	Sampled: 11/22/00 13:33	2 Receiv	ed: 11/22/00	16:20	All Maria				
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	11/30/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	n	"	"	**	"	**	
2-Hexanone	ND	1.00		**		"		"	
lsopropylbenzene	ND	0.100	n	11	"				
p-Isopropyltoluene	ND	0.100	"	"	**	n	"	*	
Methylene chloride	ND	1.00		**		**	**	**	
4-Methyl-2-pentanone	ND	1.00	"	n		"	*	н	
Naphthalene	ND	0.100	"			n	н	и.	
n-Propylbenzene	ND	0.100			**	""	11	"	
Styrene	ND	0.100	n	и		n	**	n	
1,1,1,2-Tetrachloroethane	ND	0.100	"	11	11	"	"	n	
1,1,2,2-Tetrachloroethane	ND	0.100	n		**	"	н	n	
Tetrachloroethene	ND	0.100	H	n	**	**	n	**	
Toluene	ND	0.100	п	"	"	"	"	"	
1.2.3-Trichlorobenzene	ND	0.100	n	n		"	11	"	
1,2,4-Trichlorobenzene	ND	0.100	11	н		"	"	n	
1,1,1-Trichloroethane	ND	0.100	"	11	**	**	"	"	
1,1,2-Trichloroethane	ND	0.100	**	**	"	n	11	"	
Trichloroethene	0.213	0.100	n	"		**		"	
Trichlorofluoromethane	ND	0.100	n	n	"	**	17	"	
1,2,3-Trichloropropane	ND	0.100	"	"	"	"	**	n	
1,2,4-Trimethylbenzene	ND	0.100	"	**		**	**		
1,3,5-Trimethylbenzene	ND	0.100	n	"	"	"	n		
Vinyl chloride	ND	0.100	**	"	"	"	n	"	
m,p-Xylene	ND	0.200	"	n	**	"	n	"	
o-Xylene	ND	0.100		n	n		*		
Surrogate: 1,2-DCA-d4	94.7 % 7	0-130			"	"	"	"	
Surrogate: Toluene-d8	97.8 % 7	0-130			"	n	"	"	
Surrogate: 4-BFB	87.1 % 7	0-130			"	"	"	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	orting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Complete 11/22/00 13:37	Dogojsk	ed: 11/22/00	16:20				<u> </u>	
SB-34-15 (B0K0613-29) Soil		1.00		10.20	0K28037	11/27/00	11/30/00	EPA 8260B	
Acetone	ND		mg/kg dry	n T	UNZ8U31	11/2//00	11/20/00	U A 0200D	
Benzene	ND	0.100	n	,,	н		н	11	
Bromobenzene	ND	0.100	**	Ħ	,	19	"	ıı	
Bromochloromethane	ND	0.100		n	**	**		н	
Bromodichloromethane	ND	0.100	"			,	lt .	b?	
Bromoform	ND	0.100	"	и		ii			•
Bromomethane	ND	0.100		,,	"	 H			
2-Butanone	ND	1.00	II	,,	,,	**	n		
n-Butylbenzene	ND	0.100	11			,, n	 11		
sec-Butylbenzene	ND	0.100	17	n			n	,	
tert-Butylbenzene	ND	0.100	"	17	n	**	"	"	
Carbon disulfide	ND	0.100	**	11	н	H		"	
Carbon tetrachloride	ND	0.100	"	ı	"	n	Ħ		
robenzene	ND	0.100	"	n	11	**	ri	n	
cmoroethane	ND	0.100	n	n	n	n	Ħ	-	
Chloroform	ND	0.100	n	11	H	11	Ħ	*1	
Chloromethane	ND	0.500	**	n	"	н	Р	h	
2-Chlorotoluene	ND	0.100	#1	**	n	н	v	"	
4-Chlorotoluene	ND	0.100	"	h	n	11		n	
Dibromochloromethane	ND	0.100	H	17	"	*1	n	h	
1,2-Dibromo-3-chloropropane	ND	0.500	IP	n	17	"	"	n	
1,2-Dibromoethane	ND	0.100	11		11	**	"	h	
Dibromomethane	ND	0.100	n	11	Ħ		v	u	
1,2-Dichlorobenzene	ND	0.100	**	n	۳.	n	n	**	
1,3-Dichlorobenzene	ND	0.100	*1	11	и	"	11	"	
1,4-Dichlorobenzene	ND	0.100	11	n	n	n	11	**	
Dichlorodifluoromethane	ND	0.100	11	17	u	n	n	n	
1,1-Dichloroethane	ND	0.100	n	II .	n	n	i1	n	
1,2-Dichloroethane	ND	0.100		n	tr	ıt	11	н	
1.1-Dichloroethene	ND	0.100	11	"	0	n	Ħ	n	
cis-1,2-Dichloroethene	ND	0.100	11	n	n	**	n	n	
trans-1,2-Dichloroethene	ND	0.100	11	н	17	ıı	11	11	
1,2-Dichloropropane	ND	0.100	ti .	n	ti	n	n	n	
1,3-Dichloropropane	ND	0.100	lt .	11	,	71	н	n	
2,2-Dichloropropane	ND	0.100	11	н	"	n	"	Ħ	
1,1-Dichloropropene	ND	0.100	н	10	н	u	n	H	
	ND ND	0.100	n	11	н	п	ti	11	
cis-1,3-Dichloropropene trans-1,3-Dichloropropene	ND	0.100	**	17	н	n	11	п	

1 Creek Analytical - Bothell

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Project Manager



Spokane

Portland

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-15 (B0K0613-29) Soil	Sampled: 11/22/00 13:3'	7 Receiv	ed: 11/22/00	16:20				,	
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	11/30/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	н	n	Ħ	n	Ħ	n	
2-Hexanone	ND	1.00	n	n	**	tı	**	ti	
Isopropylbenzene	ND	0.100	"	**	11	17	n	'n	
p-lsopropyltoluene	ND	0.100	n	**	**	11	n	n	•
Methylene chloride	ND	1.00	n	н	11	n	H	n	
4-Methyl-2-pentanone	ND	1.00	II	**	*1	17	17	н	
Naphthalene	ND	0.100	n	n	11	11	n	n	
n-Propylbenzene	ND	0.100	n	**	"	n	n	n	-
Styrene	ND	0.100		**	**		n	n	
1,1,1,2-Tetrachloroethane	ND	0.100	n	**	11	"	n	n	
1,1,2,2-Tetrachloroethane	ND	0.100	II .	**	77	n	"	n	
Tetrachloroethene	ND	0.100	11	**.	"		,,	**	1 3-
Toluene	ND	0.100	17	**	**			ti	Ţ
1,2,3-Trichlorobenzene	ND	0.100	p	**	n		•	n	\/
1,2,4-Trichlorobenzene	ND	0.100	••	n	*1	ti	**	**	
1,1,1-Trichloroethane	ND	0.100	n	tt	n		11	yı .	
1,1,2-Trichloroethane	ND	0.100	b	31	**	**	n	n	
Trichloroethene	0.332	0.100	H	11	*1	n	v	•	
Trichlorofluoromethane	ND	0.100	h	31	н	**	11		
1,2,3-Trichloropropane	ND	0.100	u	71	, 11	ti	11	ir	
1,2,4-Trimethylbenzene	ND	0.100	n	**	n	**	**	n	
1,3,5-Trimethylbenzene	ND	0.100	n	н	н	ħ		n	
Vinyl chloride	ND	0.100	h	h	ļ	#	н	II.	
m,p-Xylene	ND	0.200	ıı	n	H	n	н	b	
o-Xylene	ND	0.100	и	u	"	*	n	n	
Surrogate: 1,2-DCA-d4	103 % 7	0-130			"	"	,,	n	
Surrogate: Toluene-d8	102 % 7	0-130			"	"	"	<i>n</i>	
Surrogate: 4-BFB	87.2 % 7	0-130			"	"	"	n	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

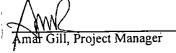
12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Re Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-20 (B0K0613-30) Soil	Sampled: 11/22/00 13:42						_		
Acetone SB-34-20 (B0K0013-30) 3011	ND	1.00	mg/kg dry	1	0K28037	11/27/00	12/02/00	EPA 8260B	
Benzene	ND	0.100	" " " "	n	lt .	"	h	11	
Bromobenzene	ND	0.100	n	11		**	71	. "	
Bromochloromethane	ND	0.100	D	77	11	**	t*	n	
Bromodichloromethane	ND	0.100	11	н	**	11	"	n	
Bromoform	ND	0.100	n	11	11	H	11	#1	
Bromomethane	ND	0.100	n	71	11	••	•	b	
2-Butanone	ND	1.00	n	ŧı	11	n	**	D	
n-Butylbenzene	ND	0.100	11	n	н	"		н	
sec-Butylbenzene	ND	0.100	Ħ	**	n	**	**	n	
tert-Butylbenzene	ND	0.100	11	**	11	"	н	U	
Carbon disulfide	ND	0.100	11	h	Ħ	17	n	n	
Carbon tetrachloride	ND	0.100	n	ti ti	t7	n	n	H	
probenzene	ND	0.100	11	v	tr	"	11	11	
Chloroethane	ND	0.100	n	"	**	**	n	II .	
Chloroform	ND	0.100	**	n	n	n	n	**	
Chloromethane	ND	0.500	n	"	n	**	17	10	
2-Chlorotoluene	ND	0.100	11	11	0	π	**	n	
4-Chlorotoluene	ND	0.100	u	n	**	n	n	n	
Dibromochloromethane	ND	0.100	n	ıı	ir	н	n	11	
1,2-Dibromo-3-chloropropane	ND	0.500	17	n	10	11	**	n	
1,2-Dibromoethane	ND	0.100	n	H	11	17	n	и .	
Dibromomethane	ND	0.100	n	u	17	"	b	ti	
1,2-Dichlorobenzene	ND	0.100	ir .	Ħ	n	n	**	Ħ	
1,3-Dichlorobenzene	ND	0.100	11	n	"	11	n	н	
1,4-Dichlorobenzene	ND	0.100	"	н	"	n	n	U	
Dichlorodifluoromethane	ND	0.100	н	10	н	**	h	11	
1,1-Dichloroethane	ND	0.100	n		ti	**	**	н	
1,2-Dichloroethane	ND	0.100	11	H	11	it	11	n	
1,1-Dichloroethene	ND	0.100	11	н	н	n	h	u	
cis-1,2-Dichloroethene	ND	0.100	n	**	•	**	IP .	11	
trans-1,2-Dichloroethene	ND	0.100	n	D	".	**	9	н	
1,2-Dichloropropane	ND	0.100	n	11	н	n	11	h	
1,3-Dichloropropane	ND .	0.100	11	Ħ	h	tt	**	D.	
2,2-Dichloropropane	ND	0.100	n n	11	11	n	U	11	
1,1-Dichloropropene	ND	0.100	11	11	n	H	"	11	
cis-1,3-Dichloropropene	ND	0.100	n	и	n	u	H	n	
trans-1,3-Dichloropropene	ND	0.100	,	17	11	п	n	**	
nais 1,5 Diemoropropene	•								

th Creek Analytical - Bothell

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Portland

Bend

541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011 Project Manager: Bryan Graham 12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B

North Creek Analytical - Bothell

		eporting Limit	Units	Dilution	Batch	Dranned	Analyzed	Method	Notes
Analyte	Result	Lillin	Units	מסווטווכו	Datell	- repared	Allalyzed	Method	Notes
SB-34-20 (B0K0613-30) Soil	Sampled: 11/22/00 13:42	Received: 11/22/00 16:20					<u> </u>		
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/02/00	EPA 8260B	
Hexachlorobutadiene	ND	0.100	n	Ħ	"	*1	17	н	
2-Hexanone	ND	1.00	n	n	H	**	b	19	
Isopropylbenzene	ND	0.100	II .	n	,,	r	n	Ħ	
p-Isopropyltoluene	ND	0.100	h	n	n	"	н	n	
Methylene chloride	ND	1.00	Ħ	н	Ħ	17	11	н	
4-Methyl-2-pentanone	ND	1.00	"	11	n	11	я	н	
Naphthalene	ND	0.100	u	Ħ	Ħ	н	11	H	
n-Propylbenzene	ND	0.100	11	"	ч	*1	41	n	
Styrene	ND	0.100	tr	**	**	n		**	
1,1,1,2-Tetrachloroethane	ND	0.100	n	n	**	**	•	**	
1,1,2,2-Tetrachloroethane	ND	0.100		11	11	n		n	
Tetrachloroethene	ND	0.100	"	h		**	••	n	
Toluene	ND	0.100	n	"	n	D	n	n	
1,2,3-Trichlorobenzene	ND	0.100	11	p	H	n	"	. "	
1,2,4-Trichlorobenzene	ND	0.100	11	v		n	**	n	
1,1,1-Trichloroethane	ND	0.100	n		n	'n	**	u	
1,1,2-Trichloroethane	ND	0.100	u	*1		n	**	n	
Trichloroethene	0.422	0.100	H	**	n		•	v.	
Trichlorofluoromethane	ND	0.100	11	**	*11	H	п	77	
1,2,3-Trichloropropane	ND	0.100	n	11	11	**	l y	11	
1,2,4-Trimethylbenzene	ND	0.100	н		, "	11	n	U	
1,3,5-Trimethylbenzene	ND	0.100	n		lt.	n	H	TI TI	
Vinyl chloride	ND.	0.100	n	lt.	Ħ	H	tı	Ħ	
m,p-Xylene	ND	0.200	'n	n	p	m	11	**	
o-Xylene	ND	0.100	n	17	n	17	11	н	
Surrogate: 1,2-DCA-d4	122 % 7	0-130			"	"	,,	н	
Surrogate: Toluene-d8	87.7 % 7	0-130			"	n	,,	**	
Surrogate: 4-BFB	79.5 % 7	0-130			"	"	"	n	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-25 (B0K0613-31) Soil	Sampled: 11/22/00 13:47	Receiv	ed: 11/22/00	16:20					
Acetone	ND	1.00	mg/kg dry	· 1	0K28037	11/27/00	12/01/00	EPA 8260B	
Benzene	ND	0.100	11	n		H	#1	11	
Bromobenzene	ND	0.100	n	n	**	H	*1	h	
Bromochloromethane	ND	0.100	**	n	n	u	H	U	
Bromodichloromethane	ND	0.100	11	*1	u	**	н	#	
Bromoform	ND	0.100	n	n	*1	H	,,	11	
Bromomethane	ND	0.100	н	n	n	**	u	n	
2-Butanone	ND	1.00	17	11	n	**		Ħ	
n-Butylbenzene	ND	0.100	••	11	**	17	н	"	
sec-Butylbenzene	ND	0.100	H	"	**		ir .	n	
tert-Butylbenzene	ND	0.100	n	11	n	"	**	п	
Carbon disulfide	ND	0.100	11	p	**	"	**	U	
Carbon disumde Carbon tetrachloride	ND	0.100	,,	n	**	n	11	**	
5	ND ND	0.100	ii	,,	н	**	N	11	
)robenzene 	ND	0.100	11	n	n	*	n	17	
	ND ND	0.100	*	n	n	n	11	n	
Chloroform	ND	0.500	,,	н	n	**	**	n	
Chloromethane	ND	0.100	n	11	U	n	P [†]	n	
2-Chlorotoluene	ND ND	0.100	11	,,	**	n	17	**	
4-Chlorotoluene	ND	0.100	n	**	17	11	**	19	
Dibromochloromethane	ND ND	0.100	11	11	ti	19	H	n	
1,2-Dibromo-3-chloropropane	ND	0.100	n	n	н	11	.,	n	
1,2-Dibromoethane		0.100	U	. "	n	**	**	n	
Dibromomethane	ND ·		**	j i	н	11	n	11	
1,2-Dichlorobenzene	ND	0.100	n	и	71	n	u	**	•
1,3-Dichlorobenzene	ND	0.100	" "		,	**	**	n	
1,4-Dichlorobenzene	ND	0.100	,,	 N			n	н	
Dichlorodifluoromethane	ND	0.100		11	11	. 11	*1	n	
1,1-Dichloroethane	ND	0.100			p	**	11	n	
1,2-Dichloroethane	ND	0.100		11	n	**	19	*1	
1,1-Dichloroethene	ND	0.100	,,	 n	**		11	D	
cis-1,2-Dichloroethene	ND	0.100	" "	" H			n	,,	
trans-1,2-Dichloroethene	ND	0.100		, n	.,	,, H		n	
1,2-Dichloropropane	ND	0.100	11		"	,	u	. "	
1,3-Dichloropropane	ND	0.100	11	"			"	"	
2,2-Dichloropropane	ND	0.100	u	"	11	**		*1	
1,1-Dichloropropene	ND	0.100	11	**	Ħ	11	n		
cis-1,3-Dichloropropene	ND	0.100	n	v	*1	n	Ħ	,,	
trans-1,3-Dichloropropene	ND	0.100	**	ti	n .	11	И	"	

h Creek Analytical - Bothell

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nal Gill, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network**

Page 69 of 132



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

	R	eporting				-			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-25 (B0K0613-31) Soil	Sampled: 11/22/00 13:47	Receiv	ed: 11/22/00	16:20					
Ethylbenzene	ND	0.100	mg/kg dry	1	0K28037	11/27/00	12/01/00	EPA 8260B	= =
Hexachlorobutadiene	ND	0.100	н	n	11	17	11	n	
2-Hexanone	ND	1.00	h	b	IT	U	h	и	
Isopropylbenzene	ND	0.100		h	n	Ħ	D)	tt	
p-Isopropyltoluene	ND	0.100	'n	ь.	n	H '	n	n	
Methylene chloride	ND	1.00	ii	н		н	tr	,	
4-Methyl-2-pentanone	ND	1.00	17	h	u	17	•	n	
Naphthalene	ND	0.100	u	n	**	n	**	n	
n-Propylbenzene	ND	0.100	tt	**	11		**	n	
Styrene	ND	0.100	11	Ħ	71		79	n	
1,1,2-Tetrachloroethane	ND	0.100	n	11	n	b	н	H	
1,1,2,2-Tetrachloroethane	ND	0.100	11	**	17	n	19	1 "	
Tetrachloroethene	ND	0.100	n	n	n	**	19	11	
Toluene	ND	0.100	**	*1	"	•		Ħ	Ì
1,2,3-Trichlorobenzene	ND	0.100	n	91	.,	"	•	17	
1,2,4-Trichlorobenzene	ND	0.100	н	n	n	11	n	FF.	
1,1,1-Trichloroethane	ND	0.100	•	n	u	11		**	
1,1,2-Trichloroethane	ND	0.100	Ħ	**	**	n	**	li .	
Trichloroethene	0.209	0.100	n	li .	**	"	**	n	
Trichlorofluoromethane	ND	0.100	Ħ	n		n	н	n	
1,2,3-Trichloropropane	ND	0.100	n	n	j#	н	IT	**	
1,2,4-Trimethylbenzene	ND	0.100	17	**			11	H	
1,3,5-Trimethylbenzene	ND	0.100	tr	**	l+	**	H		
Vinyl chloride	ND	0.100	tr	"	n	#	н	n	
m,p-Xylene	ND	0.200	u	**	н	11	. **	n	
o-Xylene	ND	0.100	n	Ħ	n	17	n	n	
Surrogate: 1,2-DCA-d4	116% 7	0-130			,,	"	17	n	
Surrogate: Toluene-d8	85.2 % 7	0-130			"	"	"	"	
Surrogate: 4-BFB	· 79.9 % 7	0-130			"	H	11	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C

North Creek Analytical - Bothell

A malauta	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
Analyte					201011				
SB-32-2 (B0K0613-07) Soil	Sampled: 11/22/00 09:50		d: 11/22/00 1	16:20					
Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Acenaphthylene	ND	0.330	tr	Ħ	11	19	n	ir .	
Aniline	· ND	0.330	**	H	17	n	**	n	
Anthracene	ND	0.330	"	H	n	"	n	11	
Benzoic Acid	ND	1.00	р	**	**	н	11	н	
Benzo (a) anthracene	ND	0.330	ti	**		11	n	n	
Benzo (b) fluoranthene	ND	0.330	tı	11	"	11	li .	**	
Benzo (k) fluoranthene	ND	0.330	II.	Ħ	"	*1	n	n	
Benzo (ghi) perylene	ND	0.330	I)	**	**	,,	**	h	
Benzo (a) pyrene	ND	0.330	н	н	۳.	**	н	ti .	
Benzyl alcohol	ND	0.330	ų	n	"	Ħ	n	**	
Bis(2-chloroethoxy)methane	ND	0.330	n	"	11	н	**	19	
Rie(?-chloroethyl)ether	ND	0.330	"	**	n	n	n	n	
-chloroisopropyl)ether	ND	0.330	"	n	n	Ħ	и	11	
ethylhexyl)phthalate	ND	0.330	11	n	н	**	n	n	
4-Bromophenyl phenyl ether	ND	0.330	n	n	**	n	11	H	
Butyl benzyl phthalate	ND	0.330	n	**	"	n	h	н	
Carbazole	ND	0.330	n	H	"	**	n	H	
4-Chloroaniline	ND	0.500	11	n	n	n	11	H	
2-Chloronaphthalene	ND	0.330	ıı .	n	n	0	n	11	
4-Chloro-3-methylphenol	ND	0.330	11	. v	n	11	n	n	
2-Chlorophenol	ND	0.330	и	11	tt	11		p	
4-Chlorophenyl phenyl ether	ND	0.330	n	17	l7	**	Ħ	11	
Chrysene .	ND	0.330	n	H	11	n	**	n	
Dibenz (a,h) anthracene	ND	0.330	n	11	11	p	19	н	
Dibenzofuran	ND	0.330	11	**	**	n	H	11	
Di-n-butyl phthalate	ND	0.330	tı	н	n	71	11	11	
1,3-Dichlorobenzene	ND	0.330	**	n	11	п	**	п	
1,4-Dichlorobenzene	ND	0.330		n	h	n	15	n	
1,2-Dichlorobenzene	ND	0.330		17	n	**	н	11	
3,3'-Dichlorobenzidine	ND	5.00	н	n	11	n	u u	71	
2,4-Dichlorophenol	ND	0.330	n	н	**	ir .	11	Ħ	
Diethyl phthalate	ND	0.330	n	71	h	н	н	n	
2,4-Dimethylphenol	ND	0.330	ti	n	"	11	0	n	
Dimethyl phthalate	ND	0.330	н	n	"	ır	71	n	
	ND	0.500	И	н	n	n	Ħ	n	
4,6-Dinitro-2-methylphenol	ND ND	0.500	n	n	n	**	*	17	
2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND	0.500	11	n	**	n	,	11	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	eporting. Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-2 (B0K0613-07) Soil				16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	н	Ħ	Ħ	"	11	"	
Fluoranthene	ND	0.330	n	n	**	"	n	h	
Fluorene	ND	0.330	11	h	If	17	17	lt	
Hexachlorobenzene	ND	0.330	n	17	H	11	**	H	
Hexachlorobutadiene	ND	0.330	н	11	н	U	n	11	
Hexachlorocyclopentadiene	, ND	0.500	п	n	11	**	**	n	
Hexachloroethane	ND	0.330	n	**	11	**	"	n	
Indeno (1,2,3-cd) pyrene	ND	0.330	19	n	**	**	17	n	
Isophorone	ND	0.330	11	n	**	n	n	n	
2-Methylnaphthalene	ND	0.330	11	n	11	17	n	n	
2-Methylphenol	ND	0.330	ti	11	H	Ħ		n	
3 & 4-Methylphenol	ND	0.330	**	"	Ü	n	ŧı	"	/* · · ·
Naphthalene	ND	0.330	n	"	11	**	11	h	(
2-Nitroaniline	ND	0.500	н	11	71	Ħ	**	•	• •
3-Nitroaniline	ND	0.500	,,	11	**	n	17	m	
4-Nitroaniline	ND	0.500	n	tı	**	"	11	**	
Nitrobenzene	ND	0.330	n	"	11	tr .		"	
2-Nitrophenol	ND	0.330	"	n	H		H	и	
4-Nitrophenol	ND	0.500	ti	u	n	n	**	и	
N-Nitrosodiphenylamine	ND	0.330	11	н	n	н	**	n	
N-Nitrosodi-n-propylamine	ND	0.330	n	н	li	**		п	
Pentachlorophenol	ND	0.500	n	**	**	10	n	11	
Phenanthrene	ND	0.330	11	Ħ	**	n	н	Ü	
Phenol	ND	0.330	"	11	п	v	n	n	
Pyrene	ND	0.330	ět.	n	77	**	n	n	
1,2,4-Trichlorobenzene	ND	0.330	n	11	n		**	n	
2,4,5-Trichlorophenol	ND	0.330	p	**	H	n	Ħ	ti	•
2,4,6-Trichlorophenol	ND	0.330	11	11	n	н	n	n	
Surrogate: 2-FP	99.5 %	10-123			"	"	"	"	
Surrogate: Phenol-d6		0-130			,,	"	"	"	
Surrogate: 2,4,6-TBP		10-131			"	"	"	,,	
Surrogate: Nitrobenzene-d5		10-126			,,	"	"	**	
Surrogate: 2-FBP	,,,,,	24-125			,,	"	"	"	
Surrogate: p-Terphenyl-d14		15-135			"	,,	"	"	
Surrogaie: p-1erpnenyi-a14	124 /0								

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project Number: n/a

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

	K	eporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-5 (B0K0613-08) Soil	Sampled: 11/22/00 09:54	Receive	d: 11/22/00	16:20					
Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Acenaphthylene	ND	0.330	n	н	11	It	н	*1	
Aniline	ND	0.330	11	n	"	ıı	н	n	
Anthracene	ND	0.330	n	n	"	Ħ	P	**	
Benzoic Acid	ND	1.00	n	11	"	H	п	n	
Benzo (a) anthracene	ND	0.330	n	11	11	Ħ	n	11	
Benzo (b) fluoranthene	ND	0.330	**	n	н	**	**	ti	
Benzo (k) fluoranthene	ND	0.330	n	н	**	į,	"	11	
Benzo (ghi) perylene	ND	0.330	и		11	**	n	n	
Benzo (a) pyrene	ND	0.330	h	H	n	"	**	n	
Benzyl alcohol	ND	0.330	it .	17	u	"	**	h	
Bis(2-chloroethoxy)methane	ND	0.330	n	"	"	"	**	n	
chloroethyl)ether المعتادة	ND	0.330	11	"	11	11		ti	
-chloroisopropyl)ether	ND	0.330	11	**	H	11	· ·	n	
المارح-ethylhexyl)phthalate	ND	0.330	11	n	n	*1	11		
4-Bromophenyl phenyl ether	ND	0.330	H	n	· ·	H	ir	Ħ	
Butyl benzyl phthalate	ND	0.330	ti	n	**	bi	n	. 11	
Carbazole	ND	0.330	11	11	n	ii .	n	tr	
4-Chloroaniline	ND	0.500	n	"	n	"	n	tr	
2-Chloronaphthalene	ND	0.330	ħ	н	10	**	**	tt	
4-Chloro-3-methylphenol	ND	0.330	U	IT	11	**	Ħ	п	
2-Chlorophenol	ND	0.330	11	"	**		n	н	
4-Chlorophenyl phenyl ether	ND	0.330	11	11	"		n	n	
Chrysene	ND	0.330	n	n	17	h	II .	n	
Dibenz (a,h) anthracene	ND	0.330	Ħ	n	11	n	u	**	
Dibenzofuran	ND	0.330	Ħ	11	n	n	*11	н	
Di-n-butyl phthalate	ND	0.330	to	n		'n	**	n	
1,3-Dichlorobenzene	ND	0.330	¥	lr .	**	11	**	n	
1,4-Dichlorobenzene	ND	0.330	11	"	77	n	**	n	
1,2-Dichlorobenzene	ND	0.330	11	11	17	n	11	п	
3,3'-Dichlorobenzidine	ND	5.00	Ħ	Ħ	"	11	n	tr.	
2,4-Dichlorophenol	ND	0.330	n	H	11	11	11	n	
Diethyl phthalate	ND	0.330	ir.	н	и	11	n	11	
2,4-Dimethylphenol	ND	0.330	**	u	"	n	11	n	
Dimethyl phthalate	ND	0.330	77	"	"	n	**	n	
4,6-Dinitro-2-methylphenol	ND	0.500	n	n	**	n	*1	н	•
2,4-Dinitrophenol	ND	0.500	n	11	. "	u	n	"	
2,4-Dinitrotoluene	ND	0.500	n		ıı	**	17	n	

1 Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C

North Creek Analytical - Bothel	1
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		eporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-5 (B0K0613-08) Soil	Sampled: 11/22/00 09:54	Receive	d: 11/22/00 1	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	it.	11	n	Ħ	19	н	
Fluoranthene	ND	0.330	tr	11	n	**	17	11	
Fluorene	ND	0.330	11	"	**	n	n	н	
Hexachlorobenzene	ND	0.330	tr	*1	**	H	n	Ħ	
Hexachlorobutadiene	ND	0.330	11	••	11	u	"	Ħ	
Hexachlorocyclopentadiene	ND	0.500	v	"	h	11	Ħ	n	
Hexachloroethane	ND	0.330	u	n		11	n	n	
Indeno (1,2,3-cd) pyrene	ND	0.330	*1	Ħ	17	12	**	n	
Isophorone	ND	0.330	**	71	n	• "	н	ti	
2-Methylnaphthalene	ND	0.330	n	**	n	11	v	n	
2-Methylphenol	ND	0.330	n	**	n	n	n	11	
3 & 4-Methylphenol	ND	0.330	•	17	n	**	n	н	
Naphthalene	ND	0.330	11	n		"	11	н	
2-Nitroaniline	ND	0.500	**	н	**		**	Ħ	
3-Nitroaniline	ND	0.500	n	**	n	n	Ħ	n	
4-Nitroaniline	ND	0.500	n	n	"	**		n	
Nitrobenzene	ND	0.330	ır	n	n	11		н	
2-Nitrophenol	ND	0.330	11		н	н		n	
4-Nitrophenol	ND	0.500	Ħ	n	"	þi	n	n	
N-Nitrosodiphenylamine	ND	0.330	н	n	IT	U	n	"	
N-Nitrosodi-n-propylamine	ND	0.330		n	н	n	n	m	
Pentachlorophenol	ND	0.500	n	n	н	n	**	n	!
Phenanthrene	ND	0.330	n	n	**	li .	н ,	**	;
Phenol	ND	0.330	*1	n	11	ıı	n	n	
Pyrene	ND	0.330	**	H	n	u	n	n	
1,2,4-Trichlorobenzene	ND	0.330	11	Ħ	п	n	n	n	
2,4,5-Trichlorophenol	ND	0.330	19	n	п	n	n	н	
2,4,6-Trichlorophenol	ND	0.330	17	n	tı	17	**	11	
		0.330							
Surrogate: 2-FP					,,	 ,,	,,	"	
Surrogate: Phenol-d6	= = : : : -	10-130			,,	,,	,,	"	
Surrogate: 2,4,6-TBP	• • • • •	10-131			"	"	,,	"	
Surrogate: Nitrobenzene-d5		10-126						,,	
Surrogate: 2-FBP	****	24-125			"	"	"		
Surrogate: p-Terphenyl-d14	116%	15-135	1		**	"	"	**	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project: West Commodore Way Phase II

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

·		porting				_			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method 	Notes
SB-32-10 (B0K0613-09) Soil	Sampled: 11/22/00 10:02	Receiv	ed: 11/22/00	16:20					
Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Acenaphthylene	ND	0.330	H		"	"	"	Ħ	
Aniline	ND	0.330	п.	"	**	**	H	n	
Anthracene	ND	0.330	11	"	ir	"	u	n	
Benzoic Acid	ND	1.00	H	n	**	11	**	u	
Benzo (a) anthracene	ND	0.330	n	u	**	"	"	н	
Benzo (b) fluoranthene	ND	0.330	*1	**	n	n	lt.	n	
Benzo (k) fluoranthene	ND	0.330	н	**	"	u	u	tr	
Benzo (ghi) perylene	ND	0.330	IT	11	77	ti	**	**	
Benzo (a) pyrene	ND	0.330	n	"	H	n	H	"	
Benzyl alcohol	ND	0.330	11	*1	m	H	n	n	
Bis(2-chloroethoxy)methane	ND	0.330	n	11	n	**	79	n	
Pie/?-chloroethyl)ether	ND	0.330	11	ti	**	**	77	n	
-chloroisopropyl)ether	ND	0.330	n	**	н	Ħ	11	n	
ethylhexyl)phthalate	ND	0.330	н	*1	17	u	11	n	
4-Bromophenyl phenyl ether	, ND	0.330	•	11	Ħ	11	11	11	
Butyl benzyl phthalate	ND	0.330	U	ti	**	н	n	и	
Carbazole	ND	0.330	11	**		D	n	n	
4-Chloroaniline	ND	0.500	If	11	n	**	n	**	
2-Chloronaphthalene	ND	0.330	U	n	**	н	н	n	
4-Chloro-3-methylphenol	ND	0.330	н	**	*	Ħ	P	u	
2-Chlorophenol	ND	0.330	n	**	Ħ	н	н	н	
4-Chlorophenyl phenyl ether	ND	0.330	n	н	**	"	"	н	
Chrysene	ND	0.330	n	**	n	. "	**	n	
Dibenz (a,h) anthracene	ND	0.330	n	n	**	**	n	n	
Dibenzofuran	ND	0.330	11	U	14	17	•	н	
Di-n-butyl phthalate	ND	0.330	- u	,,	11		**	н	
1,3-Dichlorobenzene	ND	0.330	Ħ	n	h	"	н	**	
1,4-Dichlorobenzene	ND	0.330	н	н	11	"	n	н	
1,2-Dichlorobenzene	ND	0.330	lT .	17	**	n	n	"	
3,3'-Dichlorobenzidine	ND	5.00	n.	n	н	U	ii .	n	
2,4-Dichlorophenol	ND	0.330	**	**	IT	n	н	ti	
Diethyl phthalate	ND	0.330	h	н	"	n	n	n	
2,4-Dimethylphenol	ND	0.330	n	n	н	n	n	n	
Dimethyl phthalate	ND	0.330	11	"	н	n	11	**	
4,6-Dinitro-2-methylphenol	ND	0.500	n	н	11	n	n	n	
2,4-Dinitrophenol	ND	0.500	H*	n	н	n	n	n	
2,4-Dinitrophenor	ND	0.500	n	11		11	11	u	
2,4-Dinitrototuene	ND	0.500							

1 Creek Analytical - Bothell

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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

		eporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-10 (B0K0613-09) Soil	Sampled: 11/22/00 10:02	2 Receiv	ed: 11/22/00	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	n	"	11	**	"	11	
Fluoranthene	ND	0.330	*1	Ħ	н	*1	n	**	
Fluorene	ND	0.330	"	11	n	lt .	**	H	
Hexachlorobenzene	ND	0.330	H	n	n	**	**	н	
Hexachlorobutadiene	. ND	0.330	n	n	11	#		**	
Hexachlorocyclopentadiene	ND	0.500	*1	*	P	11	п	n	
Hexachloroethane	ND	0.330	11	n	н	n	n	ıı	
Indeno (1,2,3-cd) pyrene	ND	0.330	n	u	11	**	n	•1	
Isophorone	ND	0.330	n	u	n	h	n	17	
2-Methylnaphthalene	ND	0.330	Ħ	***	n	IT	n	n	
2-Methylphenol	ND	0.330	TI	11	Ħ	n	71	11	
3 & 4-Methylphenol	ND	0.330	n	n		**	**	11	,,,,,,,
Naphthalene	ND	0.330	ıı	ti	**	17	"	19	
2-Nitroaniline	ND	0.500	n	Ħ	n	"	n	Ħ	`~
3-Nitroaniline	ND	0.500	۳.	11	"	n ·	н	n	
4-Nitroaniline	ND	0.500	Ħ	n	*1	*1	**	Ħ	
Nitrobenzene	ND	0.330	**	"	**	н		P*	
2-Nitrophenol	ND	0.330	b	**	'n	11	n	H	
4-Nitrophenol	ND	0.500	Ħ	**	11	"	**	Ħ	
N-Nitrosodiphenylamine	ND	0.330	*1	U	by	n	*	77	
N-Nitrosodi-n-propylamine	ND	0.330	h	N	H	н	**	Pi	
Pentachlorophenol	ND	0.500	n	**	11	"	,	"	
Phenanthrene	ND	0.330	n	**	n	**	**	n	
Phenol	ND	0.330	"	n	11	н	**	'n	
Pyrene	ND	0.330	**	**	r	h	H	n	
1,2,4-Trichlorobenzene	ND	0.330	n	**	Ħ	n	н	n	
2,4,5-Trichlorophenol	ND	0.330	n	n	n	**	** .	n	
2,4,6-Trichlorophenol	NDND	0.330	н	n				,	
Surrogate: 2-FP	,	10-123			"	"	"	"	
Surrogate: Phenol-d6	, = 1 = 1	10-130			"	"	"	"	
Surrogate: 2,4,6-TBP	106 %	10-131			"	"	"	"	
•								4-	

10-126

24-125

45-135

91.7%

103 %

118%

North Creek Analytical - Bothell

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Rroject Manager

Surrogate: Nitrobenzene-d5

Surrogate: p-Terphenyl-d14

Surrogate: 2-FBP



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541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method.	Note
SB-32-15 (B0K0613-10) Soil	Sampled: 11/22/00 10:10	Receiv	ed: 11/22/00	16:20					
Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Acenaphthylene	ND	0.330	11	17	11	II	t r	11	
Aniline	ND	0.330	11	U	u	17	If	11	
Anthracene	ND	0.330	n	н	**	17	n	Ħ	
Benzoic Acid	ND	1.00	11	**	н	D	u	n	
Benzo (a) anthracene	ND	0.330	17	11	**	11	**	н	
Benzo (b) fluoranthene	ND	0.330	n	**	*	**	n	tr	
Benzo (k) fluoranthene	ND	0.330	**	**	**	"	n	n	
Benzo (ghi) perylene	ND	0.330	, H	n	••	**	"	11	
Benzo (a) pyrene	ND	0.330	77	n -	n	"		n	
Benzyl alcohol	ND	0.330	n	n	"	77	19	n	
Bis(2-chloroethoxy)methane	ND	0.330	11	n	n	17	· ·	n	
Bis(2-chloroethyl)ether	ND	0.330	n	ņ	u	n	11	19	
2-chloroisopropyl)ether	ND	0.330	U	**	**	n	**	n	
bis(2-ethylhexyl)phthalate	ND	0.330	ii .	n	11	97	**	n	
4-Bromophenyl phenyl ether	ND	0.330	н	u	n	**	n	n	
Butyl benzyl phthalate	ND	0.330	**	n	n	11	n	**	
Carbazole	ND	0.330	11	n	n	**	"	**	
4-Chloroaniline	ND	0.500	**	11	11	n	"	n	
2-Chloronaphthalene	ND	0.330	n	"	U	H	11	h	
4-Chloro-3-methylphenol	ND	0.330	n	11	79	н	11	н	
2-Chlorophenol	ND	0.330	**	*1	н	**	н	u.	
4-Chlorophenyl phenyl ether	ND	0.330	ħ	*1	n	н	,,	ti .	
Chrysene	ND	0.330	н	n	11	н	**	11	
Dibenz (a,h) anthracene	ND	0.330	r	n	l7	н	u	n	
Dibenzofuran	ND	0.330	n	n	n	н	11	н	
Di-n-butyl phthalate	ND	0.330		n	u	н		н	
1,3-Dichlorobenzene	ND	0.330		17	n	"	Ħ	п	
1,4-Dichlorobenzene	ND	0.330		n	11	u	н	U	
1,2-Dichlorobenzene	ND	0.330	n	n	11	11	н	n .	
3,3'-Dichlorobenzidine	ND	5.00	Ħ	**	Ħ	11	n	**	
2,4-Dichlorophenol	ND	0.330	n	11	н	**	11	**	
Diethyl phthalate	ND	0.330	Ħ	n	11	11	ıı	**	
2,4-Dimethylphenol	ND	0.330	"	н	n	п	11	н	
	ND ND	0.330	n	n	H	11	11	,	
Dimethyl phthalate		0.500		"	**	II	n	11	
4,6-Dinitro-2-methylphenol	ND		"	"	U		n	"	
2,4-Dinitrophenol	ND	0.500	"	н	 H	"	"		
2,4-Dinitrotoluene	ND	0.500	**	"		•	•	**	

h Creek Analytical - Bothell

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Gill, Project Manager

Environmental Laboratory Network Page 77 of 132



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C

North Creek Analytical - Bothell

Analyte	Result	porting Limit	Ţ	Jnits	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-15 (B0K0613-10) Soil	Sampled: 11/22/00 10:10	Receiv	ed:, 1	1/22/0	0 16:20					
2,6-Dinitrotoluene	ND	0.500	mg	/kg dry	I	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	i	п	11	"	н	n	n	
Fluoranthene	ND	0.330		п	11	**	11	"	11	
Fluorene	ND	0.330		n		н	**	n	**	
Hexachlorobenzene	ND	0.330		**	Ħ	**	U	•	"	
Hexachlorobutadiene	ND	0.330		"	**	11	п	**	**	
Hexachlorocyclopentadiene	ND	0.500	!	**	n	,,	**	Ħ	TT .	
Hexachloroethane	ND	0.330		n	Ħ	n	**	н	**	
Indeno (1,2,3-cd) pyrene	ND	0.330	1	11	11	**	**	n	Ħ	
Isophorone	ND	0.330	'	11	n	17	**	11	n	
2-Methylnaphthalene	ND	0.330		D	"	ır	17	n	**	
2-Methylphenol	ND	0.330	İ	н	*1	н	n	n	М	
3 & 4-Methylphenol	ND	0.330		n	H	n	17	**	b	· · · · ·
Naphthalene	ND	0.330	i	17	"	n	17	"	11	(
2-Nitroaniline	ND	0.500	i	n	**	"	11	и	и	*~ ~
3-Nitroaniline	ND	0.500	1	*1	H	11	n	77	n	
4-Nitroaniline	ND	0.500	1	17	ŧi	11	11	Ħ	11	
Nitrobenzene	ND	0.330		**	**	н	**	n	n	
2-Nitrophenol	ND	0.330		n .	n	ti	и	**	n	
4-Nitrophenol	ND	0.500		Ħ	n	11	n	#	н	
N-Nitrosodiphenylamine	ND	0.330		n	11	Ħ	11	п	*	
N-Nitrosodi-n-propylamine	ND	0.330	1	Ħ	'n	**	H	**	ii.	
Pentachlorophenol	ND .	0.500		н	n	"	**	17	n	
Phenanthrene	ND	0.330	ì	h	. "	, u	**	n	n	
Phenol	ND	0.330		**	n	**	n	**	n	
Pyrene	ND	0.330		Ħ	n	,	n	17	11	
1,2,4-Trichlorobenzene	ND	0.330		h	n	II .	"	n	11	
2,4,5-Trichlorophenol	ND	0.330		n	Ħ	ıı	n	н	н	•
2,4,6-Trichlorophenol	ND	0.330		11	**	н	l†	11	н	
Surrogate: 2-FP	79.9 %	0-123				"		"	n	
Surrogate: Phenol-d6		0-130	1			"	"	"	"	
Surrogate: 2,4,6-TBP		0-131				"	"	"	"	
Surrogate: Nitrobenzene-d5		0-126				n	"	"	"	
Surrogate: 2-FBP	*	4-125				"	"	"	"	
Surrogate: p-Terphenyl-d14		5-135				,,	"	**	n	
Surrogaie: p-1 erpnenyi-a14	115 /0									

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

<u> </u>		porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-20 (B0K0613-11) Soil	Sampled: 11/22/00 10:15	Receiv	ed: 11/22/00	16:20			<u> </u>		
Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Acenaphthylene	ND	0.330	tr	11	*1	**	н	n	
Aniline	ND	0.330	**	17	h		n	11	
Anthracene	ND	0.330	. "	н	**	n	"	•	
Benzoic Acid	ND	1.00	11	н	n	n	n	**	
Benzo (a) anthracene	ND	0.330	n	"	"	II .	n	н	
Benzo (b) fluoranthene	ND	0.330	n	**	n	Ħ	"	**	
Benzo (k) fluoranthene	ND	0.330	71	n	**	н	h	n	
Benzo (ghi) perylene	ND	0.330	17	n	11	ŋ	11	tr	
Benzo (a) pyrene	ND	0.330	u	н	n	**	11	**	
Benzyl alcohol	ND	0.330	n	"	Ħ	п	"	n	
Bis(2-chloroethoxy)methane	ND	0.330	by	11	n	11	11	"	
: ":-(?-chloroethyl)ether	ND	0.330	11	n	n	Ħ	"	11	
2-chloroisopropyl)ether	ND	0.330	н	n	*1	11	n	19	
ادريز2-ethylhexyl)phthalate	ND	0.330	ir .	n	n	**	n	n	
4-Bromophenyl phenyl ether	ND	0.330	**	н	n	17	н	н	
Butyl benzyl phthalate	ND	0.330	17		*1	U	17	n	
Carbazole	ND	0.330	**	**	17	ti	*	Ħ	
4-Chloroaniline	ND	0.500	n	"	"	n	ir.	н	
2-Chloronaphthalene	ND	0.330	"	**	n	n	**	n	
4-Chloro-3-methylphenol	ND	0.330	H	H	u	in	n	n	
2-Chlorophenol	ND	0.330	n	**	n	**	п	и ,	
4-Chlorophenyl phenyl ether	ND	0.330	n	'n	11	Ħ	н	11	
Chrysene	ND	0.330	*	Ħ	**	11	n	н	
Dibenz (a,h) anthracene	ND	0.330	H	n	n	n	11	u	
Dibenzofuran	ND	0.330	n	n	*	h	"	v	
Di-n-butyl phthalate	ND	0.330	10	n	h	11	n	D	
1,3-Dichlorobenzene	ND	0.330	11	Ħ	**	h	н	Ħ	
1,4-Dichlorobenzene	ND	0.330	"	•	71	Ħ	n	17	
1,2-Dichlorobenzene	ND	0.330	n	**		*1	11	u	
3,3'-Dichlorobenzidine	ND	5.00	11	n	11	h	н	n	
2,4-Dichlorophenol	ND	0.330	11	u	n	n	н	H	
Diethyl phthalate	ND	0.330	11	n	***	н	**	71	
2,4-Dimethylphenol	ND	0.330	r	n	n	n	n	n	
Dimethyl phthalate	ND	0.330	n	н	n	n	n	n	
4,6-Dinitro-2-methylphenol	ND	0.500	н	n	**	,,	11	11	
2,4-Dinitrophenol	ND	0.500	n	11	n	n	B	n	
· ·	ND	0.500	11	н	17	н	U	n	
2,4-Dinitrotoluene	ND	0.500							

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-20 (B0K0613-11) Soil	Sampled: 11/22/00 10:15	Receiv	ed:¦11/22/00	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	, "	**	n	n	17	**	
Fluoranthene	ND	0.330	"	"	n	71	"	n	
Fluorene	ND	0.330		n	**	n	71	п	
Hexachlorobenzene	ND	0.330	"	H	**	11	"	"	
Hexachlorobutadiene	ND	0.330	**	17	"	**		P	
Hexachlorocyclopentadiene	ND	0.500	h	**	ir	. "	n	n	
Hexachloroethane	ND	0.330	1 "	n	n	H	н	11	
Indeno (1,2,3-cd) pyrene	ND	0.330	1 11	н	#1	11	ir.	H	
Isophorone	ND	0.330	ni	77	11	**	"	ь	
2-Methylnaphthalene	ND	0.330	19	n	n	"	**	n	
2-Methylphenol	ND	0.330	"	H	n	H	**	"	
3 & 4-Methylphenol	ND	0.330	i n	•	n	**	n	n	y
Naphthalene	ND	0.330	' #	**	Ħ	Ħ	n	п	1
2-Nitroaniline	ND	0.500	i n	11	n	н	n	н	`'
3-Nitroaniline	ND	0.500	n	· ·	*1	"	n	91	,
4-Nitroaniline	ND	0.500	n	10	**	**	"		
Nitrobenzene	ND	0.330	n	n	n	11	n		
2-Nitrophenol	ND	0.330	1 "	n	•	n	11	**	
4-Nitrophenol	ND	0.500	i h	n	н	n	H	**	
N-Nitrosodiphenylamine	ND	0.330	, u	**	n	n		*	
N-Nitrosodi-n-propylamine	ND	0.330	. "	**	n	11	"	н	
Pentachlorophenol	ND	0.500	"	17	11	H	н	n	
Phenanthrene	ND	0.330	n	H	11	n	n	l7	
Phenol	ND	0.330	n	**	n	n	*	п	
Pyrene	ND	0.330	н	11	17	n	"	**	
1,2,4-Trichlorobenzene	ND	0.330	1 11	11	n	n	PT	11	
2,4,5-Trichlorophenol	ND	0.330	n	n	n	n	**	n	
2,4,6-Trichlorophenol	ND	0.330	II .	II.	*1	н	Ħ	n	
Surrogate: 2-FP	70.5 % 1	0-123			"	"	"	"	
Surrogate: Phenol-d6		0-130	•		"	"	"	"	
Surrogate: 2,4,6-TBP		0-131			,,	"	u	**	
•		0-126			,,	"	n	**	
Surrogate: Nitrobenzene-d5	,	4-125			,,	٠,,	"	n	
Surrogate: 2-FBP		5-135			,,	"	"	"	
Surrogate: p-Terphenyl-d14	123 70 4	J-1JJ	4						

North Creek Analytical - Bothell

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Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution-	Batch	Prepared	Analyzed	Method	Note
SB-32-25 (B0K0613-12) Soil	Sampled: 11/22/00 10:20		ed: 11/22/00	16:20					
Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Acenaphthylene	ND	0.330	11	Į1		10	H	n	
Aniline	ND	0.330	n	H	. 10	ti	н	н	
Anthracene	ND	0.330	n	ti	Ħ	r	"	D.	
Benzoic Acid	ND	1.00	h	н	*	**	"	"	
Benzo (a) anthracene	ND	0.330	n	n	**	1)	"		
Benzo (b) fluoranthene	ND	0.330	**	n	11	**	19	· "	
Benzo (k) fluoranthene	ND	0.330	71	"	17	**	n	ħ	
Benzo (ghi) perylene	ND	0.330	"	11	n	r	n	h	
Benzo (a) pyrene	ND	0.330	n	71	n	n	11	n	
Benzyl alcohol	ND	0.330	H	11	"	"	11	U	
Bis(2-chloroethoxy)methane	ND	0.330	tı	n	"	n	н	11	
ਾੇਰ-?-chloroethyl)ether	ND	0.330	"	**	b	**	н	**	
?-chloroisopropyl)ether	ND	0.330	11	17	n	**		n	
ارد. بر2-ethylhexyl)phthalate	ND	0.330	n	n	Ħ	н	ч	n	
4-Bromophenyl phenyl ether	ND	0.330	h	n	11	11	71	n	
Butyl benzyl phthalate	ND	0.330	n .	n	н	n	н	u	
Carbazole	ND	0.330	ti	**	H	n	•	ti	
4-Chloroaniline	ND	0.500	n	17	n	"	n	n	
2-Chloronaphthalene	ND	0.330	n	**		11	11	n	
4-Chloro-3-methylphenol	ND	0.330	11	11	11	n	H	n	
2-Chlorophenol	ND	0.330	Ħ	TI	н	n	u	n	
4-Chlorophenyl phenyl ether	ND	0.330	*1	P		*1	11	11	
Chrysene	ŅD	0.330	H	ı,	l7	**	n	n	
Dibenz (a,h) anthracene	ND	0.330	"		n	h	11	"	
Dibenzofuran	ND	0.330	"	п	10	n	н	17	
Di-n-butyl phthalate	ND	0.330	н	u	**	ti	н	11	
1,3-Dichlorobenzene	ND	0.330	**	**		11	n	11	
1,4-Dichlorobenzene	ND	0.330	**	"	н	11	n	11	
1,2-Dichlorobenzene	ND	0.330	Ħ	н	17	n	11	Ħ	
3,3'-Dichlorobenzidine	ND	5.00	n	н	n	н	**	n .	
2,4-Dichlorophenol	ND	0.330	и	ıı	н	**	п	n	
Diethyl phthalate	ND	0.330	n	11	n	n	н	n	
2,4-Dimethylphenol	ND	0.330	"	v	**	. ′ "	n	u	
Dimethyl phthalate	ND	0.330	**	**	**	Ħ	71	n	•
4,6-Dinitro-2-methylphenol	ND	0.500	н	11	н	н	n	n	
2,4-Dinitrophenol	ND	0.500	11	n	н	ır	n	n	
2,4-Dinitrotoluene	ND ND	0.500	,,	,,	17	17		h	

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C

North Creek Analytical - Bothell

		porting		D11 -:	D-4 1	n :	A 1	Mad - 1	N1-4-
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-25 (B0K0613-12) Soil	Sampled: 11/22/00 10:20	Receive	ed: 11/22/00	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	- -
Di-n-octyl phthalate	ND	0.330	17	n	11	н	-	11	
Fluoranthene	ND	0.330	j i	H	"	u	11	н	
Fluorene	ND	0.330	r	Ħ	u	H	n	н	
Hexachlorobenzene	ND	0.330	**	If	**	n	n	*1	
Hexachlorobutadiene	ND	0.330	"	, н	n	n	Ħ	н	
Hexachlorocyclopentadiene	ND	0.500	n	n	n	n	"	н	
Hexachloroethane	ND	0.330	n	"	Ħ	11,	b	н	
Indeno (1,2,3-cd) pyrene	ND	0.330	u	"	н	н	n	в	
Isophorone	ND	0.330	11	n	#	u	ti	**	
2-Methylnaphthalene	ND	0.330	**	n	"	п	11	11	
2-Methylphenol	ND	0.330	n	n	h	**	n	"	
3 & 4-Methylphenol	- ND	0.330		**	n	**	n	"	7
Naphthalene	ND	0.330	u	**	11	н	Ħ	Ħ	(
2-Nitroaniline	ND	0.500	**	n	17	n	н	н	`'
3-Nitroaniline	ND	0.500	"	"	H	"	Ħ	D	
4-Nitroaniline	ND	0.500	**	•	н	H	н	n	
Nitrobenzene	ND	0.330	"	n	н	n	n	H	
2-Nitrophenol	ND	0.330	n	n	Ħ	н	Ħ	n	
4-Nitrophenol	ND	0.500	•	n	*	H	n	Ħ	
N-Nitrosodiphenylamine	ND	0.330	n	H	u	ŧ	B	h	
N-Nitrosodi-n-propylamine	ND	0.330	Ħ	#1	н	н	11	n	
Pentachlorophenol	ND	0.500	n	11	n	n	" .	n	
Phenanthrene	ND	0.330	u	h	n	n	"	n	
Phenol	ND	0.330	п	n	'n	Ħ	n	n	
Pyrene	ND	0.330	11	"	11	п	11	n	
1,2,4-Trichlorobenzene	ND	0.330	n	Ħ	*1	н	n	91	
2,4,5-Trichlorophenol	ND	0.330	H	n	**	n	n	n	
2,4,6-Trichlorophenol	ND	0.330	IT	lT .	н		11	"	
Surrogate: 2-FP	66.2 % 10	0-123			"	"	"	,,	
Surrogate: Phenol-d6	85.4 % 10	0-130			"	"	"	n	
Surrogate: 2,4,6-TBP		0-131			"	"	"	*	
Surrogate: Nitrobenzene-d5		0-126			"	"	"	**	
Surrogate: 2-FBP	,	4-125			,,	"	"	"	
Surrogate: p-Terphenyl-d14	= = : : :	5-135			n	"	"	"	
our oguie. p-resphenys-ur4									

North Creek Analytical - Bothell

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I, Project Manager



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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

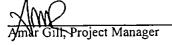
12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

-	·	R	eporting							
_	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
_	5B-33-2 (B0K0613-20) Soil	Sampled: 11/22/00 11:38	Receive	d: 11/22/00	16:20					
	Acenaphthene	ND	1.65	mg/kg dry	5	0L05025	12/05/00	12/06/00	EPA 8270C	
	Acenaphthylene	ND	1.65	**	n	**	n	n	n	
İ	Aniline	ND	1.65	и	n	H	"	,,	n	
	Anthracene	ND	1.65	"	11	n	"	11	n	
_	Benzoic Acid	ND	5.00	11	**	**	**	**	u	
1	Benzo (a) anthracene	ND	1.65	H	n	11	n	n	11	
٠ -	Benzo (b) fluoranthene	ND	1.65	n	U	11	Ħ	17	11	
	Benzo (k) fluoranthene	ND	1.65	11	"	n	ir .	н	н	
	Benzo (ghi) perylene	ND	1.65	11	n	n		н	n	
	Benzo (a) pyrene	ND	1.65	*	п	н	II.	н	н	
	Benzyl alcohol	ND	1.65	H	n	H	n	н	11	
	Bis(2-chloroethoxy)methane	ND	1.65	n	n	11	н	**	н	
	Di-(2-chloroethyl)ether	ND	1.65	H	**	π	19		n	
	-chloroisopropyl)ether	ND	1.65	ń	**	n	17	н	11	
	,ethylhexyl)phthalate	ND	1.65	*1	n	n	n	Ħ	n	
	4-Bromophenyl phenyl ether	ND	1.65	11	n	17	"	H	11	
	Butyl benzyl phthalate	ND	1.65	n	n	11	11		n	
	Carbazole	ND	1.65	n	n	11	n	11	ı n	
	4-Chloroaniline	ND	2.50	n	h >	"	n	н	"	
	2-Chloronaphthalene	ND	1.65	17	Ħ	17	**	n	11	
	4-Chloro-3-methylphenol	ND	1.65	n	w	ti	н	w	H	
	2-Chlorophenol	ND	1.65	n	**	n	n	**	н	
	4-Chlorophenyl phenyl ether	, ND	1.65	n	н	н	n	n	n	
	Chrysene	ND	1.65	11	19	н	*1	н	11	
	Dibenz (a,h) anthracene	ND	1.65	II .	b	17	н	"	ri	
	Dibenzofuran	ND	1.65	И	**	ŧi	H	"	n	
	Di-n-butyl phthalate	ND	1.65	и	**	н	"	11	n	
	1,3-Dichlorobenzene	ND	1.65	n	n	И	n	n	**	
	1,4-Dichlorobenzene	ND	1.65	n	17	11	n	t)	11	
	1,2-Dichlorobenzene	ND	1.65	11	17	n	n	n	11	
	3,3'-Dichlorobenzidine	ND	25.0	n	11	n	Ħ	n	11	
	2,4-Dichlorophenol	ND	1.65	n	n	11	**	11	17	
7 1	Diethyl phthalate	ND	1.65	**	11	n	n	н	b	
1	2,4-Dimethylphenol	ND	1.65	11	11	n	10	n	11	
	Dimethyl phthalate	ND	1.65	Ħ	u	•	H	0	H	
	4,6-Dinitro-2-methylphenol	ND	2.50	n	ti	11	n	**	11	
	2,4-Dinitrophenol	ND	2.50	11	*1	**	ir	n	n	
	2,4-Dinitrotoluene	ND	2.50	**	н	11	II .	n	D	
	2,4-Dinjuotoluene	ND	2.50							

h Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-2 (B0K0613-20) Soil	Sampled: 11/22/00 11:38	Received	d: 11/22/00	16:20					
2,6-Dinitrotoluene	ND	2.50	mg/kg dry	5	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	1.65	**	**		Ħ	H	H	
Fluoranthene	ND	1.65	Ħ	n	**	n	Ħ	"	
Fluorene	ND	1.65	11	n	11	11	ti	lt .	
Hexachlorobenzene	ND	1.65	II .	"	н	н	N	51	
Hexachlorobutadiene	ND	1.65	71	v	n	Ħ	b	н	
Hexachlorocyclopentadiene	ND	2.50	19	**	**	н	11	n	
Hexachloroethane	ND	1.65	H	n	н	**	n	n	
Indeno (1,2,3-cd) pyrene	ND	1.65	tr	**	Ħ	Ħ	n	71	
Isophorone	ND	1.65	Ħ	Ħ	11	**	H	n	
2-Methylnaphthalene	ND	1.65	*1	"	**	ir .	,	n	
2-Methylphenol	ND	1.65	ti	U	n	Ħ	**	n	
3 & 4-Methylphenol	ND	1.65	71	*1	**	n	Ħ	N	~ ,
Naphthalene	ND	1.65	ıı	*	h	**	11	Ħ	′
2-Nitroaniline	ND	2.50	n		n	и	11	**	 ′
3-Nitroaniline	ND	2.50	н	**	11	н	Ħ	n	
4-Nitroaniline	ND	2.50	n	n	11	n	17	н	
Nitrobenzene	ND	1.65	n	**	17	Ħ	. "	n	
2-Nitrophenol	ND	1.65	11	u	11	"	11	**	
4-Nitrophenol	ND	2.50	n	**	n	н	n	11	
N-Nitrosodiphenylamine	ND	1.65	11	u	n	ti .	n	n	
N-Nitrosodi-n-propylamine	ND .	1.65	ŧı	*1	PP .	н	**	н	
Pentachlorophenol	ND	2.50	"	н		**	n	**	
Phenanthrene	ND	1.65	н		**	ı	Ħ	n	
Phenol	ND	1.65	11	n	"	n	h	Ħ	
Pyrene	ND	1.65	n	n	**	11	71	II	
1,2,4-Trichlorobenzene	ND	1.65	n	11	n	n	17	n	
2,4,5-Trichlorophenol	ND	1.65	n	n	н	n	**	n	
2,4,6-Trichlorophenol	ND	1.65	n	n	11	11	p	m	
		10-123			"		"	"	
Surrogate: 2-FP	, , , , , ,	10-123 10-130			,,	"	"	"	
Surrogate: Phenol-d6		10-130 10-131			,,	"	n	"	
Surrogate: 2,4,6-TBP	20.00				,,	"	"	<i>u</i> ·	
Surrogate: Nitrobenzene-d5		10-126			"	"	n	21	
Surrogate: 2-FBP		24-125			,,	,,	"	17	
Surrogate: p-Terphenyl-d14	117%	45-135					•		

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

	R	eporting		-				-	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-5 (B0K0613-21) Soil	Sampled: 11/22/00 11:44	Receive	d: 11/22/00	16:20					
Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Acenaphthylene	ND	0.330	**	11	p	p	u	н	
Aniline	ND	0.330	Ħ	17		11	Ħ	n	
Anthracene	ND	0.330	n	и	H	Ħ	h	n	
Benzoic Acid	ND	1.00	tr	0	**	**	b	II .	
Benzo (a) anthracene	ND	0.330	n	**	h	п	ti	H	
Benzo (b) fluoranthene	ND	0.330	Ħ	Ħ	n	ıı	Ħ	**	
Benzo (k) fluoranthene	ND	0.330	H	H		m	**	n	
Benzo (ghi) perylene	ND	0.330	n	n	H	н	*1	n	
Benzo (a) pyrene	ND	0.330	n	"	n	H	н	n	
Benzyl alcohol	ND	0.330	n	"	**	n	h	n	
Bis(2-chloroethoxy)methane	ND	0.330	Ħ	11	**	**	,	n	
Bis(2-chloroethyl)ether	ND	0.330	"	n	"	"	"	D	
2-chloroisopropyl)ether	ND	0.330	**	н	11	"	**	*1	
2-ethylhexyl)phthalate	ND	0.330	n	n	n	n	**	n	
4-Bromophenyl phenyl ether	ND	0.330	11	n	Ħ	n	71	n	
Butyl benzyl phthalate	ND	0.330	n	n	**	n	**	n	
Carbazole	ND	0.330	in	11	**	*1	**	17	
4-Chloroaniline	ND	0.500	n	H	**	H	. "	n	
2-Chloronaphthalene	ND	0.330	11	n	n	n	**	n	
4-Chloro-3-methylphenol	· ND	0.330	ti	"	n	n	n		
2-Chlorophenol	ND	0.330	11	**	**	**	n	n	
4-Chlorophenyl phenyl ether	ND	0.330	l7	11	n	71	u	n	
Chrysene	ND	0.330	"	n	. п	D	n	**	•
Dibenz (a,h) anthracene	ND	0.330	n	17	n	b	tr.	n	
Dibenzofuran	ND	0.330	11	n	11	n	. "	n	
Di-n-butyl phthalate	ND	0.330	**		**	**	n	u	
1,3-Dichlorobenzene	ND	0.330	b	"	17	"	ю	17	
1,4-Dichlorobenzene	ND	0.330	"	n	11	n	n	l†	
1,2-Dichlorobenzene	ND	0.330	"	H	n		н	n	
3,3'-Dichlorobenzidine	ND	5.00	n	17	11	n	11	н	
2,4-Dichlorophenol	ND	0.330	n	n	**		11	H	
Diethyl phthalate	ND	0.330	n	u	11	n	н	u	
2,4-Dimethylphenol	ND	0.330	**	11	17	11	n	n	
Dimethyl phthalate	ND	0.330	*	n	19	77	ıı	"	
4,6-Dinitro-2-methylphenol	ND	0.500	"	11	"	n	11	17	
2,4-Dinitrophenol	ND	0.500	u	n	**	u	U	It	
2.4-Dinitrotoluene	ND	0.500	n	u	**	n	Ħ	11	
-, · 									

th Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network**



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-5 (B0K0613-21) Soil	Sampled: 11/22/00 11:44	Receive	d: 11/22/00	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	r	н	11	11	Ð	ts .	
Fluoranthene	ND	0.330	11	н	17	n	b	•	•
Fluorene	ND	0.330	Ħ	**		**	**	n	
Hexachlorobenzene	ND	0.330	n	**	**	H	•	•	
Hexachlorobutadiene	ND	0.330	ii .	"	*	n	P .	"	
Hexachlorocyclopentadiene	ND	0.500	n	н	"	"	**	n	
Hexachloroethane	ND	0.330	tt	**	н	н	•	n	
Indeno (1,2,3-cd) pyrene	ND	0.330	**	**	"	*		n	
Isophorone	ND	0.330	17	n	**	*1	Ħ	'n	
2-Methylnaphthalene	ND	0.330	H	n	**	**	н	11	
2-Methylphenol	ND	0.330	II	n	**	l7	H	•	
3 & 4-Methylphenol	ND	0.330	11	H	Ħ	v	н	n	,-
Naphthalene	ND	0.330	11	11	l†	n	n	n	, ,
2-Nitroaniline	ND ·	0.500	n	**	n	n	•	n	
3-Nitroaniline	ND	0.500	tı	н	**	**	n	п	
4-Nitroaniline	ND	0.500	17	п	tt	19	'n	n	
Nitrobenzene	ND	0.330	11		"	***	"	ħ	
2-Nitrophenol	ND	0.330	II .	***	и	n	n	"	<i>(</i>
4-Nitrophenol	ND	0.500	n	**	n	"	n	р	
N-Nitrosodiphenylamine	ND	0.330	tt	**	n	ti	n	,	
N-Nitrosodi-n-propylamine	ND	0.330	**	19	n	tr.	"	, 11	į
Pentachlorophenol	ND	0.500	**	n	11	n	n	**	i
Phenanthrene	ND	0.330	**	•	"	n	p	Ħ	
Phenol	ND	0.330	n	••	10	n	n	n	
Pyrene	ND	0.330		**	n	n	n	n	
1,2,4-Trichlorobenzene	ND	0.330	11	**	n	**	**	"	
2,4,5-Trichlorophenol	ND	0.330	n	"	"	**	Ħ	11	
2,4,6-Trichlorophenol	ND	0.330		**	n	**	11	"	
Surrogate: 2-FP	60.6 %	10-123			,,	"	"	"	
Surrogate: Phenol-d6	84.0 %	0-130			**	,,	"	н	'
Surrogate: 2,4,6-TBP	39.6 %	10-131			"	"	"	"	
Surrogate: Nitrobenzene-d5		0-126			"	"	,,	"	
Surrogate: 2-FBP		24-125			"	"	,,	,,	1
Surrogate: p-Terphenyl-d14		15-135			"	,,	"	"	
Jan. Oguic. p 1 ci pricingi ult									

North Creek Analytical - Bothell

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Project Manager



Portland

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541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

ز_		Ret	orting							
	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	SB-33-10 (B0K0613-22) Soil	Sampled: 11/22/00 11:50		ed: 11/22/00	16:20				<u>-</u>	
	Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
ì	Acenaphthylene	ND	0.330	п	**	11	U	Ħ	п	
1	Aniline	ND	0.330	n	31	71	n	n		
	Anthracene	ND	0.330	H	n	"	"	n	n	
	Benzoic Acid	ND	1.00	n	и	n	11	11	n	
,	Benzo (a) anthracene	ND	0.330	ir	n	p	**	11	U	
-	Benzo (b) fluoranthene	ND	0.330	n	п	11	**	**	**	
	Benzo (k) fluoranthene	ND	0.330	ıı	n	n	11	**	n	
í	Benzo (ghi) perylene	ND	0.330	"	li*	19	11	"	н	
١	Benzo (a) pyrene	ND	0.330	u	n	n	h	"	н	
,	Benzyl alcohol	ND	0.330	II .	н	n	и	"	11	
	Bis(2-chloroethoxy)methane	ND	0.330	11	n	Þ	l7	н	n	
	Bis(2-chloroethyl)ether	ND	0.330	11	H	11	It	н	n	
	2-chloroisopropyl)ether	ND	0.330	19	IT	n	n	h	Ħ	
	2-ethylhexyl)phthalate	ND	0.330	и	17	b	n ·	H	Ħ	
- ,	4-Bromophenyl phenyl ether	ND	0.330	n	"	*1	n	ı	Ħ	
i	Butyl benzyl phthalate	ND	0.330	n	H	Ħ	11	b	Ħ	
	Carbazole	ND	0.330		17	n	tı	b	**	
	4-Chloroaniline	ND	0.500	ı	Ħ	H	n		н	
	2-Chloronaphthalene	ND	0.330	17	Ħ	H	*	н	н	
-	4-Chloro-3-methylphenol	ND	0.330	n	ŧi	н	n	n	Ħ	
	2-Chlorophenol	ND	0.330	n	н	17		н	n	
1	4-Chlorophenyl phenyl ether	ND	0.330	"	н	n	'n	D	n	
ì	Chrysene	ND	0.330	n	Ħ	n	Ħ	I7	77	
	Dibenz (a,h) anthracene	ND	0.330	n	n	17	ti	n	**	
-	Dibenzofuran	ND	0.330	н	n	n	**	D	11	
ţ	Di-n-butyl phthalate	ND	0.330	n	н	п	n	11	n	
-	1,3-Dichlorobenzene	ND	0.330	n	Ħ	11	h	n	n	
-,	1,4-Dichlorobenzene	ND	0.330	H	n	n	"	"	n	
i	1,2-Dichlorobenzene	ND	0.330	n	и	п	17	n	Ħ	
. !	3,3'-Dichlorobenzidine	ND	5.00	н	n	н	tr .	n	ıı	
	2,4-Dichlorophenol	ND	0.330	17	lt .	r	11	"	11	
Ì	Diethyl phthalate	ND	0.330	"	11	n	Ħ	n	ii	
ł	2,4-Dimethylphenol	ND	0.330	11	n	ıı	II .	н	11	
	Dimethyl phthalate	ND	0.330	u	U	"	n	H	n	
7	4,6-Dinitro-2-methylphenol	ND	0.500	11	"	"	11	n	n	
	2,4-Dinitrophenol	ND	0.500	n	Ħ	*1	11	11	n	
·	2,4-Dinitrotoluene	ND	0.500	n	н	n	"	II.	11	
	•									

th Creek Analytical - Bothell

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Bend

Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-10 (B0K0613-22) Soil	Sampled: 11/22/00 11:50	Receiv	ed: 11/22/00	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	n	n	n	н	Ħ	Ħ	í
Fluoranthene	ND	0.330	*		**	n	**	Ħ	1
Fluorene	ND	0.330	н	17	и	11	*1	н	
Hexachlorobenzene	ND	0.330	**	11	lt.		þ	**	
Hexachlorobutadiene	ND	0.330	11	n	**	**	"	n	
Hexachlorocyclopentadiene	ND	0.500	ŧŧ	11	17	н	**	n	
Hexachloroethane	. ND	0.330	n	"	и	10	**	,	
Indeno (1,2,3-cd) pyrene	ND	0.330	n	H	n	D.		11	
Isophorone	ND	0.330	n	н	#	17	н	н	1
2-Methylnaphthalene	ND	0.330	n	н	11	H	**	n	
2-Methylphenol	ND	0.330	"	17	n	n	"	n	ĺ
3 & 4-Methylphenol	ND	0.330	H	11	11	n	n	n	, » - ~ _\
Naphthalene	ND	0.330	n	n	**	n	**	п	()
2-Nitroaniline	ND	0.500	H	н	*1	n	**	n	` '
3-Nitroaniline	ND	0.500	H	**	n	n	17	Ħ	1
4-Nitroaniline	ND	0.500	11	n	n	n	n	n	
Nitrobenzene	ND	0.330	11	"	Ħ		Ħ	n	
2-Nitrophenol	ND	0.330	11	u	Ħ	n	**	U	1
4-Nitrophenol	ND	0.500	n	Ħ		**	•	n	ļ
N-Nitrosodiphenylamine	ND	0.330	"	Ħ	n	н	11	11	
N-Nitrosodi-n-propylamine	ND	0.330	tı	11	"	n	11	h	
Pentachlorophenol	ND	0.500	**		**	**	17	**	1
Phenanthrene	ND	0.330	n	٠, "	н .	n	**	n	
Phenol	ND	0.330	н	"	H	h	"	h	
Pyrene	ND	0.330	H	**	11	Ħ		n	
1,2,4-Trichlorobenzene	ND	0.330	H	n	**	n	**	n	
2,4,5-Trichlorophenol	ND	0.330	**	n	н	Ħ	11	"	
2,4,6-Trichlorophenol	ND	0.330	17	"	n	n	n		
Surrogate: 2-FP	84.8 %	0-123			"	"	"	"	1
Surrogate: Phenol-d6	88.0 %	0-130			"	"	n	**	-
Surrogate: 2,4,6-TBP	91.1 %	0-131			"	"	"	"	
Surrogate: Nitrobenzene-d5		0-126			"	"	"	"	1
Surrogate: 2-FBP		4-125			"	"	n	"	;
Surrogate: p-Terphenyl-d14		5-135			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



 Seattle
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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

	Re	porting			-				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-33-15 (B0K0613-23) Soil	Sampled: 11/22/00 11:55	Receiv	ed: 11/22/00	16:20		-			
Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Acenaphthylene	ND	0.330	n	ıı	n	II.	IT	н	
Aniline	ND	0.330		11	Ħ	11	**	n	
Anthracene	ND	0.330	н	11	*	11	"	n	
Benzoic Acid	ND	1.00	**	11	rr .	W	"	11	
Benzo (a) anthracene	ND	0.330	n	n	**	n	н	n	
Benzo (b) fluoranthene	ND	0.330		н	u	h	n	n	
Benzo (k) fluoranthene	ND	0.330	n	17	11	II .		H	
Benzo (ghi) perylene	ND	0.330	n.	11	11	tt	u	b	
Benzo (a) pyrene	ND	0.330	n	11	n	II .	"	tt	
Benzyl alcohol	ND	0.330	11	11	н	17	9	n	
Bis(2-chloroethoxy)methane	ND	0.330	**	11	n	11	**	**	
Pi-/2-chloroethyl)ether	ND	0.330	н	**	n	н	li .	11	
2-chloroisopropyl)ether	ND	0.330	n	n	ıı	H	н	n	
2-ethylhexyl)phthalate	ND	0.330	n	n	U	*	**	11	
4-Bromophenyl phenyl ether	ND	0.330	n		**	n	n	n	
Butyl benzyl phthalate	ND	0.330	11	n	н	**	Ħ	**	
Carbazole	ND	0.330	11	11	n	n	•	**	
4-Chloroaniline	ND	0.500	n	11	h	"	n	h	
2-Chloronaphthalene	ND	0.330	n	n	Ħ	и	H	H.	
4-Chloro-3-methylphenol	ND	0.330	t)	11	Ħ	17	U	u	
2-Chlorophenol	ND	0.330	11	11	n		11	11	
4-Chlorophenyl phenyl ether	ND	0.330	н	n	n	11	н	"	
Chrysene	ND	0.330	h	n	'n	n	n	•	
Dibenz (a,h) anthracene	ND	0.330	n	Ħ	n	. "	n		
Dibenzofuran	ND	0.330	n	n	U	n	11	v	
Di-n-butyl phthalate	ND	0.330	11	11	**	n	**	•	
1,3-Dichlorobenzene	ND	0.330	11	"	#1	n	11	н	
1,4-Dichlorobenzene	ND	0.330	n	11	Ħ	n	n	n	
1,2-Dichlorobenzene	ND	0.330	н	n	n	ti	n	tr .	
3,3'-Dichlorobenzidine	ND	5.00	n	11	n	Ħ	u	11	
2,4-Dichlorophenol	ND	0.330	n	n	**	n	U	"	
Diethyl phthalate	ND	0.330	11	и		н	1)	11	
2,4-Dimethylphenol	ND	0.330	n	n	11	11	n	n	
Dimethyl phthalate	ND	0.330	*	u	н	n.	n	n	
4,6-Dinitro-2-methylphenol	ND	0.500	n	11	Ħ	u	ıı	n	
2,4-Dinitrophenol	ND	0.500	l7	n	n	11	и	n	
2,4-Dinitrotoluene	ND	0.500	U	n	17	п	"	11	
2, . 2	2	2.2.2							

th Creek Analytical - Bothell

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Spokane

Portland

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-15 (B0K0613-23) Soil	Sampled: 11/22/00 11:55	Receiv	ed: 11/22/00	16:20	<u> </u>				
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	n	н	n	tr .	11	n	,
Fluoranthene	ND	0.330	n	Ħ	tr	n	11	n	!
Fluorene	ND	0.330	n	H	n	"		u	
Hexachlorobenzene	ND	0.330	n	**	n	**	11	11	
Hexachlorobutadiene	ND	0.330	n n	17	11	**	**	71	1
Hexachlorocyclopentadiene	ND	0.500	**	11	**	17	17	11	1
Hexachloroethane	ND	0.330	**	h	11	n	17	n	
Indeno (1,2,3-cd) pyrene	ND	0.330	n	n	IT	n	n	n	1
Isophorone	ND	0.330	, ,	**	ır	U	n	ir	1
2-Methylnaphthalene	ND	0.330	n	11	n	u	19	n	,
2-Methylphenol	ND	0.330	17	н	n	u	**	Ħ	
3 & 4-Methylphenol	ND	0.330	n	n	н		11	n	•
Naphthalene	ND	0.330	n	**	n	"	**	11	
2-Nitroaniline	ND	0.500	n	"	n	**	n	11	
3-Nitroaniline	ND	0.500	n	**		r	h	n	i
4-Nitroaniline	ND	0.500	n	**	**	n	,,	,	:
Nitrobenzene	ND	0.330	u	**	10	19	•	**	
2-Nitrophenol	ND	0.330	**	b	n	n	H	"	1
4-Nitrophenol	ND	0.500	11	n	*	11	*1	n	į
N-Nitrosodiphenylamine	ND	0.330	n	n	n	ti .	11	17	•
N-Nitrosodi-n-propylamine	ND	0.330	н	н	n	*1	11	17	
Pentachlorophenol	ND	0.500	11	*	11	h	11	н	·
Phenanthrene	ND	0.330	n	n		**	**	п	}
Phenol	ND	0.330	n	**	n	11	"	н	
Pyrene	ND	0.330	n	н	u	n	**	n	1
1,2,4-Trichlorobenzene	ND	0.330	11	н	H	II .	п	н	1
2,4,5-Trichlorophenol	ND	0.330	11	11	n	n	11	Ħ	,
2,4,6-Trichlorophenol	ND	0.330	n	Ħ	n	n	h	Ħ	1
Surrogate: 2-FP	80.1 % 1	0-123			"	- "	"	п	
Surrogate: Phenol-d6	88.3 % 1	0-130			"	,,	"	"	. i
Surrogate: 2,4,6-TBP		0-131			**	,,	"	"	
Surrogate: Nitrobenzene-d5		0-126			"	**	"	"	
Surrogate: 2-FBP		4-125			"	"	,,	"	
Surrogate: p-Terphenyl-d14		5-135			"	"	"	*	
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North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

j		Re	Reporting							
	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	SB-33-20 (B0K0613-24) Soil	Sampled: 11/22/00 12:00	Receiv	ed: 11/22/00	16:20					
	Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
	Acenaphthylene	ND	0.330	n	n	11	11	н	n	
	Aniline	ND	0.330	n	n	*	i)	h	u	
	Anthracene	ND	0.330	U	"		ir	11	ts .	
	Benzoic Acid	ND	1.00	71	u	8	n	11	"	
į	Benzo (a) anthracene	ND	0.330	н	н	17	*	11	**	
	Benzo (b) fluoranthene	ND	0.330	п	н	n	11	**	n	
	Benzo (k) fluoranthene	ND	0.330	n	**	n	n	"	11	
:	Benzo (ghi) perylene	ND	0.330	19	n	H	#	n	11	
į	Benzo (a) pyrene	ND	0.330	n	11	ч	n	n	17	
i	Benzyl alcohol	ND	0.330	"	17	10	n	*1	n	
	Bis(2-chloroethoxy)methane	ND	0.330	n	17	70	17	"	n	
	Bis(2-chloroethyl)ether	ND	0.330	11	n	te.	. "	n	**	
ì	(2-chloroisopropyl)ether	ND	0.330	**	n	н	•	"	**	
	(2-ethylhexyl)phthalate	ND	0.330	11	u	h	n	tr .	**	
ş	4-Bromophenyl phenyl ether	ND	0.330	Ħ	11	17	•	**	Ħ	
	Butyl benzyl phthalate	ND	0.330	n	n	17	11	"	ıı ·	
	Carbazole	ND	0.330	н	n	н	11	11	n	
	4-Chloroaniline	ND	0.500	n		**		н	n	
ı	2-Chloronaphthalene	ND	0.330	tr		**	n	n	n	
ţ	4-Chloro-3-methylphenol	ND	0.330	10	u	H	n	17	11	
	2-Chlorophenol	ND	0.330	**	**	l7	**	н	Ħ	
ı	4-Chlorophenyl phenyl ether	ND	0.330	n	n	ıı	**	n	**	
ĺ	Chrysene	ND	0.330	н	n	u	11	11	in	
	Dibenz (a,h) anthracene	ND .	0.330	,	н	11	н	**	19	
	Dibenzofuran	ND	0.330	17		11	n	н	n	
	Di-n-butyl phthalate	ND	0.330	**	11	n	Ħ	11	n	
,	1,3-Dichlorobenzene	ND	0.330		n	и		n	**	
	1,4-Dichlorobenzene	ND	0.330	ti	n	17	Ħ	11	77	
	1,2-Dichlorobenzene	ND	0.330	. 11	H		ti	n	**	
	3,3'-Dichlorobenzidine	ND	5.00	**	11	n	tr	n	"	
1		ND	0.330	**	71	n	*1	,	h	
	2,4-Dichlorophenol	ND	0.330	п	11	н	*1		n	
į	Diethyl phthalate	ND ND	0.330	н	н	н	şi .	11	D	
į	2,4-Dimethylphenol	ND	0.330	11	n	n	n	11	U	
	Dimethyl phthalate				"	н		n	н	
í	4,6-Dinitro-2-methylphenol	ND	0.500	. "		n	п	н		
-	2,4-Dinitrophenol	ND	0.500	н		 Ir		n h	**	
1	2,4-Dinitrotoluene	ND	0.500	"	**	**	•	••		

rth Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C

North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-33-20 (B0K0613-24) Soil	Sampled: 11/22/00 12:00	Receiv	ed: 11/22/00	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	n	n	n	tt	**	•	
Fluoranthene	ND	0.330	n	11	**	n	**	**	
Fluorene	ND	0.330	n	n	ıı	Ħ	u	n	
Hexachlorobenzene	ND	0.330	Ħ	n	n	**		tr	-
Hexachlorobutadiene	ND	0.330	n	n	tı	n	**	n	
Hexachlorocyclopentadiene	ND	0.500	n	n	**	**	**	17	-
Hexachloroethane	ND	0.330	н	n	*	*1	**	n	
Indeno (1,2,3-cd) pyrene	ND	0.330	Ħ	11	n	"	Ħ	H	
Isophorone	ND	0.330	"	**	Ħ		**	**	ļ
2-Methylnaphthalene	ND	0.330	n	n	**		**	**	
2-Methylphenol	ND	0.330	Ħ	•	H	**	"	n	
3 & 4-Methylphenol	ND	0.330	**	10	11	**	u	n	1
Naphthalene	ND	0.330	**	**	n	•	u	n	i i
2-Nitroaniline	ND	0.500	n	11	н	н	11	н	`
3-Nitroaniline	ND	0.500	n	и	*1	· ·	п	**	1
4-Nitroaniline	ND	0.500	tt	n	n	**	h	n	1
Nitrobenzene	ND	0.330	**	11	u.	**	11	n	
2-Nitrophenol	ND	0.330	н	11	н	H	**	"	
4-Nitrophenol	ND	0.500	n	n	"	н	н	11	i
N-Nitrosodiphenylamine	ND	0.330	rı	n	н	**	н	11	-
N-Nitrosodi-n-propylamine	ND	0.330	*1	n	н	Ħ	n	17	
Pentachlorophenol	ND	0.500	"	71	H	n	н	n	1
Phenanthrene	ND	0.330	17	n	n	U	Ħ	н .	'
Phenol	ND	0.330	II	17	Ħ	"	n	n	
Pyrene	ND	0.330	n	n	**	**		lT .	1
1,2,4-Trichlorobenzene	ND	0.330	Ħ	Ħ	н	**		n	;
2,4,5-Trichlorophenol	ND	0.330	**	. "	n	11	**	H	-
2,4,6-Trichlorophenol	ND	0.330	n	71	n	11	#		f
Surrogate: 2-FP	58.2 % 1	0-123			,,	"	"	"	1
Surrogate: Phenol-d6	78.1 %	0-130	•		"	"	"	n	J
Surrogate: 2,4,6-TBP		0-131			"	"	"	17	
Surrogate: Nitrobenzene-d5		0-126			"	"	"	"	1
Surrogate: 2-FBP		4-125			"	"	"	"	
Surrogate: p-Terphenyl-d14		15-135			n	"	"	"	

North Creek Analytical - Bothell

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Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

SB-33-25 (B0K0613-25) Soil Sampled: 11/22/00 12:05 Received: 11/22/00 16:20 SB-32-25 (B0K0613-25) Soil Sampled: 11/22/00 16:20 SB-32-25 (B0K0613-25) Soil SB	Notes	Method	Analyzed	Prepared	Batch	Dilution	Units	porting Limit	Result	Analyte
Acenaphthene ND 0.330 mg/kg dry 1 0.05025 12/05/00 12/06/00 EPA 8270C Acenaphthylene ND 0.330 " " " " " " " " " " " " " " " " " "			_			16.20		Dacaive	Sampled: 11/22/00 12:05	<u> </u>
Acenaphthylene ND 0.330 " " " " " " " " " " " " " " " " " "		FPA 8270C	12/06/00	12/05/00	01.05025			-		
Aniline										-
Anthracene ND 0.330 " " " " " " " " " " " " " " " " " "		u	n	11	11	"	**			
Anthracene ND 0.330		n	h	"	17		11			
Benzo (a) anthracene ND		и	**	11	v					
Benzo (b) fluoranthene ND 0.330		ı	,	**						_ : : - :
Benzo (k) fluoranthene		er	n		,					- ·
Benzo (k) Huorantinene ND		u								
Benzo (gh) perylene ND		11								
Benzo (a) pyrene ND										
Benzy1 alcohol ND 0.330			-							
Bis(2-chloroethoxy)methane										
Rise?-c-hloroethyl)ether ND 0.330 """"""""""""""""""""""""""""""""""""										,
2-chloroisopropyl)ether										- ·
A-Bromophenyl phenyl ether ND 0.330										:_2-ethylhexyl)phthalate
Butyl benzyl phthalate ND 0.330 """"""""""""""""""""""""""""""""""""									ND	4-Bromophenyl phenyl ether
Carbazole ND 0.330 "				**		"	**		ND	Butyl benzyl phthalate
4-Chloroapiline ND 0.500 """"""""""""""""""""""""""""""""""""		n	n	**	n	11	b)	0.330	ND	Carbazole
2-Chloronaphthalene 4-Chloro-3-methylphenol ND 0.330 ND 0.330 ND 2-Chlorophenol ND 0.330 ND 0.330 ND 0.330 ND 0.330 ND 0.330 ND 0.330 ND ND 0.330 ND ND 0.330 ND ND ND 0.330 ND ND ND ND ND ND ND ND ND ND ND ND ND				H	h	n	n	0.500	ND	4-Chloroaniline
4-Chloro-3-methylphenol ND 0.330 " <td< td=""><td></td><td>n</td><td>n</td><td>n</td><td>11</td><td>ır</td><td>11</td><td>0.330</td><td>ND</td><td>2-Chloronaphthalene</td></td<>		n	n	n	11	ır	11	0.330	ND	2-Chloronaphthalene
2-Chlorophenol ND 0.330 " " " " " " " " " " " " " " " " " "		n	n	**	Ħ	u	н	0.330	ND	4-Chloro-3-methylphenol
4-Chlorophenyl phenyl ether ND 0.330 "		17	n	n	n	Ħ	n	0.330	ND	
Chrysene ND 0.330 """"""""""""""""""""""""""""""""""""		Ħ	n	n	n	н	17	0.330	ND	•
Dibenz (a,h) anthracene ND 0.330 """"""""""""""""""""""""""""""""""""		н	**	11	ti	II	**	0.330	ND	· · · · · · · · · · · · · · · · · · ·
Dibenzofuran ND 0.330 "		n	n	n	11	n	н	0.330	ND	
Di-n-butyl phthalate ND 0.330 " <td></td> <td>ti .</td> <td>P</td> <td>n</td> <td>H</td> <td>11</td> <td>н</td> <td>0.330</td> <td>ND</td> <td></td>		ti .	P	n	H	11	н	0.330	ND	
1,3-Dichlorobenzene ND 0.330 " </td <td></td> <td>u</td> <td>11</td> <td>**</td> <td>н</td> <td>n</td> <td></td> <td>0.330</td> <td></td> <td></td>		u	11	**	н	n		0.330		
1,4-Dichlorobenzene ND 0.330 " </td <td></td> <td>11</td> <td>. 11</td> <td>n</td> <td>н</td> <td>"</td> <td>10</td> <td>0.330</td> <td>ND</td> <td></td>		11	. 11	n	н	"	10	0.330	ND	
1,2-Dichlorobenzene ND 0.330 " </td <td></td> <td>n</td> <td>71</td> <td>п</td> <td>17</td> <td>17</td> <td>11</td> <td>0.330</td> <td>ND</td> <td></td>		n	71	п	17	17	11	0.330	ND	
3,3'-Dichlorobenzidine ND 5.00 "		n	н	н	**	"	H		ND	-
2,4-Dichlorophenol ND 0.330 " <td></td> <td>п</td> <td>n n</td> <td>n</td> <td></td> <td>ŧı</td> <td>п</td> <td></td> <td></td> <td>•</td>		п	n n	n		ŧı	п			•
Diethyl phthalate ND 0.330 "		**	17	m	11	Ħ	n			•
2,4-Dimethylphenol ND 0.330 " " " " " " " " " " " " " " " " " "		**	n	n	n	17	11			•
Dimethyl phthalate ND 0.330 " " " " " "		11	Ħ	n	v	n	н			
		н	н	ш	"	11	н			
A D-CHRUSTO- (-DECOVIDED IN IN IN IN IN IN IN IN IN IN IN IN IN		n	'n	Ħ	"	11	11			
14 - mar - may 1, 1		11	n	11	n	**	11			4,6-Dinitro-2-methylphenol
2,4-Dinitrophenol ND 0.500 " <td></td> <td>**</td> <td>ti</td> <td>н</td> <td>н</td> <td></td> <td></td> <td></td> <td></td> <td></td>		**	ti	н	н					

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase Il

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

		eporting	71-74-	TNII	Datel	Decreed	Analymad	Method	Notes
Analyte	Result	Limit	Units	Dilution	Batch	rrepared	Analyzed		
SB-33-25 (B0K0613-25) Soil	Sampled: 11/22/00 12:05	Receiv	ed: 11/22/00	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	n	H	n	n	H	"	1
Fluoranthene	ND	0.330	11	н	**	11	"	n	}
Fluorene	ND	0.330	n	19	Ħ	п	**	**	ŧ
Hexachlorobenzene	ND	0.330	IJ	ŧ1	"	н	n	н	
Hexachlorobutadiene	ND	0.330	Ħ	"	н	11	tt.	n	,
Hexachlorocyclopentadiene	ND	0.500	n	10	"	**	**	n	1
Hexachloroethane	ND	0.330	n	n		n	n	"	
Indeno (1,2,3-cd) pyrene	ND	0.330	n	71		п	n	11	
Isophorone	ND	0.330	**	n	H	**	**	n	1
2-Methylnaphthalene	ND	0.330	11	p	It	ļi	n	n	
2-Methylphenol	ND	0.330	11	U	n	u	n	н	
3 & 4-Methylphenol	ND	0.330	11	"	•	n	**	**	,
Naphthalene	ND	0.330	n	n	**	**	**	n	(,
2-Nitroaniline	ND	0.500	ħ	n	n	"	"	n	·
3-Nitroaniline	ND	0.500	b	**	n	H	H	н	
4-Nitroaniline	ND	0.500	п	**	Ħ	11	**	Ħ	İ
Nitrobenzene	ND	0.330	**	n	Ħ	n	11	n	
2-Nitrophenol	ND	0.330	H	n	17	D		и.	1
4-Nitrophenol	ND	0.500	tr.	TI	n	ti	**	n	
N-Nitrosodiphenylamine	ND	0.330	H	•	**	r,	**	n	i
N-Nitrosodi-n-propylamine	ND	0.330	11	n	н	17	Ħ	n	
Pentachlorophenol	ND	0.500	**	n	н	н	**	n	- I
Phenanthrene	. ND	0.330	U	11	**	н	*	p	1
Phenol	ND	0.330	11	n	**	11	н	17	
Pyrene	ND	0.330	H	n	n	н	n	n	
1,2,4-Trichlorobenzene	ND	0.330	If	n	9	n	**	**	1
2,4,5-Trichlorophenol	ND	0.330	n	n	11	**	11	n	ļ
2,4,6-Trichlorophenol	ND	0.330	u	n	**	19	19	n	
Surrogate: 2-FP	45.9 %	0-123			"	"	"	,,	J.
Surrogate: Phenol-d6	77.6 %	0-130			"	"	"	"	į
Surrogate: 2,4,6-TBP	24.1 %	0-131			"	n	"	"	
Surrogate: Nitrobenzene-d5	92.7 %	0-126			"	n	"	"	1
Surrogate: 2-FBP		24-125			"	"	"	<i>n</i>	i
Surrogate: p-Terphenyl-d14		15-135		٠	"	"	"	n	
B 1									

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

· · · · · · · · · · · · · · · · · · ·	R	eporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-34-2 (B0K0613-26) Soil	Sampled: 11/22/00 13:22	Receive	d: 11/22/00	16:20					
Acenaphthene	ND	0.330	mg/kg dry]	0L05025	12/05/00	12/06/00	EPA 8270C	
Acenaphthylene	ND	0.330	U	n	**	n	n	n	
Aniline	ND	0.330	n	17	**	n		h	
Anthracene	ND	0.330	11	17	**	11	**	n	
Benzoic Acid	ND	1.00	H	U	н	**	н	u	
Benzo (a) anthracene	ND	0.330	н	11	17	#1	и	11	
Benzo (b) fluoranthene	ND	0.330	"	**	н	n	II .	н	
Benzo (k) fluoranthene	ND	0.330	n	n	17	12	n	Ħ	•
Benzo (ghi) perylene	ND	0.330	н	Ħ	11	n	n	н	
Benzo (a) pyrene	ND	0.330	11	*1	и	11	ti .	и	
Benzyl alcohol	ND	0.330	lt	11	11	".	lt .	H	
Bis(2-chloroethoxy)methane	ND	0.330	ti	*1	n	n	0	n	
Bis(2-chloroethyl)ether	ND	0.330	tr	H		"	'n	ti	
2-chloroisopropyl)ether	ND	0.330	ŧı	"	n	ti	n	n	
2-ethylhexyl)phthalate	ND	0.330	11	n	**	**	n	n	
4-Bromophenyl phenyl ether	ND	0.330	11	17	н	Ħ	*1	"	
Butyl benzyl phthalate	ND	0.330	н	11	**	n	н	**	
Carbazole	ND	0.330	#	IT	11	n	H	n .	
4-Chloroaniline	ND	0.500	н	u	v	n	II	и	
2-Chloronaphthalene	ND	0.330	n	н	U	u u	U	n	
4-Chloro-3-methylphenol	ND	0.330	**	H	11	11	n	n	
2-Chlorophenol	ND	0.330	10	н	**	n	**	n	
4-Chlorophenyl phenyl ether	ND	0.330	**	H	**	n	TI TI	*1	
Chrysene	ND	0.330	n	n	"	n	n	**	
Dibenz (a,h) anthracene	ND	0.330	n	н	*	н	h	n	
Dibenzofuran	ND	0.330	n	v	H	"	**	"	
Di-n-butyl phthalate	ND	0.330		tı	lt*	h	17	11	
1,3-Dichlorobenzene	ND	0.330	н	11	H	I)		n	
1,4-Dichlorobenzene	ND	0.330	n	n	H	n	n	n	
1,2-Dichlorobenzene	ND	0.330	н	11	n	п	11	n	
3,3'-Dichlorobenzidine	ND	5.00	IP	н	Ħ	**	n	n	
2,4-Dichlorophenol	ND	0.330	и	H	**	ti	n	#1	
Diethyl phthalate	ND	0.330	11	n	11	ŧ	n	n	
2,4-Dimethylphenol	ND	0.330	te te	*	n	71	н	n	
Dimethyl phthalate	ND	0.330	11	Ħ	н	n	n	"	
4,6-Dinitro-2-methylphenol	ND	0.500	н '	Ħ	17	n	n	n	
2,4-Dinitrophenol	ND	0.500	**	H	n	n	n	tr .	
2,4-Dinitrotoluene	ND	0.500	"	**	n	11	n	U	

th Creek Analytical - Bothell

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Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

	R	eporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-2 (B0K0613-26) Soil	Sampled: 11/22/00 13:22	Receive	d: 11/22/00	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	i n	11	н	71	n	n	
Fluoranthene	ND	0.330	"	н	**	#	Ħ	n	
Fluorene	ND	0.330	"	и	**	n	н	**	
Hexachlorobenzene	ND	0.330	1 11	н	Ħ	п	li .	R	
Hexachlorobutadiene	ND	0.330	,,,	n	n	н	**	i)	
Hexachlorocyclopentadiene	ND	0.500	'n	11	11	Ħ	"	n	
Hexachloroethane	ND	0.330	i n	**	li .	**	Ħ	U	
Indeno (1,2,3-cd) pyrene	ND	0.330	i n	17	11	17	11	"	
Isophorone	ND	0.330	, n	H	"	**	11	"	
2-Methylnaphthalene	ND	0.330	"	**	**	n	19	n	
2-Methylphenol	ND	0.330	В	n	11	n	n	п	
3 & 4-Methylphenol	ND	0.330	i "	11	n	n	н	n	
Naphthalene	ND	0.330	u	Ħ	19	Ħ	*	н	()
2-Nitroaniline	ND	0.500	ti	н	n	n	н		``
3-Nitroaniline	ND	0.500	"	**	n	"	Ħ	n	
4-Nitroaniline	ND	0.500		н	n	"	n	11	
Nitrobenzene	ND	0.330	P)	"	н	77	11	и	
2-Nitrophenol	ND	0.330	**	Ħ	u) t	11	н	
4-Nitrophenol	ND	0.500	1 11	"	"	n	11	н	
N-Nitrosodiphenylamine	ND	0.330	"	11	**	"	11	н	
N-Nitrosodi-n-propylamine	ND	0.330	, .	n	11	**	ti	n	
Pentachlorophenol	ND	0.500	¦ n	"	11	n	11	11	
Phenanthrene	ND	0.330	. "	"	n	и	**	•	
Phenol	ND	0.330	("	"	"	n	n	Ħ	
Pyrene	ND	0.330	0	"	н		**	Ħ	
1,2,4-Trichlorobenzene	ND	0.330	1 11	n	н	n	**		
2,4,5-Trichlorophenol	ND	0.330) 0	н	и	"	**	н	
2,4,6-Trichlorophenol	, ND	0.330	"	· ·	н	n	, 11	H	
Surrogate: 2-FP	100 %	0-123	 		"	"	"	n	
Surrogate: Phenol-d6	101 %	0-130			"	"	n	"	
Surrogate: 2,4,6-TBP	115 %	0-131	1		"	"	"	n	
Surrogate: Nitrobenzene-d5	96.9 %	0-126	1		"	"	H	"	
Surrogate: 2-FBP		24-125			,,	n	"	"	
Surrogate: p-Terphenyl-d14	121 %	15-135	•		"	"	"	"	

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Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C

North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-5 (B0K0613-27) Soil	Sampled: 11/22/00 13:27	Receive	d: 11/22/00 1	16:20					
Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Acenaphthylene	ND	0.330	"	n	n	п	Ħ	**	
Aniline	ND	0.330	n	n	n	n	Ħ	*1	
Anthracene	ND	0.330	н	n	17	И	н	11	
Benzoic Acid	ND	1.00	17	11	**	tr.	D	n	
Benzo (a) anthracene	ND	0.330	n	н	ti	"	н	11	
Benzo (b) fluoranthene	ND	0.330	"	н	11	"	n.	*1	
Benzo (k) fluoranthene	ND	0.330	"	11	n	11	Ħ	n	
Benzo (ghi) perylene	ND	0.330	11	н	#	n	Ħ	"	
Benzo (a) pyrene	ND	0.330	n	,,		n	n	ħ	
Benzyl alcohol	ND	0.330	n	•	и	'n	n	u ·	
Bis(2-chloroethoxy)methane	ND	0.330	11	11		11	Ħ	23	
Ris(2-chloroethyl)ether	ND	0.330	н	11	n	11	H	17	
2-chloroisopropyl)ether	ND	0.330	tt .	n	n	*1	tr .	п	
2-ethylhexyl)phthalate	ND	0.330	•	"	н	n		п	
4-Bromophenyl phenyl ether	ND	0.330	u	н	"	Ħ	**	n	
Butyl benzyl phthalate	ND	0.330	ıı		"	n	n	11	
Carbazole	ND	0.330	n	n		n	н	н	
4-Chloroaniline	ND	0.500	ıı		n	n	n	n	
2-Chloronaphthalene	ND	0.330	"	**	**	*1	t)	n	
4-Chloro-3-methylphenol	ND	0.330	**	**	11	h	47	"	
2-Chlorophenol	ND	0.330	n	н		"	"	11	
4-Chlorophenyl phenyl ether	ND	0.330	n	p	•	н	r	n	
Chrysene	ND	0.330	n	н	**	h	**	n	
Dibenz (a,h) anthracene	ND	0.330	II .	"		**	н	н	
Dibenzofuran	ND	0.330	Ħ	и	ŋ	17	ıı	n	
Di-n-butyl phthalate	ND	0.330	•	**	11	P	"	u	
1,3-Dichlorobenzene	ND	0.330	n		'n	n	n	11	
1,4-Dichlorobenzene	ND	0.330	,	n	n	н	n	п	
1,2-Dichlorobenzene	ND	0.330	Ħ	n	'n	b	n	11	
3,3'-Dichlorobenzidine	ND	5.00	n	p	17	*1	и	n	
2,4-Dichlorophenol	ND	0.330	n	n	Ħ	U	n	н	
Diethyl phthalate	ND	0.330	n	ti	**	11	n	н	
2,4-Dimethylphenol	ND	0.330	11	n	n	п	lr .	n	
Dimethyl phthalate	ND	0.330		n	n	II .	11	n	
4,6-Dinitro-2-methylphenol	ND	0.500	**	n	17		11	11	
2,4-Dinitrophenol	ND	0.500	n		,,	•	11	Ħ	
2,4-Dinitrotoluene	ND	0.500	tr	n	v	ı	**	н	

rth Creek Analytical - Bothell

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North Creek Analytical, Inc. **Environmental Laboratory Network**



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported: 12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Project Manager: Bryan Graham

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-5 (B0K0613-27) Soil	Sampled: 11/22/00 13:27	Receive	d: 11/22/00 1	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry)	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	n	ti	11	n	n	n	
Fluoranthene	ND	0.330	11	**	**	*1	n	n	
Fluorene	ND	0.330	n	**	*1	**	n	11	
Hexachlorobenzene	ND	0.330	u	**	н	**	n	**	
Hexachlorobutadiene	ND	0.330	n	n	"	11	tı	n	
Hexachlorocyclopentadiene	ND	0.500	U	17	11	11	H	10	
Hexachloroethane	ND	0.330	n	11	17	**	11	h	
Indeno (1,2,3-cd) pyrene	ND	0.330	u	n n	ti	ıı	11	n	,
Isophorone	ND,	0.330	II	17	"	n	**	n	
2-Methylnaphthalene	ND	0.330	"	v	D	H	"	n	
2-Methylphenol	ND	0.330	u	U	11	11	"	N	
3 & 4-Methylphenol	ND	0.330	n	11	H	11	n	H	· 1
Naphthalene	ND	0.330	H	u	H	н	b	ħ	(',
2-Nitroaniline	ND	0.500	11	*1	Ħ	н	p	n	* -
3-Nitroaniline	ND	0.500	11	н	*1	11	Ħ	1	i
4-Nitroaniline	ND	0.500	*1	н	*1		Ħ	. "	
Nitrobenzene	ND	0.330	"	u		11	11	**	
2-Nitrophenol	ND	0.330	11	*1	**	*1	n	n	!
4-Nitrophenol	ND	0.500	"	**	71	**	•	**	į
N-Nitrosodiphenylamine	ND	0.330	**	**	*1	**	**	n.	
N-Nitrosodi-n-propylamine	ND	0.330	n	"	71	**	**	n	
Pentachlorophenol	ND	0.500	n	*1	n	17	п	н	1
Phenanthrene	ND	0.330	• "	n	n	n	и	н	,
Phenol `	ND	0.330	"	"	11	11	n	Ħ	
Pyrene	ND	0.330	11	11	**	n	n	n	,
1,2,4-Trichlorobenzene	ND	0.330	11	**	n	11	н	**	1
2,4,5-Trichlorophenol	ND	0.330	"	μ	n	μ	p	TT TT	,
2,4,6-Trichlorophenol	ND	0.330	11	"	n	н	n	**	
Surrogate: 2-FP	59.9 %	0-123			"	,,	"	"	i
Surrogate: Phenol-d6	84.0 %	0-130			,,	"	n	,,	!
Surrogate: 2,4,6-TBP		0-131			"	**	n	"	
Surrogate: Nitrobenzene-d5		0-126			n	"	"	"	{
Surrogate: 2-FBP		4-125			"	"	"	**	1
Surrogate: p-Terphenyl-d14		5-135			"	"	"	**	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase Il

Project Number: n/a

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Reporting										
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
SB-34-10 (B0K0613-28) Soil	Sampled: 11/22/00 13:32	Received: 11/22/00 16:20								
Acenaphthene	ND .	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C		
Acenaphthylene	ND	0.330	H	11		н	n	н		
Aniline	ND	0.330	**	н	**	n	н	ti		
Anthracene	ND	0.330	n	11	"	n	n	**		
Benzoic Acid	ND	1.00	11		и	n	h	n		
Benzo (a) anthracene	ND	0.330	11	*1	n	"	h	1)		
Benzo (b) fluoranthene	ND	0.330	H	н	n	***	17	U		
Benzo (k) fluoranthene	ND	0.330	n)ı	n	n	**	Ħ		
Benzo (ghi) perylene	ND ·	0.330	11	n	n	n	11	**		
Benzo (a) pyrene	ND	0.330	11	n	u	17	п	н		
Benzyl alcohol	ND	0.330	**	u	n.	н	н	71		
Bis(2-chloroethoxy)methane	ND	0.330	н	п	n	ti	•	Ħ		
Bis(2-chloroethyl)ether	ND	0.330	n	н	11	**		H		
2-chloroisopropyl)ether	ND	0.330	n	**	н	"	**	Ħ	•	
2-ethylhexyl)phthalate	ND	0.330	n		11	H	н	Ħ		
4-Bromophenyl phenyl ether	ND	0.330	**		n	"	19	ч		
Butyl benzyl phthalate	ND	0.330	n	**	n	n	11	tr		
Carbazole	ND	0.330	n	n	n	11	11	D		
4-Chloroaniline	ND	0.500	tr	tr .	,,	n	*1	ti		
2-Chloronaphthalene	ND	0.330	"	11	п	n	n	n	•	
4-Chloro-3-methylphenol	ND	0.330	n	**	H.	n	v	ır		
2-Chlorophenol	ND	0.330	n	н	**	n	**	n		
4-Chlorophenyl phenyl ether	ND	0.330	"	. "	11	11	n	n		
Chrysene	ND	0.330			n	n	n	n		
Dibenz (a,h) anthracene	ND	0.330	н	u	н	11	11	n		
Dibenzofuran	ND	0.330	•	11	17	h	н	11		
Di-n-butyl phthalate	ND	0.330	17		**	11	**	11		
1,3-Dichlorobenzene	ND	0.330	11	11		ŧ		n		
1,4-Dichlorobenzene	ND	0.330	n	U	н	**	11	n		
1,2-Dichlorobenzene	ND	0.330	н	ti	n	п	**	"		
3,3'-Dichlorobenzidine	ND	5.00		н	n	17	**	n		
· ·	ND	0.330	ıı	**	· "	**	n	n		
2,4-Dichlorophenol	ND ND	0.330	n	н	**	IT	n	11		
Diethyl phthalate	ND	0.330	H	n	n	n	n	н		
2,4-Dimethylphenol	ND ND	0.330	h	11	n	**	ч	п		
Dimethyl phthalate	ND ND	0.500	n	**		n	n	w		
4,6-Dinitro-2-methylphenol			 H	п	71	11	и	11		
2,4-Dinitrophenol	ND	0.500	"		11	U	n	11		
2,4-Dinitrotoluene	ND	0.500		**	**		-			

th Creek Analytical - Bothell

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Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Bend

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Fluorene ND 0.330	Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-n-octyl phthalate	SB-34-10 (B0K0613-28) Soil	Sampled: 11/22/00 13:32	Receiv	ed: 11/22/00	16:20					
Fluoranthene	2,6-Dinitrotoluene	ND	0.500	mg/kg dry	ı	0L05025	12/05/00	12/06/00	EPA 8270C	
Fluorene	Di-n-octyl phthalate	ND	0.330	"	**	н	Ħ	**	n	
Hexachlorobenzene ND 0.330	Fluoranthene	ND	0.330	n	*1	n	#	**	n	1
Hexachlorobenzene	Fluorene	ND	0.330	n	**	#	n	17	B	,
Hexachlorocyclopentadiene	Hexachlorobenzene	ND	0.330	n	**	n	н	.,	n	
Hexachlorocyclopentatione	Hexachlorobutadiene	ND	0.330	. "	"	H	17	"	"	{
Hexachloroethane ND 0.330 "	Hexachlorocyclopentadiene	ND	0.500	17	n	n	*	"	"	١.
Indend (1,7,3-tot) pyrefe ND	Hexachloroethane	ND.	0.330	••	H	n	n	**	n	
2-Methylphenol ND 0.330 " " " " " " " " " " " " " " " " " "	Indeno (1,2,3-cd) pyrene	ND	0.330	•	н	н	н		n	
2-Methylnaphthalene	Isophorone	ND	0.330	•	n	P	н	**	Ħ	j
2-Methylphenol ND 0.330 " " " " " " " " " " " " " " " " " "		ND	0.330	•	p	H	n	"	"	
3 & 4-Methylphenol ND 0.330 " <td></td> <td>ND</td> <td>0.330</td> <td>n</td> <td>P</td> <td>н</td> <td>n</td> <td>**</td> <td>**</td> <td>1</td>		ND	0.330	n	P	н	n	**	**	1
Naphthalene ND 0.330 " " " " " " " " " " " " " " " " " "		ND	0.330	11	**	n	n	**	"	·- · /
2-Nitroaniline ND 0.500 " " " " " " " " " " " " " " " " " "	- ·	ND	0.330	U	H	n	n	**	*	
4-Nitrobenzene ND 0.500 " " " " " " " " " " " " " " " " " "	•	ND	0.500	н	н	n	n	**	n	
No	3-Nitroaniline	ND	0.500	н	u	tr	н	**	**	
2-Nitrophenol ND 0.330 " " " " " " " " " " " " " " " " " "	4-Nitroaniline	ND	0.500	n		**	**	#	**	
2-Nitrophenol ND 0.330 " " " " " " " " " " " " " " " " " "	Nitrobenzene	ND	0.330	n	•	H	**	71	**	•
4-Nitrophenol ND 0.500 " " " " " " " " " " " " " " " " " "	2-Nitrophenol	ND	0.330	••	*	**	•	**	**	
N-Nitrosodi-n-propylamine ND 0.330 " " " " " " " " " " " " " " " " " "	· · · · · · · · · · · · · · · · · · ·	ND	0.500	n	*	"	**	**	**	1
Pentachlorophenol ND 0.500 " " " " " " " " " " " " " " " " " "	N-Nitrosodiphenylamine	ND	0.330	n	н	"		**	۰.	
Pentachlorophenol ND 0.500 "	N-Nitrosodi-n-propylamine	ND	0.330	11	**	*1	n	n	n	
Phenol ND 0.330 " <th< td=""><td></td><td>ND</td><td>0.500</td><td>н</td><td>**</td><td>**</td><td>n</td><td>h</td><td>ħ</td><td></td></th<>		ND	0.500	н	**	**	n	h	ħ	
Pyrene ND 0.330 " " " " " " " " " " " " " " " " " "	Phenanthrene	ND	0.330	н	77	H	н	Ħ	n	j
1,2,4-Trichlorobenzene ND 0.330 "	Phenol	ND	0.330	**	11	11	n	•	ı,	
1,2,4-1 Inchlorobenzene ND 0.330 " <td< td=""><td>Pyrene</td><td>ND</td><td>0.330</td><td>· ·</td><td>**</td><td>H</td><td>tt</td><td>n</td><td>"</td><td></td></td<>	Pyrene	ND	0.330	· ·	**	H	tt	n	"	
2,4,6-Trichlorophenol ND 0.330 "	1,2,4-Trichlorobenzene	ND	0.330		**	n	n	•	n	,
Z4,46-Trichlorophenol ND 0.330 Surrogate: 2-FP 59.5 % 10-123 " " " " " " Surrogate: Phenol-d6 81.1 % 10-130 " " " " " " Surrogate: 2,4,6-TBP 36.7 % 10-131 " " " " " " Surrogate: Nitrobenzene-d5 90.0 % 10-126 " " " " " " Surrogate: 2-FBP 103 % 24-125 " " " " " " "	2,4,5-Trichlorophenol	ND	0.330	u	n	n	Ħ	**	n	-
Surrogate: Phenol-d6 81.1 % 10-130 " " " " " Surrogate: 2,4,6-TBP 36.7 % 10-131 " " " " " Surrogate: Nitrobenzene-d5 90.0 % 10-126 " " " " " " Surrogate: 2-FBP 103 % 24-125 " " " " " " "	2,4,6-Trichlorophenol	ND	0.330	n	н	**	n	n	n	1-
Surrogate: Phenol-d6 81.1 % 10-130 " " " " " " Surrogate: 2,4,6-TBP 36.7 % 10-131 " " " " " " Surrogate: Nitrobenzene-d5 90.0 % 10-126 " " " " " " " Surrogate: 2-FBP 103 % 24-125 " " " " " " "	Surrogate: 2-FP	59.5 % 1	0-123	-		"	"	"	,,	
Surrogate: 2,4,6-TBP 36.7 % 10-131 " " " " " " Surrogate: Nitrobenzene-d5 90.0 % 10-126 " " " " " " " Surrogate: 2-FBP 103 % 24-125 " " " " " " "		81.1 % 1	0-130			"	"	"	n	1.
Surrogate: Nitrobenzene-d5 90.0 % 10-126 " " " " " Surrogate: 2-FBP 103 % 24-125 " " " " "			0-131			"	"	"	"	
Surrogate: 2-FBP 103 % 24-125 " " " "			0-126			"	"	"	"	ſ
Dail of Gallet. 2 7 27			4-125			"	"	"	"	Í
	Surrogate: p-Terphenyl-d14					"	"	"	"	

North Creek Analytical - Bothell

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Gill, Project Manager

Page 100 of 13 North Creek Analytical, Inc. **Environmental Laboratory Network**



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-15 (B0K0613-29) Soil	Sampled: 11/22/00 13:37	Receiv	ed: 11/22/00	16:20					
Acenaphthene	ND	0.330	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	 -
Acenaphthylene	ND	0.330	n	11	н	n	н	u	
Aniline	ND	0.330	,	17	n	11	н	и	
Anthracene	ND	0.330	n	17	**	17	h	n	
Benzoic Acid	ND	1.00	n	n	н	n	n	H	
Benzo (a) anthracene	ND	0.330	n	n	н	н	19	n	
Benzo (b) fluoranthene	ND	0.330	**	n	н	n	n	n	
Benzo (k) fluoranthene	ND	0.330	н	11	n	n	n	n	
Benzo (ghi) perylene	ND	0.330	11	"	n	11	11	m	
Benzo (a) pyrene	ND	0.330	Ħ	"		**	n	m	
Benzyl alcohol	ND	0.330	**	"	n	n	D	n	
Bis(2-chloroethoxy)methane	ND	0.330	n	н	n	71	U	n	
Bis(2-chloroethyl)ether	ND	0.330	ıı	п	**	n	*1	11	
(2-chloroisopropyl)ether	ND	0.330	n		u	17	**	tr	
(2-ethylhexyl)phthalate	ND	0.330	•	17		17	**	11	
4-Bromophenyl phenyl ether	ND	0.330	p		"	h	*1	11	
Butyl benzyl phthalate	ND	0.330	n	11	**	н	н	n	
Carbazole	ND	0.330	n	n	11	h	n	п	
4-Chloroaniline	ND	0.500	11	h	n	n	п	н	
2-Chloronaphthalene	ND	0.330	11	Ħ	H	**	"	D	
4-Chloro-3-methylphenol	ND	0.330	n	**	n	n	n	n	
2-Chlorophenol	ND	0.330	n	н	n	n	**	11	
4-Chlorophenyl phenyl ether	ND	0.330	н	н	n	17	**	n	
Chrysene	ND	0.330	H		н	IP .	n	n [*]	
Dibenz (a,h) anthracene	· ND	0.330	17	н	•	n	н	n	
Dibenzofuran	ND	0.330	ıı	tr	"	Ħ	**	n	
Di-n-butyl phthalate	ND	0.330	11	n	•		*	n	
1,3-Dichlorobenzene	ND	0.330	11	n	n	n	ir	н	
1,4-Dichlorobenzene	ND	0.330	n	Ħ	11	n	n	n	
1,2-Dichlorobenzene	ND	0.330	tt	n	'n	ч	n	n	
3,3'-Dichlorobenzidine	ND	5.00	**	n	17	n		π	
2,4-Dichlorophenol	ND	0.330	**	n	n	**	17	n	
Diethyl phthalate	ND	0.330	n	11	n	п	11	Ħ	
2,4-Dimethylphenol	ND	0.330	H	"	h	n	n	н	
Dimethyl phthalate	ND	0.330	n	11	91	н	н	h	
4,6-Dinitro-2-methylphenol	ND	0.500	11	h	**	II .	n	n	
2,4-Dinitrophenol	ND	0.500	11	н	н	lt	H	п	
2,4-Dinitrotoluene	ND	0.500	n		n	н	п	11	

rth Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Amar Gill, Project Manager

Page 101 of 132 North Creek Analytical, Inc. **Environmental Laboratory Network**



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541.383,9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-15 (B0K0613-29) Soil	Sampled: 11/22/00 13:37	7 Receiv	ed: 11/22/00	16:20					
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/06/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	۳.	11	n	11	н	11	
Fluoranthene	ND	0.330	Ħ	**	"	11	*1	n	
Fluorene	ND	0.330	n	ıı	n	17	11	11	
Hexachlorobenzene	ND	0.330	n	ti .		tı	n	n	,-
Hexachlorobutadiene	ND	0.330	11	**	17	"	n	17	į
Hexachlorocyclopentadiene	ND	0.500	17	"	**	"	,	ħ	;
Hexachloroethane	ND	0.330	11	11	n	"	n	n	
Indeno (1,2,3-cd) pyrene	ND	0.330	n	n	n	**	71	n	1
Isophorone	ND	0.330	71	n	н	n	,,	17	1
2-Methylnaphthalene	ND	0.330	н	n	**	n	н	u	-
2-Methylphenol	ND	0.330	n	n	H	н	11	**	
3 & 4-Methylphenol	ND	0.330	u	71	n	*	#	**	, ,
Naphthalene	ND	0.330	**	"	U	H	t r	lt .	(,
2-Nitroaniline	ND	0.500	н	н	**	n	n	11	<u>`</u> -
3-Nitroaniline	ND	0.500	n	H	#	**	H	n	
4-Nitroaniline	ND	0.500	n	**	•	"	н	H	
Nitrobenzene	ND	0.330	11	п	**	*	11	n	
2-Nitrophenol	ND	0.330	и	n	**	n	"	n	
4-Nitrophenol	ND	0.500	U	11	n	**	**	H	İ
N-Nitrosodiphenylamine	ND	0.330	H	**	17	17	25	Ħ	1
N-Nitrosodi-n-propylamine	ND	0.330	11	n	"	n	17	n	
Pentachlorophenol	ND	0.500	H	"	**	tt	н	n	
Phenanthrene	ND	0.330	Ħ	ŧ1	H	**	, .	71	
Phenol	ND	0.330	"	n	n	. н	"	n	
Pyrene	ND	0.330	n	n	**	н		n	í
1,2,4-Trichlorobenzene	ND	0.330	l7	n	n	n	"	n	
2,4,5-Trichlorophenol	ND	0.330	11	ti	n	,	n	**	'-
2,4,6-Trichlorophenol	ND	0.330	n	**		17	17	**	=
Surrogate: 2-FP	63.7 %	10-123				,,	"	"	
Surrogate: Phenol-d6	81.3 %	10-130			"	"	11	"	Ĺ
Surrogate: 2,4,6-TBP	46.4 %	10-131			,,	"	"	"	
Surrogate: Nitrobenzene-d5		10-126			"	"	n	"	-
Surrogate: 2-FBP	101 %	24-125			"	n	n	"	i
Surrogate: p-Terphenyl-d14	116%	15-135			**	"	"	"	

North Creek Analytical - Bothell

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ill, Project Manager

Page 102 of 15 North Creek Analytical, Inc. Environmental Laboratory Network



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541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

	n	·ortina							
Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-20 (B0K0613-30) Soil	Sampled: 11/22/00 13:42	Receiv	ed: 11/22/00	16:20					
Acenaphthene	ND	0.330	mg/kg dry	I	0L05025	12/05/00	12/07/00	EPA 8270C	
Acenaphthylene	ND	0.330	н	77	"	"	**	"	
Aniline	ND	0.330	н	п	"	11	11	71	
Anthracene	ND	0.330	h	n	"	п	*	71	
Benzoic Acid	ND	1.00	n	н	11	н	n	n	
Benzo (a) anthracene	ND	0.330	11	"	**	n	n	n	
Benzo (b) fluoranthene	ND	0.330	"	"	**	n	n	lT .	
Benzo (k) fluoranthene	ND	0.330	**	n	n	n		v	
Benzo (ghi) perylene	ND	0.330	11	n	н	n	u .	n	
Benzo (a) pyrene	ND	0.330	11	11	11	n	tr	н	
Benzyl alcohol	ND	0.330	н	u	Ħ	n	W	U	
Bis(2-chloroethoxy)methane	ND	0.330	n	7.	H	n	n	ii .	
Bis(2-chloroethyl)ether	ND	0.330	h	**	n	n	#	**	
(2-chloroisopropyl)ether	ND	0.330	ņ	n		11	н	71	
(2-ethylhexyl)phthalate	ND	0.330	ņ	11	**	11	n	н	
-Bromophenyl phenyl ether	ND	0.330	n	n	"	"	H	17	
Butyl benzyl phthalate	ND	0.330	"	11	**	n	н	n	
Carbazole	ND	0.330	71	"	11	n	ır	и	
4-Chloroaniline	ND	0.500	n	n	n	n	D	н	
2-Chloronaphthalene	ND	0.330	n	'n	n	ŧı	n	Ħ	
4-Chloro-3-methylphenol	ND	0.330	IT	n	и.	**	p	Ħ	
2-Chlorophenol	ND	0.330	"	n	11.		н	H	
4-Chlorophenyl phenyl ether	ND	0.330	**	n	***	n	lt .	n	
Chrysene	ND	0.330	n	н	ıı	n	D	п	
Dibenz (a,h) anthracene	ND	0.330	н	11	19		'n	"	
Dibenzofuran	ND	0.330	n	11	n'	**	D	H	
Di-n-butyl phthalate	ND	0.330	n	n	**	ħ	ű	н	
1,3-Dichlorobenzene	ND	0.330	n	n	"	n	"	н	
1,4-Dichlorobenzene	ND	0.330	"	,,	"	#	n	11	
1,2-Dichlorobenzene	ND	0.330	n	n	ħ	P	'n	и	
3,3'-Dichlorobenzidine	ND	5.00	n	n	,,	H	n	11	
2,4-Dichlorophenol	ND	0.330	u	ŧŧ	11	н	u	11	
Diethyl phthalate	ND.	0.330	11	71	ıı	U	n	II .	
2,4-Dimethylphenol	ND	0.330	11	"		n	H	u	
Dimethyl phthalate	ND	0.330	n	71	n	"	11	н	•
4,6-Dinitro-2-methylphenol	ND	0.500	n	n	11	я	n	Ħ	
2,4-Dinitrophenol	ND	0.500	n		n	•	**	**	,
2,4-Dinitropnenoi 2,4-Dinitrotoluene	ND ND	0.500	n	n	n	"	'n	"	•
2,4-Dimirololuene	עא	0.500							

rth Creek Analytical - Bothell

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Gill, Project Manager

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachlorocyclopentadiene Hexachlorocthane Indeno (1,2,3-cd) pyrene Isophorone 2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	npled: 11/22/00 13:42 ND ND	Receiv 0.500	ed: 11/22/00						
Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno (1,2,3-cd) pyrene Isophorone 2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitrobenzene 2-Nitrophenol		0.500		16:20					
Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachlorocythane Indeno (1,2,3-cd) pyrene Isophorone 2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.300	mg/kg dry	l	0L05025	12/05/00	12/07/00	EPA 8270C	
Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachlorocthane Indeno (1,2,3-cd) pyrene Isophorone 2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol		0.330	*1	11	H		n	n	1
Hexachlorobutadiene Hexachlorocyclopentadiene Hexachlorocytlopentadiene Hexachlorocthane Indeno (1,2,3-cd) pyrene Isophorone 2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.330	**	н	n	n	17	17	1
Hexachloroethane Indeno (1,2,3-cd) pyrene Isophorone 2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitrobenzene 2-Nitrophenol	ND	0.330	**	n	**	n	17	11	1
Hexachlorocyclopentadiene Hexachlorocthane Indeno (1,2,3-cd) pyrene Isophorone 2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitrobenzene 2-Nitrophenol	ND	0.330	17	n	**	Ħ	17	n	1
Hexachloroethane Indeno (1,2,3-cd) pyrene Isophorone 2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.330	n	II .	n	n	ti	ti	
Indeno (1,2,3-cd) pyrene Isophorone 2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.500	n	n	"	"	H	n	ŕ
Isophorone 2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.330		tı	17	n	•	11	
2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.330	n	"	н	n	*1	H	
2-Methylnaphthalene 2-Methylphenol 3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.330	rı	,,	n	11	••	n	1
3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.330	**	ħ	n	11	"	n	
3 & 4-Methylphenol Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.330	n	"	n	ħ	**	n	1
Naphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.330	**	n	n	n	ii ii	n	, — , İ
2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.330	**	n	Ħ	n	n	n	(}
4-Nitroaniline Nitrobenzene 2-Nitrophenol	ND	0.500	**	h	tt	'n	n	H	, , ,
Nitrobenzene 2-Nitrophenol	ND	0.500	н	n	n	11	n	n	
2-Nitrophenol	ND	0.500	**	n	11	n	11	n	
-	ND	0.330	**	II	*1	n	n	**	
-	ND	0.330	19	Ħ	н	tı	Ħ	**	
4-Nitrophenol	ND	0.500	11	n	n	11	**	Ħ	
N-Nitrosodiphenylamine	ND	0.330	11	u	**	*1	**	H	
N-Nitrosodi-n-propylamine	ND	0.330	n	11	n	**	**	n	
Pentachlorophenol	ND	0.500	n	ŧı	11	71	tr	n	. 1
Phenanthrene	ND	0.330	н	**	H	h	tr .	tt	١
Phenol	ND	0.330	Ħ	**	19	*	17	"	
Pyrene	ND	0.330	n	**	"	h	H	Ħ	
1,2,4-Trichlorobenzene	ND	0.330	n	**	17	11	tr .		
2,4,5-Trichlorophenol	ND	0.330	H	**	"	n	n	n	
2,4,6-Trichlorophenol	ND	0.330	II .	**	n	17	n	Ħ	(
Surrogate: 2-FP	50.8 % 10	0-123			"	"	"	"	
Surrogate: Phenol-d6	73.8 % 10	0-130			" , .	"	**	"	i
Surrogate: 2,4,6-TBP	31.5 % 10	0-131			"	"	•	"	
Surrogate: Nitrobenzene-d5		0-126			"	"	"	"	f I
Surrogate: 2-FBP		4-125			"	"	"	"	1
Surrogate: p-Terphenyl-d14		5-135			"	,,	,,	"	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

	Rep	orting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-25 (B0K0613-31) Soil	Sampled: 11/22/00 13:47	Receive	ed: 11/22/00	16:20			-		
Acenaphthene	ND	0.330	mg/kg dry	-	0L05025	12/05/00	12/07/00	EPA 8270C	
Acenaphthylene	ND	0.330	, n	n	n	u	n	н	
Aniline	ND	0.330	ir .	11	n	n	lt .	Ħ	
Anthracene	ND	0.330	**	n	11	н	11	. "	
Benzoic Acid	ND	1.00	11	"	**	17	11	n	
Benzo (a) anthracene	ND	0.330	11	"	n		11	n	
Benzo (b) fluoranthene	ND	0.330	n	h	n	"	н	n	
Benzo (k) fluoranthene	ND	0.330	n	n		11	n	n	
Benzo (ghi) perylene	ND	0.330	n	"	**	**	n	n	
Benzo (a) pyrene	ND	0.330	11	11	,,	n	11	O	
Benzyl alcohol	ND	0.330	11	**	n		11	tr	
Bis(2-chloroethoxy)methane	ND	0.330	h	H	11	ti .	н	II .	
Bis(2-chloroethyl)ether	ND	0.330	n	11	D.	n	n	n	
2-chloroisopropyl)ether	ND	0.330	u	ti	**	11	н	II	
2-ethylhexyl)phthalate	. ND	0.330	11	11	**	n	Ħ	Ħ	
4-Bromophenyl phenyl ether	ND	0.330	n	H	*1	n	п	11	
Butyl benzyl phthalate	ND	0.330	n	н	n	11	tr.	n	
Carbazole	ND	0.330	IT	II.	n	"	n	и	
4-Chloroaniline	ND	0.500	11	17	11	n	11	H	
2-Chloronaphthalene	ND	0.330	,,	"	n	Ħ	n	н	
4-Chloro-3-methylphenol	ND	0.330		h	Ħ	11	Ħ	н	
2-Chlorophenol	ND	0.330	v	tr	n	н	11	Ħ	
4-Chlorophenyl phenyl ether	ND	0.330	**	n	11	н	11	ti	
Chrysene	ND	0.330	н	n .	n	11	ıı	н	
Dibenz (a,h) anthracene	ND	0.330	tr	'n	D	**	D	Ħ	
Dibenzofuran	ND	0.330	ŧŧ	D	U	н	U	tr	
Di-n-butyl phthalate	ND	0.330	11	**	u	n	**	11	
1,3-Dichlorobenzene	ND	0.330	n	n	17	ŧ	H	11	
1,4-Dichlorobenzene	ND	0.330	n	n	Ħ	**	n	n	
1,2-Dichlorobenzene	ND	0.330	н	H	n	н	n	n	
3,3'-Dichlorobenzidine	ND	5.00	n	n	n	11	71	"	
2,4-Dichlorophenol	ND	0.330	17	17	11	n	11		
Diethyl phthalate	ND	0.330	"	n	11	n	H	н	
2,4-Dimethylphenol	ND	0.330	н	11	11	11	n	n	
Dimethyl phthalate	ND	0.330	ıı	H	n	h	Ħ	n .	
4,6-Dinitro-2-methylphenol	ND	0.500	Ħ	tr	н	'n	11	n ·	
2,4-Dinitrophenol	ND	0.500	11	11	**	n	н	в	
2,4-Dinitrotoluene	ND	0.500	ņ	11	"	11	n.	n	

th Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project Manager



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Portland

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541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

Bothell WA, 98011

Project: West Commodore Way Phase II 12100 NE 195th Street

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C North Creek Analytical - Bothell

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-25 (B0K0613-31) Soil	Sampled: 11/22/00 13:47	Receiv	ed: 11/22/00	16:20				f	
2,6-Dinitrotoluene	ND	0.500	mg/kg dry	1	0L05025	12/05/00	12/07/00	EPA 8270C	
Di-n-octyl phthalate	ND	0.330	n	н	*1	H	**	н	
Fluoranthene	ND	0.330	n	11	•	*1	h	1 **	
Fluorene	ND	0.330	11	n	н	Ħ		IT	
Hexachlorobenzene	ND	0.330	n	u	**	**	u	n	
Hexachlorobutadiene	ND	0.330	n	tı) t	n	11	n	
Hexachlorocyclopentadiene	ND	0.500	11	"		n	**	ı n	
Hexachloroethane	ND	0.330	n	**	n	**	11	, н	•
Indeno (1,2,3-cd) pyrene	ND	0.330	**	**	"	"	**	M	
Isophorone	ND	0.330	**	n	ŧ	n	W	n	
2-Methylnaphthalene	ND	0.330	11	h	ี ข	n	11	n	
2-Methylphenol	ND	0.330	n	**	h	u	Ħ	" н	
3 & 4-Methylphenol	ND	0.330	**	n	н	ii .	н	н	\
Naphthalene	ND	0.330	н	n	n	11	н	n	,
2-Nitroaniline	ND	0.500	**	н	н	n	Ħ	, 1	\ \
3-Nitroaniline	ND	0.500	11	17	**		н	1 4	
4-Nitroaniline	ND	0.500	ti	n	**	Ħ	P	n	
Nitrobenzene	ND	0.330	н	n	Ħ	11	н	п	
2-Nitrophenol	ND	0.330	n	n	**	n	**	٠.	
4-Nitrophenol	ND	0.500	n	n	n	11	н	n	
N-Nitrosodiphenylamine	ND	0.330	11	**	n	H	17	, "	
N-Nitrosodi-n-propylamine	ND	0.330	11	Ħ	H	н	**	n	
Pentachlorophenol	ND	0.500	n	n	n	H	**	1 17	
Phenanthrene	ND	0.330	11	11	n	b	**	11	
Phenol	ND	0.330	11	31	"	11	u	17	
Pyrene	ND	0.330	, n	Ħ	n	n		11	
1,2,4-Trichlorobenzene	ND	0.330	11	Ħ	H	11		**	
2,4,5-Trichlorophenol	ND	0.330	U	Ħ	n	D	ч	n	
2,4,6-Trichlorophenol	ND	0.330	17	**	u	n	u	19	
Surrogate: 2-FP	43.9 % 10	0-123		_	"	"	" "	"	
Surrogate: Phenol-d6	74.9 % 10	0-130			"	"	"	,,	
Surrogate: 2,4,6-TBP	23.7 % 10	0-131			"	"	,,	"	
Surrogate: Nitrobenzene-d5	87.7 %	0-126			"	"	n	"	
Surrogate: 2-FBP		4-125			"	"	"	"	
Surrogate: p-Terphenyl-d14		5-135			"	"	"	. "	
	· •								

North Creek Analytical - Bothell

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North Creek Analytical, Inc. Page 106 of 13 **Environmental Laboratory Network**



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/08/00 15:15

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

		porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-31-2 (B0K0613-01) Soil	Sampled: 11/22/00 08:18	Received:	11/22/00	16:20					
Dry Weight	78.8	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-31-5 (B0K0613-02) Soil	Sampled: 11/22/00 08:23	Received:	11/22/00	16:20					
Dry Weight	79.7	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-31-10 (B0K0613-03) Soil	Sampled: 11/22/00 08:30	Received	d: 11/22/0	0 16:20					
Dry Weight	85.5	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-31-15 (B0K0613-04) Soil	Sampled: 11/22/00 08:35	Received	d: 11/22/0	0 16:20					
Dry Weight	91.5	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-31-20 (B0K0613-05) Soil	Sampled: 11/22/00 08:40	Received	d: 11/22/0	0 16:20					
Dry Weight	88.8	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-31-25 (B0K0613-06) Soil	Sampled: 11/22/00 08:45	Received	d: 11/22/0	0 16:20					
· Weight	85.9	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
32-2 (B0K0613-07) Soil	Sampled: 11/22/00 09:50	Received:	11/22/00	16:20					
Dry Weight	87.0	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-32-5 (B0K0613-08) Soil	Sampled: 11/22/00 09:54	Received:	11/22/00	16:20					
Dry Weight	84.0	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-32-10 (B0K0613-09) Soil	Sampled: 11/22/00 10:02	Received	3: 11/22/0	0 16:20					
Dry Weight	81.1	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-32-15 (B0K0613-10) Soil	Sampled: 11/22/00 10:10	Receive	d: 11/22/00	16:20					
Dry Weight	90.4	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-32-20 (B0K0613-11) Soil	Sampled: 11/22/00 10:15	Receive	d: 11/22/00	16:20				_	
Dry Weight	90.9	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	,
SB-32-25 (B0K0613-12) Soil	Sampled: 11/22/00 10:20	Receive	d: 11/22/00	16:20	<u></u>				
Dry Weight	84.2	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	į
SB-42-2 (B0K0613-13) Soil	Sampled: 11/22/00 08:12	Received	: 11/22/00	16:20					'
Dry Weight	85.0	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-42-5 (B0K0613-14) Soil	Sampled: 11/22/00 08:22	Received	: 11/22/00	16:20				•	Ĺ
Dry Weight	79.6	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-42-10 (B0K0613-15) Soil	Sampled: 11/22/00 08:28	Receive	d: 11/22/00	16:20					
Dry Weight	79.4	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	/ L 4
SB-39-2 (B0K0613-16) Soil	Sampled: 11/22/00 10:15	Received	: 11/22/00	16:20					<u>```</u> -
Dry Weight	79.7	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-39-5 (B0K0613-17) Soil	Sampled: 11/22/00 10:23	Received	: 11/22/00	16:20					
Dry Weight	83.5	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	-
SB-39-10 (B0K0613-18) Soil	Sampled: 11/22/00 10:30	Receive	d: 11/22/00	16:20			<u> </u>		
Dry Weight	80.7	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Project Manager: Bryan Graham Bothell WA, 98011

. 12/08/00 15:15

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-39-15 (B0K0613-19) Soil	Sampled: 11/22/00 10:33	Receive	d: 11/22/0	0 16:20					
Dry Weight	80.6	1.00	%	1	0K30038	11/30/00	12/01/00	BSOPSPL003R07	
SB-33-2 (B0K0613-20) Soil	Sampled: 11/22/00 11:38	Received	: 11/22/00	16:20					
Dry Weight	82.7	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	
SB-33-5 (B0K0613-21) Soil	Sampled: 11/22/00 11:44	Received	: 11/22/00	16:20					
Dry Weight	88.7	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	
SB-33-10 (B0K0613-22) Soil	Sampled: 11/22/00 11:50	Receive	d: 11/22/0	0 16:20					
Dry Weight	87.1	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	
SB-33-15 (B0K0613-23) Soil	Sampled: 11/22/00 11:55	Receive	d: 11/22/0	0 16:20					
Dry Weight	80.8	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	
SB-33-20 (B0K0613-24) Soil	Sampled: 11/22/00 12:00	Receive	d: 11/22/0	0 16:20					
Weight	85.0	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	
ان 33-25 (B0K0613-25) Soil	Sampled: 11/22/00 12:05	Received	d: 11/22/0	0 16:20					
Dry Weight	81.2	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	
SB-34-2 (B0K0613-26) Soil	Sampled: 11/22/00 13:22	Received	: 11/22/00	16:20					
Dry Weight	85.5	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	
SB-34-5 (B0K0613-27) Soil	Sampled: 11/22/00 13:27	Received	: 11/22/00	16:20					
Dry Weight	89.0	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	_

th Creek Analytical - Bothell

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Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Project Number: n/a

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	porting							٠,
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-34-10 (B0K0613-28) Soil	Sampled: 11/22/00 13:32	Received:	: 11/22/0	0 16:20		_		1	-1
Dry Weight	87.5	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	
SB-34-15 (B0K0613-29) Soil	Sampled: 11/22/00 13:37	Received:	11/22/0	0 16:20	1_				<u> </u>
Dry Weight	91.7	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	, i_
SB-34-20 (B0K0613-30) Soil	Sampled: 11/22/00 13:42	Received:	: 11/22/0	0 16:20					
Dry Weight	90.9	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	1
SB-34-25 (B0K0613-31) Soil	Sampled: 11/22/00 13:47	Received:	11/22/0	0 16:20					
Dry Weight	82.0	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	1
SB-35-2 (B0K0613-32) Soil	Sampled: 11/22/00 14:30	Received:	11/22/00	16:20					
Dry Weight	78.3	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	_
SB-35-5 (B0K0613-33) Soil	Sampled: 11/22/00 14:35	Received:	11/22/00	16:20	·				
Dry Weight	84.1	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	()-
SB-35-10 (B0K0613-34) Soil	Sampled: 11/22/00 14:40	Received	: 11/22/0	0 16:20			_		
Dry Weight	73.3	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	i
SB-35-15 (B0K0613-35) Soil	Sampled: 11/22/00 14:45	Received	: 11/22/0	0 16:20					
Dry Weight	88.9	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	
SB-35-20 (B0K0613-36) Soil	Sampled: 11/22/00 14:50	Received	: 11/22/0	00 16:20					
Dry Weight	80.5	1.00	%	1	0K30039	11/30/00	12/01/00	BSOPSPL003R07	
									-

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project Number: n/a

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

,		Re	porting		-					
	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
-	SB-35-25 (B0K0613-37) Soil	Sampled: 11/22/00 14:55	Receive	d: 11/22/00	16:20					
ź	Dry Weight	85.1	1.00	%		0K30039	11/30/00	12/01/00	BSOPSPL003R07	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K29024: Prepared 11/29/0	0 Using E	PA 5030B	(MeOH)		,					
Blank (0K29024-BLK1)				_				•		
Gasoline Range Hydrocarbons	ND	5.00	mg/kg wet							
Benzene	ND	0.0500	11							
Toluene	ND	0.0500	n							
Ethylbenzene	ND	0.0500	n							
Xylenes (total)	ND	0.100	n							
Surrogate: 4-BFB (FID)	2.83		"	4.00		70.7	50-150			
Surrogate: 4-BFB (PID)	3.27		"	4.00		81.7	50-150			
LCS (0K29024-BS1)										
Gasoline Range Hydrocarbons	25.9	5.00	mg/kg wet	25.0		104	70-130			
Surrogate: 4-BFB (FID)	3.91		"	4.00		97.8	50-150	•		
Duplicate (0K29024-DUP1)					Source: 1	B0K0613-	04			(
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND	_		1.06	50	
Surrogate: 4-BFB (FID)	3.30		"	4.37		75.5	50-150			
Duplicate (0K29024-DUP2)					Source: 1	B0K0613-	05			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND			46.5	50	
Surrogate: 4-BFB (FID)	3.36		"	4.50		74.7	50-150			:
Matrix Spike (0K29024-MS1)					Source: 1	B0K0613-	03			
Benzene	0.551	0.0500	mg/kg dry	0.585	ND	92.9	60-140			
Toluene	0.579	0.0500	#	0.585	ND	95.2	60-140	•	7	
Ethylbenzene	0.569	0.0500	Ħ	0.585	ND	95.4	60-140			
Xylenes (total)	1.73	0.100	Ħ	1.75	ND	96.2	60-140			
Surrogate: 4-BFB (PID)	3.99	,	"	4.68	•	85.3	50-150		-	
Matrix Spike Dup (0K29024-MSD1)			•		Source: 1	B0K0613-	03			
Benzene	0.603	0.0500	mg/kg dry	0.585	ND	102	60-140	9.01	20	
Toluene	0.608	0.0500	11	0.585	ND	100	60-140	4.89	20	
Ethylbenzene	0.570	0.0500	ti	0.585	ND	95.6	60-140	0.176	20	
Xylenes (total)	1.74	0.100	#1	1.75	ND	96.8	60-140	0.576	20	
Surrogate: 4-BFB (PID)	3.93		n	4.68		84.0	50-150			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported: 12/08/00 15:15 Project Manager: Bryan Graham

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K29025: Prepared 11/29/0	00 Using H	PA 5030B	(MeOH)				_			
Blank (0K29025-BLK1)										
Gasoline Range Hydrocarbons	ND	5.00	mg/kg wet							
Benzene	ND	0.0500	11							
Toluene	ND	0.0500	n							
Ethylbenzene	ND	0.0500	n							
Xylenes (total)	ND	0.100	n							
Surrogate: 4-BFB (FID)	3.83	_	"	4.00		95.7	50-150		_	
Surrogate: 4-BFB (PID)	4.23		"	4.00		106	50-150			
LCS (0K29025-BS1)										
Gasoline Range Hydrocarbons	21.7	5.00	mg/kg wet	25.0		86.8	70-130			
Surrogate: 4-BFB (FID)	4.41			4.00		110	50-150		· -	
olicate (0K29025-DUP1)					Source: I	B0K0613-	23			
line Range Hydrocarbons	ND	5.00	mg/kg dry		ND	•		40.2	50	
Surrogate: 4-BFB (FID)	4,56			4.95		92.1	50-150			
Duplicate (0K29025-DUP2)					Source: I	B0K0613-	24			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND			47.0	50	
Surrogate: 4-BFB (FID)	4.48		"	4.70		95.3	50-150	,		
Matrix Spike (0K29025-MS1)					Source: 1	B0K0613-	22			
Benzene	0.523	0.0500	mg/kg dry	0.574	ND	87.6	60-140			
Toluene	0.533	0.0500	11	0.574	ND	88.6	60-140			
Ethylbenzene	0.546	0.0500	**	0.574	ND	94.4	60-140			
Xylenes (total)	1.64	0.100	h	1.72	ND	92.6	60-140			
Surrogate: 4-BFB (FID)	4.37		"	4.59		95.2	50-150			
Surrogate: 4-BFB (PID)	4.84		"	4.59		105	50-150			

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

]			Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
Analyte		Result	Limit	Omis	TCAC!	- Kesun	70ICLC	Lillins	МЪ	Lillit	Notes
Batch 0K29025:	Prepared 11/29/00	Using El	PA 5030B	(MeOH)					<u>'</u>		
Matrix Spike Dup (0K29025-MSD1)	_				Source: I	30K0613-	22			
Benzene		0.569	0.0500	mg/kg dry	0.574	ND	95.7	60-140	8.42	20 .	
Toluene		0.579	0.0500	n	0.574	ND	96.6	60-140	8.27	20	
Ethylbenzene		0.591	0.0500	II	0.574	ND	102	60-140	7.92	20	
Xylenes (total)		1.76	0.100	ti	1.72	ND	99.5	60-140	7.06	20	
Surrogate: 4-BFB (FIL))	4.55		"	4.59		99.1	50-150			
Surrogate: 4-BFB (PIL))	4.98		"	4.59		108	50-150			

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0K29005: Prepared 11/29/00		EPA 3550B				-	_			
Blank (0K29005-BLK1)		<u> </u>			<u>.</u>					
Diesel Range Hydrocarbons	ND	10.0	mg/kg wet			_ 				
Lube Oil Range Hydrocarbons	ND	25.0	"							
Surrogate: 2-FBP	9.46	· ·	n	10.7		88.4	50-150			
Surrogate: Octacosane	9.05		"	10.7		84.6	50-150			
LCS (0K29005-BS1)										
Diesel Range Hydrocarbons	70.1	10.0	mg/kg wet	66.7	<u> </u>	105	60-140	-		
Surrogate: 2-FBP	8.98			10.7		83.9	50-150			
Surrogate: 2-rbr Surrogate: Octacosane	9.66		"	10.7		90.3	50-150			
					Source: 1	B0K0574-	27			
Duplicate (0K29005-DUP1) Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND				50	
Oil Range Hydrocarbons	ND	25.0	ne ne ori		ND			18.1	50	
				13.2		83.3	50-150			
our ogate: 2-FBP	11.0 10.9		,,	13.2 13.2		82.6	50-150 50-150			
Surrogate: Octacosane	10.9			13.2						
Duplicate (0K29005-DUP2)						B0K0576-	08			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND				50	
Lube Oil Range Hydrocarbons	ND	25.0	n		ND			23.1	50	
Surrogate: 2-FBP	9.75		"	13.2	-	73.9	50-150			
Surrogate: Octacosane	11.5	•	"	13.2		87.]	50-150			
Batch 0K29028: Prepared 11/29/00	Using	EPA 3550B	3							
Blank (0K29028-BLK1)										
Diesel Range Hydrocarbons	ND	10.0	mg/kg wet							
Lube Oil Range Hydrocarbons	ND	25.0	H							
Surrogate: 2-FBP	9.17		"	10.7		85.7	50-150			
Surrogate: Octacosane	8.58		"	10.7		80.2	50-150			

h Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

Project Number: n/a

Reported:

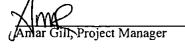
12/08/00 15:15

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

]	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K29028: Prepared 11/29/00	Using El	PA 3550B	}					-	-	
LCS (0K29028-BS1)	_	<u> </u>		•						
Diesel Range Hydrocarbons	55.6	10.0	mg/kg wet	66.7		83.4	60-140			
Surrogate: 2-FBP	7.47		, ,,	10.7	_	69.8	50-150			·
Duplicate (0K29028-DUP1)					Source: I	30K0613-	05			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND	<u> </u>			50	
Lube Oil Range Hydrocarbons	ND	25.0	u		ND				50	
Surrogate: 2-FBP	9.04		n	12.0		75.3	50-150		-	
Surrogate: Octacosane	9.69		n	12.0	•	80.7	50-150			
Duplicate (0K29028-DUP2)					Source: I	30K0613-	10			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND				50	
Lube Oil Range Hydrocarbons	ND	25.0	11		ND			7.46	50	
Surrogate: 2-FBP	8.87		"	11.8		75.2	50-150			
Surrogate: Octacosane	10.1		"	11.8		85.6	50-150		•	'
Batch 0K30012: Prepared 11/30/00	Using El	PA 3550B	;							
Blank (0K30012-BLK1)	•								-	
Diesel Range Hydrocarbons	ND	10.0	mg/kg wet		`					
Lube Oil Range Hydrocarbons	ND	25.0	n							
Surrogate: 2-FBP	8.31		"	10.7		77.7	50-150			
Surrogate: Octacosane	8.79		n	10.7		82.1	50-150			
LCS (0K30012-BS1)										
Diesel Range Hydrocarbons	63.8	10.0	mg/kg wet	66.7		95.7	60-140			
Surrogate: 2-FBP				_						

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Bothell WA, 98011

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

	R	eporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K30012: Prepared 11/30/00	Using EP.	A 3550B								
Duplicate (0K30012-DUP1)					Source: I	B0K0613-	19			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND				50	
Lube Oil Range Hydrocarbons	ND	25.0	u		ND.			25.0	50	
Surrogale: 2-FBP	10.2		<i>"</i>	13.2		77.3	50-150			
Surrogate: Octacosane	10.7		,	13.2		81.1	50-150			
Duplicate (0K30012-DUP2)					Source: I	30K0613-	24			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND				50	
Lube Oil Range Hydrocarbons	ND	25.0	11		ND			31.5	50	
Surrogate: 2-FBP	9.55		"	12.5		76.4	50-150			
Surrogate: Octacosane	10.9		"	12.5		87.2	50-150			
Batch 0K30024: Prepared 11/30/00	Using EP	A 3550B	_				_	_	_	
ink (0K30024-BLK1)										_
Diesel Range Hydrocarbons	ND	10.0	mg/kg wet							
Lube Oil Range Hydrocarbons	ND	25.0	17							
Surrogate: 2-FBP	7.59		"	10.7		70.9	50-150			
Surrogate: Octacosane	9.04		"	10.7		84.5	50-150			
LCS (0K30024-BS1)										
Diesel Range Hydrocarbons	60.3	10.0	mg/kg wet	66.7		90.4	60-140			
Surrogate: 2-FBP	9.02		"	10.7		84.3	50-150		_	
Duplicate (0K30024-DUP1)	•				Source: I	30K0616-	01			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND			4.25	50	
Lube Oil Range Hydrocarbons	ND	25.0	n		ND			12.7	50	
Surrogate: 2-FBP	9.74		"	12.0	·	81.2	50-150			_
Surrogate: Octacosane	11.4		" -	12.0		95.0	50-150			

th Creek Analytical - Bothell

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Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L01039:	Prepared 12/01/00	Using El	PA 3050B						ı		
Blank (0L01039-B)	LK1)										
Lead		ND	0.500	mg/kg wet	-						
LCS (0L01039-BS)	1)										
Lead		26.5	0.500	mg/kg wet	25.0		106	80-120			
Matrix Spike (0L0	1039-MS1)					Source: 1	B0K0574-	19			
Lead	-	22.6	0.331	mg/kg dry	19.7	3.86	95.1	70-130			
Matrix Spike Dup	(0L01039-MSD1)					Source: 1	B0K0574-	19			
Lead	·	22.0	0.331	mg/kg dry	19.7	3.86	92.1	70-130	2.69	20	
Batch 0L02017:	Prepared 12/02/00	Using El	PA 3050B						_		
Blank (0L02017-B	LK1)		_								-
Antimony		ND	0.500	mg/kg wet							
Arsenic		ND	0.500	n							_
Beryllium		ND	0.500	н							
Cadmium		ND	0.500	n	-						
Chromium		ND	0.500	ii .							
Copper		ND	0.500	n							
Lead		ND	0.500	n							
Nickel		ND	0.500	H							
Selenium		ND	0.500	11							
Silver		ND	0.500	н '							
Thallium		ND	0.500	H							
Zinc		ND	5.00	**							

North Creek Analytical - Bothell

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North Creek Analytical, Inc. Page 118 of 13 **Environmental Laboratory Network**



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L02017:	Prepared 12/02/00	_	PA 3050B			· 					
		001115	-					<u>-</u>			-
LCS (0L02017-BS1)		24.5	0.500	//ca 22/02	25.0		98.0	80-120			
Antimony		24.5 24.4	0.500	mg/kg wet	25.0		97.6	70-130			
Arsenic		24.4	0.500	h	25.0		99.2	80-120			
Beryllium		24.8 24.3	0.500	H	25.0		99.2 97.2	70-130			
Cadmium		24.3 25.4	0.500	h	25.0		102	80-120			
Chromium		23.4	0.500	,,	25.0		99.6	80-120			
Copper		24.9	0.500	**	25.0		97.2	80-120			
Lead		24.5	0.500		25.0		98.4	80-120			
Nickel		24.0 24.1	0.500	**	25.0		96.4	70-130			
Selenium		24.7	0.500	н	25.0		98.8	40-130			
Silver			0.500	17	25.0		97.6	80-120			
Thallium		24.4 24.6	5.00	n	25.0		98.4	70-130			
•		24.0	3.00								
Matrix Spike (0L02	017-MS1)					Source: I					
Antimony		ND	0.365	mg/kg dry	21.2	ND	1.27	70-130		_	Q-1:
Arsenic		21.6	0.365	11	21.2	2.82	88.6	70-130			
Beryllium		21.1	0.365	•	21.2	ND	98.5	70-130			
Cadmium		20.6	0.365	"	21.2	ND	95.6	70-130			
Chromium		58.0	0.365	n	21.2	34.9	109	70-130			
Copper		35.4	0.365	n	21.2	15.9	92.0	70-130			
Lead		22.8	0.365	n	21.2	2.30	96.7	70-130			
Nickel		61.2	0.365	н	21.2	41.8	91.5	70-130			
Selenium		19.4	0.365	n	21.2	ND	90.1	70-130			
Silver		17.8	0.365	n	21.2	ND	83.8	40-130			
Thallium		20.7	0.365	n	21.2	ND	97.2	70-130			
Zinc		54.8	3.65	II	21.2	35.1	92.9	70-130			
Matrix Spike Dup (0L02017-MSD1)					Source: I	B0K0576-	10			
Antimony		ND	0.352	mg/kg dry	20.4	ND	1.00	70-130	27.5	20	Q-1
Arsenic		20.7	0.352	n	20.4	2.82	87.6	70-130	4.26	20	
Beryllium		19.9	0.352	н	20.4	ND	96.5	70-130	5.85	20	
Cadmium		19.5	0.352	n .	20.4	ND	94.0	70-130	5.49	20	
Chromium		55.2	0.352	n	20.4	34.9	99.5	70-130	4.95	20	
Copper		34.3	0.352	11	20.4	15.9	90.2	70-130	3.16	20	
Lead		21.9	0.352	**	20.4	2.30	96.1	70-130	4.03	20	

th Creek Analytical - Bothell

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Portland

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L02017: Prepared 12/02/00	Using 1	EPA 3050B								
Matrix Spike Dup (0L02017-MSD1)					Source: I	B0 K0576 -	10			•
Nickel	56.7	0.352	mg/kg dry	20.4	41.8	73.0	70-130	7.63	20	
Selenium	18.3	0.352	II .	20.4	ND	88.3	70-130	5.84	20	
Silver	16.9	0.352	n	20.4	ND	82.7	40-130	5.19	50	
Thallium	19.9	0.352	**	20.4	ND	97.1	70-130	3.94	. 20	
Zinc	54.1	3.52	11	20.4	35.1	93.1	70-130	1.29	20	
Post Spike (0L02017-PS1)					Source: I	B0K0576-	10			
Antimony	210	1.77	mg/kg dry	206	ND	102	70-130			
Batch 0L02018: Prepared 12/02/00	Using 1	EPA 3050B								
DI 1 (01 04010 DI 1/1)				-			-		_	

Blank (OFOZO18-BPW1)			
Antimony	ND	0.500	mg/kg wet
Arsenic	ND	0.500	11
Beryllium	ND	0.500	н
Cadmium	ND	0.500	h
Chromium	ND	0.500	**
Copper	ND	0.500	
Lead	ND	0.500	**
Nickel	ND	0.500	11
Selenium	ND	0.500	n
Silver	ND	0.500	Ħ
Thallium	ND	0.500	Ħ
Zinc	ND	5.00	n

LCS (0L02018-BS1)

Antimony	24.3	0.500	mg/kg wet	25.0	91.2	80-120	
Arsenic	25.1	0.500	n	25.0	100	70-130	
Beryllium	25.6	0.500	n	25.0	102	80-120	
Cadmium	25.1	0.500	11	25.0	100	70-130	
Chromium	27.5	0.500	11	25.0	110	80-120	
Copper	28.9	0.500	н	25.0	116	80-120	
Lead	25.3	0.500	17	25.0	101	80-120	
Nickel	25.8	0.500	II.	25.0	103	80-120	
Selenium	24.6	0.500	n	25.0	98.4	70-130	
Silver	24.6	0.500	**	25.0	98.4	40-130	

North Creek Analytical - Bothell

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Page 120 of 11 North Creek Analytical, Inc. **Environmental Laboratory Network**



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

	-		Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L02018:	Prepared 12/02/00	Using El	PA 3050B				<u> </u>				
LCS (0L02018-BS)	1)										
Thallium		24.7	0.500	mg/kg wet	25.0		98.8	80-120			
Zinc		28.2	5.00	"	25.0		113	70-130			
Matrix Spike (0L0)	2018-MS1)					Source: I	30K0613-	15			Q-13
Antimony		ND	0.329	mg/kg dry	20.7	ND	0.966	70-130			
Arsenic		21.8	0.329	W	20.7	4.00	86.0	70-130			
Beryllium		20.2	0.329	u	20.7	ND	96.6	70-130			
Cadmium		18.6	0.329	11	20.7	0.586	87.0	70-130			
Chromium		62.4	0.329	11	20.7	43.6	90.8	70-130			
Copper		34.2	0.329	19	20.7	16.1	87.4	70-130			
Lead		20.7	0.329	"	20.7	2.06	90.0	70-130			
, el		57.7	0.329	71	20.7	40.2	84.5	70-130			
n ium		17.8	0.329	n	20.7	ND	86.0	70-130			
Silver		16.2	0.329	n	20.7	ND	78.3	40-130			
Thallium		18.6	0.329	n	20.7	ND	89.6	70-130			
Zinc		50.4	3.29	11	20.7	31.9	89.4	70-130			
Matrix Spike Dup	(0L02018-MSD1)					Source: 1	B0K0613-	15			Q-13
Antimony	<u> </u>	ND	0.347	mg/kg dry	21.9	ND	0.516	70-130	55.6	20	
Arsenic		23.4	0.347	11	21.9	4.00	88.6	70-130	7.08	20	
Beryllium		21.8	0.347	rr .	21.9	ND	98.6	70-130	7.62	20	
Cadmium		20.3	0.347	11	21.9	0.586	90.0	70-130	8.74	20	
Chromium		- 69.7	0.347	n	21.9	43.6	119	70-130	11.1	20	
Copper		39.5	0.347	17	21.9	16.1	107	70-130	14.4	20	
Lead		22.1	0.347	n	21.9	2.06	91.5	70-130	6.54	20	
Nickel		62.2	0.347	D	21.9	40.2	100	70-130	7.51	20	
Selenium		19.8	0.347	н	21.9	ND	90.4	70-130	10.6	20	
Silver		17.3	0.347	**	21.9	ND	79.0	40-130	6.57	50	
Thallium		19.9	0.347	h	21.9	ND	90.7	70-130	6.75	20	
Zinc		52.6	3.47	17	21.9	31.9	94.5	70-130	4.27	20	
2.110		- =									

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L02018:	Prepared 12/02/00	Using El	PA 3050B								
Post Spike (0L0201	18-PS1)	-				Source: I	30K0613-	15			
Antimony		231	1.75	mg/kg dry	220	ND	105	70-130			•
Batch 0L02019:	Prepared 12/02/00	Using El	PA 3050B								
Blank (0L02019-B)	LK1)										
Lead		ND	0.500	mg/kg wet				*			
LCS (0L02019-BS)	1)										
Lead		23.9	0.500	mg/kg wet	25.0		95.6	80-120			
Matrix Spike (0L0	2019-MS1)					Source: 1	B0K0613-	35			
Lead		21.8	0.362	mg/kg dry	20.4	2.68	93.7	70-130			
Matrix Spike Dup	(0L02019-MSD1)					Source: 1	B0K0613-	35			1
Lead		22.1	0.360	mg/kg dry	20.2	2.68	96.1	70-130	1.37	20	
Batch 0L05037:	Prepared 12/05/00	Using El	PA 7471A								
Blank (0L05037-B	LK1)										
Mercury		ND	0.100	mg/kg wet		·					
LCS (0L05037-BS	1)										
Mercury		0.505	0.100	mg/kg wet	0.500		101	80-120			
Matrix Spike (0L0	5037-MS1)					Source: 1	B0K0576-	10			
Mercury		0.663	0.100	mg/kg dry	0.575	ND	100	80-120			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/08/00 15:15

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

³ [Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L05037: Prepared 12/05/00	Using E	PA 7471A							_	·
Matrix Spike Dup (0L05037-MSD1)	_				Source: I	B0K0576-	10			
Mercury	0.654	0.100	mg/kg dry	0.575	ND	98.4	80-120	1.37	20	
Batch 0L07015: Prepared 12/07/00	Using E	PA 7471A								
Blank (0L07015-BLK1)										
Mercury	ND	0.100	mg/kg wet							
LCS (0L07015-BS1)										
Mercury	0.500	0.100	mg/kg wet	0.500		100	80-120			
Matrix Spike (0L07015-MS1)					Source: I	B0K0613-	24			
Mercury	0.629	0.100	mg/kg dry	0.580	ND	102	80-120	·		
trix Spike Dup (0L07015-MSD1)					Source: 1	B0K0613-	24			
cury	0.651	0.100	mg/kg dry	0.584	ND	105	80-120	3.44	20	



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K28037:	Prepared 11/27/00	Using E	PA 5030B	[P/T]					<u>:</u>		
Blank (0K28037-BL)	K1)								i		
Acetone		ND	1.00	mg/kg wet	.,						
Benzene		ND	0.100	ti					1		
Bromobenzene		ND	0.100	н							
Bromochloromethane		ND	0.100	n							
Bromodichloromethane		ND	0.100	Ħ							
Bromoform		ND	0.100	**					,		
Bromomethane		ND	0.100	n							
2-Butanone		ND	1.00	n							
n-Butylbenzene		ND	0.100	11					,		
sec-Butylbenzene		ND	0.100	ti							
tert-Butylbenzene		ND	0.100	n							,**
Carbon disulfide		ND	0.100	P					1		(
Carbon tetrachloride		ND	0.100	11							
Chlorobenzene		ND	0.100	11							
Chloroethane		ND	0.100	ŧı							
Chloroform		ND	0.100	17							
Chloromethane		ND	0.500	n					1		
2-Chlorotoluene		ND	0.100	"							
4-Chlorotoluene		ND	0.100	17							
Dibromochloromethane		ND	0.100	n							
1,2-Dibromo-3-chloropa	ropane	ND	0.500	11					,		
1,2-Dibromoethane		ND	0.100	11							
Dibromomethane		ND	0.100	*1				•			
1,2-Dichlorobenzene		ND	0.100	"					1		
1,3-Dichlorobenzene		ND	0.100	n							
1,4-Dichlorobenzene		ND	0.100	Ħ					1		
Dichlorodifluoromethar	ne .	ND	0.100	**							
1,1-Dichloroethane		ND	0.100	н							
1,2-Dichloroethane		ND	0.100	it							
1,1-Dichloroethene		ND	0.100	11							
cis-1,2-Dichloroethene		ND	0.100	n					ŀ		
trans-1,2-Dichloroethen	e	ND	0.100	n							
1,2-Dichloropropane		ND	0.100	н							
1,3-Dichloropropane		ND	0.100	n							

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

· 		Reporting		Spike	Source	<u> </u>	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K28037: Prepared 11	/27/00 Using El	PA 5030B	[P/T]							
Blank (0K28037-BLK1)										
2,2-Dichloropropane	ND	0.100	mg/kg wet							
1,1-Dichloropropene	ND	001.0	**							
cis-1,3-Dichloropropene	ND	0.100	tt							
trans-1,3-Dichloropropene	ND	0.100	11							
Ethylbenzene	ND	0.100	n							
Hexachlorobutadiene	ND	0.100	II .							
^-Hexanone	ND	1.00	U							
lsopropylbenzene	ND	0.100	n							
p-lsopropyltoluene	ND	0.100	n							
Methylene chloride	ND	1.00	n							
4-Methyl-2-pentanone	ND	1.00	n							
thalene	ND	0.100	11							
pylbenzene	ND	0.100	n							
Styrene	ND	0.100	n							
1,1,1,2-Tetrachloroethane	ND	0.100	u							
1,1,2,2-Tetrachloroethane	ND	0.100	11							
Tetrachloroethene	ND	0.100	n							
Toluene	ND	0.100	11							
1,2,3-Trichlorobenzene	ND	0.100	11							
1,2,4-Trichlorobenzene	ND	0.100	11							
1,1,1-Trichloroethane	ND	0.100	Ħ							
1,1,2-Trichloroethane	ND	0.100	tr							
Trichloroethene	ND	0.100	11							
Trichlorofluoromethane	ND	0.100	н							
1,2,3-Trichloropropane	ND	0.100	h							
1,2,4-Trimethylbenzene	ND	0.100	h							
1,3,5-Trimethylbenzene	ND	0.100	n							
Vinyl chloride	ND	0.100	v							
m,p-Xylene	ND	0.200	n							
o-Xylene	ND	0.100	n							
Surrogate: 1,2-DCA-d4	2.07		n	2.00		103	70-130			
Surrogate: Toluene-d8	1.74		n	2.00		87.0	70-130			
Surrogate: 4-BFB	2.18		"	2.00		109	70-130			

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North Creek Analytical, Inc. Page 125 of 132 **Environmental Laboratory Network**



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K28037:	Prepared 11/27/00	Using I	EPA 5030B	[P/T]							
LCS (0K28037-BS1)									· .		
Benzene		1.03	0.100	mg/kg wet	1.00		103	70-130			
Chlorobenzene		0.880	0.100	17	1.00		88.0	70-130			
1.1-Dichloroethene		0.943	0.100	ti	1.00		94.3	70-130			*
Toluene		0.898	0.100	ı,	1.00		89.8	70-130			
Trichloroethene		0.927	0.100	н	1.00		92.7	70-130			
Surrogate: 1,2-DCA-d4		2.01		"	2.00		100	70-130			
Surrogate: Toluene-d8		1.87		"	2.00		93.5	70-130			
Surrogate: 4-BFB		1.95		"	2.00		97.5	70-130			1
Matrix Spike (0K280	037-MS1)					Source: 1	B0K0613-	-31			!
Benzene		1.20	0.100	mg/kg dry	1.22	ND	98.4	70-130			
Chlorobenzene		0.924	0.100	II	1.22	ND	75.7	70-130			,
1.1-Dichloroethene		1.03	0.100	**	1.22	ND	84.4	70-130			()
Toluene		0.924	0.100	n	1.22	ND	75.7	70-130			T== #
Trichloroethene		1.27	0.100	n	1.22	0.209	87.0	70-130			,
Surrogate: 1,2-DCA-d4		2.80		"	2.44		115	70-130			 -
Surrogate: Toluene-d8		2.06		,,	2.44		84.4	70-130			
Surrogate: 4-BFB		1.95		11	2.44		79.9	70-130			
Matrix Spike Dup ((0K28037-MSD1)					Source:	B0K0613	-31			œ.
Benzene		1.02	0.100	mg/kg dry	1.22	ND	83.6	70-130	16.2	15	Q-07
Chlorobenzene		0.868	0.100	0	1.22	ND	71.1	70-130	6.25	15	(=
1,1-Dichloroethene		0.665	0.100	н	1.22	ND	54.5	70-130	43.1	15	Q -(_
Toluene		0.862	0.100	n	1.22	ND	70.7	70-130	6.94	15	
Trichloroethene		1.19	0.100	n	1.22	0.209	80.4	70-130	6.50	15	-
Surrogate: 1,2-DCA-d4	1	2.95		"	2.44		121	70-130	_		;
Surrogate: Toluene-d8		2.25		n	2.44		92.2	70-130			
Surrogate: 4-BFB		2.11		"	2.44		86.5	70-130			-

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project Number: n/a 12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control North Creek Analytical - Bothell

			Reporting	-	Spike	Source		%REC		RPD	
	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
1	Batch 0L05025: Prepared 12/05/00	Using 1	EPA 3550B								
,	Blank (0L05025-BLK1)										
	Acenaphthene	ND	0.330	mg/kg wet							
	Acenaphthylene	ND	0.330	H							
	Aniline	ND	0.330	n							
	Anthracene	ND	0.330	U							
	Benzoic Acid	ND	1.00	n							
	Benzo (a) anthracene	ND	0.330								
	Benzo (b) fluoranthene	ND	0.330	n							
t	Benzo (k) fluoranthene	ND	0.330	**							
ŧ	Benzo (ghi) perylene	ND	0.330	11							
	Benzo (a) pyrene	ND	0.330	·							
	Benzyl alcohol	ND	0.330	h	_	_					
	(2-chloroethoxy)methane	ND	0.330	11		•					
7	(2-chloroethyl)ether	ND	0.330	r							
	Bis(2-chloroisopropyl)ether	ND	0.330	II							
	Bis(2-ethylhexyl)phthalate	ND	0.330	*1							
	4-Bromophenyl phenyl ether	ND	0.330	**							
s	Butyl benzyl phthalate	ND	0.330	U							
	Carbazole	ND	0.330	"							
	4-Chloroaniline	ND	0.500	n ,							
	2-Chloronaphthalene	ND	0.330	n							
Ì	4-Chloro-3-methylphenol	ND	0.330	n							
r	2-Chlorophenol	ND	0.330	H							
	4-Chlorophenyl phenyl ether	ND	0.330	n							
ŧ	Chrysene	ND	0.330	11							
	Dibenz (a,h) anthracene	ND	0.330	*							
	Dibenzofuran	ND	0.330	"							
	Di-n-butyl phthalate	ND	0.330	ч							
ì	1,3-Dichlorobenzene	ND	0.330	"							
	1,4-Dichlorobenzene	ND	0.330	H							
ì	1,2-Dichlorobenzene	ND	0.330	U							
	3,3'-Dichlorobenzidine	ND	5.00	н							
	2,4-Dichlorophenol	ND	0.330	11							
ŀ	Diethyl phthalate	ND	0.330	ıı							
ŀ	2,4-Dimethylphenol	ND	0.330	*1							
1											

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Bend

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control North Creek Analytical - Bothell

Barch 0L05025: Prepared 12/05/00 Using EPA 3550B Blank (0L05025-BLXT)				Reporting		Spike	Source		%REC		RPD	
Dimethyl phthalate	Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Dimethyl phthalate ND 0.330 mg/kg wet 4.6-Dinitro-2-methylphenol ND 0.500 " 2,4-Dinitrotolure ND 0.500 " 2,4-Dinitrotolure ND 0.500 " 2,6-Dinitrotolure ND 0.300 " 2,6-Dinitrotolure ND 0.330 " Pluoranthere ND 0.330 " Pluoranthere ND 0.330 " Pluoranthere ND 0.330 " Hexachlorobuxadiene ND 0.330 " Hexachlorobuxadiene ND 0.330 " Hexachlorochane ND 0.330 " Hexachlorochane ND 0.330 " Indeno (1,2,3-ed) pyrne ND 0.330 " Isophorone ND 0.330 " Subhylphanilalene ND 0.330 " 2-Methylphenol ND 0.330 " Ashghtalaere ND 0.330	Batch 0L05025:	Prepared 12/05/00	Using E	PA 3550B							_	
4.6-Dinitro-2-methylphenol ND 0.500 " 2.4-Dinitrophenol ND 0.500 " 2.4-Dinitrooluene ND 0.500 " 2.6-Dinitrooluene ND 0.500 " Di-n-octyl phthalate ND 0.330 " Fluorene ND 0.330 " Hexachlorobenzene ND 0.330 " Hexachlorobetane ND 0.330 " Hexachlorocyclopentadiene ND 0.330 " Lexachlorocyclopentadiene ND 0.330 " Lexachlorocyclopentadiene ND 0.330 " <td>Blank (0L05025-BL</td> <td>K1)</td> <td></td>	Blank (0L05025-BL	K1)										
2,4-Dinitrophenol ND 0.500 * 2,4-Dinitrotoluene ND 0.500 * Di-n-octyl phithalate ND 0.330 * Fluoranchene ND 0.330 * Fluoranchene ND 0.330 * Hexachlorobenzene ND 0.330 * Hexachlorobenzene ND 0.330 * Hexachlorocyclopentaldiene ND 0.500 * Hexachlorocyclopentaldiene ND 0.500 * Hexachlorocyclopentaldiene ND 0.330 * Hexachlorochane ND 0.330 * Indeno (1,2,3-cd) pyrene ND 0.330 * Isophorone ND 0.330 * 2-Methylaphthalene ND 0.330 * 2-Methylaphthalene ND 0.330 * 2-Methylaphthalene ND 0.330 * 2-Methylaphthalene ND 0.330 * 2-Nitrosniline	Dimethyl phthalate		ND	0.330	mg/kg wet							
2,4-Dinitrololuene ND 0.500 " 2,6-Dinitrololuene ND 0.500 " Di-n-octyl phthalate ND 0.330 " Fluorene ND 0.330 " Hexachlorobenzene ND 0.330 " Hexachlorocyclopentadiene ND 0.330 " 2-Methylinghame ND 0.330 " Naphthalene ND 0.500 "	4,6-Dinitro-2-methylph	enol	ND	0.500	11							
2.6-Dinitrotoluene ND 0.500 " Di-n-octyl phthalate ND 0.330 " Fluoranthene ND 0.330 " Hexachlorobenzene ND 0.330 " Hexachlorocyclopentadiene ND 0.330 " Indeno (1,2,3-cd) pyrene ND 0.330 " Isophorone ND 0.330 " 2-Methylphanlalene ND 0.330 " 2-Methylphenol ND 0.330 " 3-Authylphenol ND 0.330 " 3-Nitroaniline ND 0.500 " 3-Nitroaniline ND 0.500 " Nitrobenzene ND 0.330 " 2-Nitrophenol <	2,4-Dinitrophenol		ND	0.500	n							
Description Description	2,4-Dinitrotoluene		ND	0.500	l7							
Fluoranthene ND	2,6-Dinitrotoluene		ND	0.500	n							
Fluorene ND 0.330 " Hexachloroburadiene ND 0.330 " Hexachloroburadiene ND 0.330 " Hexachlorocyclopentadiene ND 0.500 " Hexachlorochtane ND 0.330 "	Di-n-octyl phthalate		ND	0.330	17							
Hexachlorobenzene ND 0.330 "	Fluoranthene		ND	0.330	11							
Hexachlorobutadiene ND 0.330 " Hexachlorocyclopentadiene ND 0.500 " Hexachlorochtane ND 0.330 " Indeno (1,2,3-cd) pyrene ND 0.330 " Isophorone ND 0.330 " 2-Methylnaphthalene ND 0.330 " 2-Methylphenol ND 0.330 " Naphthalene ND 0.330 " 2-Nitroaniline ND 0.500 " 3-Nitroaniline ND 0.500 " 4-Nitroaniline ND 0.500 " 4-Nitrophenol ND 0.330 " 4-Nitrophenol ND 0.330 " 4-Nitrosodiphenol ND 0.330 " N-Nitrosodiphenol ND 0.330 " N-Nitrosodi-n-propylamine ND 0.330 " N-Nitrosodi-n-propylamine ND 0.330 " Pentachlorophenol ND	Fluorene		ND	0.330	n							
Hexachlorocyclopentadiene ND 0.500 " Hexachlorocthane ND 0.330 " Indeno (1,2,3-ed) pyrene ND 0.330 " Isophorone ND 0.330 " 2-Methylaphthalene ND 0.330 " 2-Methylphenol ND 0.330 " 3 & 4-Methylphenol ND 0.330 " Naphthalene ND 0.330 " 2-Nitroaniline ND 0.500 " 3-Nitroaniline ND 0.500 " 4-Nitrophenol ND 0.500 " 4-Nitrophenol ND 0.330 " N-Nitrosodi-n-propylamine ND 0.330 " N-Nitrosodi-n-propylamine ND 0.330 " Pentachlorophenol ND 0.330 " Phenol ND 0.330 " Phenol ND 0.330 " Pyrene ND 0.330 " <td>Hexachlorobenzene</td> <td></td> <td>ND</td> <td>0.330</td> <td>n</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Hexachlorobenzene		ND	0.330	n							
Hexachloroethane ND 0.330 "	Hexachlorobutadiene		ND	0.330	n				•			
Indeno (1,2,3-cd) pyrene ND	Hexachlorocyclopentad	liene	ND	0.500	11							
ND	Hexachloroethane		ND	0.330	ti .							1
Isophorone ND 0.330 " 2-Methylnaphthalene ND 0.330 " 2-Methylphenol ND 0.330 " 3 & 4-Methylphenol ND 0.330 " Naphthalene ND 0.500 " 2-Nitroaniline ND 0.500 " 3-Nitroaniline ND 0.500 " 4-Nitroaniline ND 0.500 " Nitrobenzene ND 0.330 " 2-Nitrophenol ND 0.330 " 4-Nitrobedinnol ND 0.330 " N-Nitrosodin-propylamine ND 0.330 " N-Nitrosodin-propylamine ND 0.330 " Pentachlorophenol ND 0.330 " Phenol ND 0.330 " Phenol ND 0.330 " Pyrene ND 0.330 " 1,2,4-Trichlorobenzene ND 0.330 " 2,4,5-Trichlorophenol ND 0.330 "	Indeno (1,2,3-cd) pyren	ie	ND	0.330	11							1.
2-Methylphenol ND 0.330 " 3 & 4-Methylphenol ND 0.330 " Naphthalene ND 0.500 " 2-Nitroaniline ND 0.500 " 3-Nitroaniline ND 0.500 " 4-Nitroaniline ND 0.500 " Nitrobenzene ND 0.330 " 2-Nitrophenol ND 0.330 " 4-Nitrophenol ND 0.330 " N-Nitrosodi-n-propylamine ND 0.330 " N-Nitrosodi-n-propylamine ND 0.330 " Pentachlorophenol ND 0.330 " Phenol ND 0.330 " Pyrene ND 0.330 " Pyrene ND 0.330 " 1,2,4-Trichlorobenzene ND 0.330 " 2,4,5-Trichlorophenol ND 0.330 " 2,4,6-Trichlorophenol ND 0.330 "	Isophorone		ND	0.330	11							
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			1.52		,,	1.67		91.0	10-123			

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the custody document. This analytical report must be reproduced in its

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Page 128 of 13 North Creek Analytical, Inc. **Environmental Laboratory Network**



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541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported: 12/08/00 15:15

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control North Creek Analytical - Bothell

Project Manager: Bryan Graham

		Reporting	11	Spike	Source	0/DEC	%REC	מממ	RPD	Maker
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L05025: Prepared 12/05/00	Using EI	A 3550B								-
Blank (0L05025-BLK1)										
Surrogate: Phenol-d6	1.52		mg/kg wet	1.67		91.0	10-130			
Surrogate: 2,4,6-TBP	1.62		n	1.67		97.0	10-131			
Surrogate: Nitrobenzene-d5	1.53		"	1.67		91.6	10-126			
Surrogate: 2-FBP	1.73		"	1.67		104	24-125			
Surrogate: p-Terphenyl-d14	1.95		"	1.67		117	45-135			,
LCS (0L05025-BS1)										
Acenaphthene	3.32	0.330	mg/kg wet	3.33		99.7	25-137			
4-Chloro-3-methylphenol	6.73	0.330	•	6.67		101	12-139			
2-Chlorophenoi	6.16	0.330	11	6.67		92.4	24-121			
1.4-Dichlorobenzene	2.67	0.330	n	3.33		80.2	13-128			
'.4-Dinitrotoluene	3.17	0.500	n	3.33		95.2	17-139			
litrophenol	6.23	0.500	n .	6.67		93.4	10-131			
N-Nitrosodi-n-propylamine	3.05	0.330	n	3.33		91.6	14-139			
Pentachlorophenol	7.23	0.500	**	6.67		108	27-126			
Phenol	6.17	0.330	и	6.67		92.5	18-127			
Pyrene	3.62	0.330	n.	3.33		109	31-149			
1,2,4-Trichlorobenzene	3.18	0.330	u	3.33		95.5	21-129			
Surrogate: 2-FP	1.57			1.67		94.0	10-123			
Surrogate: Phenol-d6	1.60		"	1.67		95.8	10-130			
Surrogate: 2,4,6-TBP	1.74		"	1.67		104	10-131			
Surrogate: Nitrobenzene-d5	1.53		"	1.67		91.6	10-126			
Surrogate: 2-FBP	1.77		"	1.67		106	24-125			
Surrogate: p-Terphenyl-d14	1.87		"	1.67		112	45-135			
Matrix Spike (0L05025-MS1)						B0K0613-				
Acenaphthene	3.65	0.330	mg/kg dry	3.83	ND	95.3	26-133			
4-Chloro-3-methylphenol	8.04	0.330	11	7.66	ND	105	14-132			
2-Chlorophenol	7.17	0.330	ti	7.66	ND	93.6	22-112			
1,4-Dichlorobenzene	2.77	0.330	Ħ	3.83	ND	72.3	17-108			
2,4-Dinitrotoluene	3.62	0.500	II .	3.83	ND	94.5	10-151			
4-Nitrophenol	7.67	0.500	n	7.66	ND	100	10-155			
N-Nitrosodi-n-propylamine	3.36	0.330	, ,	3.83	ND	87.7	17-123			
Pentachlorophenol	9.20	0.500	Ħ	7.66	ND	120	12-129			
Phenol	7.32	0.330	n	7.66	ND	95.6	14-122			
1 Hellot	,,,,,	3.55								

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

777

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L05025: Prepared 12/05/0	0 Using E	PA 3550B								
Matrix Spike (0L05025-MS1)			1		Source: 1	B0K0613-	07			
1,2,4-Trichlorobenzene	3.32	0.330	mg/kg dry	3.83	ND	86.7	10-140			
Surrogate: 2-FP	1.84		"	1.92		95.8	10-123			
Surrogate: Phenol-d6	1.90		•	1.92		99.0	10-130			
Surrogate: 2,4,6-TBP	2.12		"	1.92		110	10-131			
Surrogate: Nitrobenzene-d5	1.80		"	1.92		93.7	10-126			
Surrogate: 2-FBP	2.00		"	1.92		104	24-125			
Surrogate: p-Terphenyl-d14	2.28		"	1.92		119	45-135			
Matrix Spike Dup (0L05025-MSD1)					Source:)	B0K0613-	07			
Acenaphthene	3.73	0.330	mg/kg dry	3.83	ND	97.4	26-133	2.17	32	
4-Chloro-3-methylphenol	7.84	0.330	н	7.66	ND	102	14-132	2.52	39	
2-Chlorophenol	6.97	0.330	n	7.66	ND	91.0	22-112	2.83	37	, ~
1,4-Dichlorobenzene	3.01	0.330	**	3.83	ND	78.6	17-108	8.30	40	7
2,4-Dinitrotoluene	3.72	0.500	91	3.83	ND	97.1	10-151	2.72	35	
4-Nitrophenol	7.13	0.500	II.	7.66	ND	93.1	10-155	7.30	59	
N-Nitrosodi-n-propylamine	3.51	0.330	ti	3.83	ND	91.6	17-123	4.37	40	
Pentachlorophenol	8.72	0.500	"	7.66	ND	114	12-129	5.36	30	
Phenol	7.00	0.330	n	7.66	ND	91.4	14-122	4.47	41	
Pyrene	4.32	0.330	U	3.83	ND	113	33-146	3.77	39	
1.2.4-Trichlorobenzene	3.56	0.330	11	3.83	ND	93.0	10-140	6.98	37	
Surrogate: 2-FP	1.75			1.92		91.1	10-123			
Surrogate: Phenol-d6	1.79		"	1.92		93.2	10-130			
Surrogate: 2,4,6-TBP	1.98		n	1.92		103	10-131			
Surrogate: Nitrobenzene-d5	1.76		"	1.92		91.7	10-126			
Surrogate: 2-FBP	1.91		"	1.92		99.5	24-125			
Surrogate: p-Terphenyl-d14	2.20		"	1.92		115	45-135			

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/08/00 15:15

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0K30038:	Prepared 11/30/00	Using D	ry Weight								
Blank (0K30038-BI	LK1)							_		_	
Dry Weight		100	1.00	%				-			
Batch 0K30039:	Prepared 11/30/00	Using D	ry Weight								
Blank (0K30039-Bl	LK1)										
Dry Weight		99.8	1.00	%	 ,						

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Spokane

Portland

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/08/00 15:15

Notes and Definitions

A-01	The chromatogram for this sample strongly resembles the pattern of mineral spirits
D-06	The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
G-01	Results reported for the gas range are primarily due to overlap from diesel range hydrocarbons.
Q-02	The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference.
Q-07	The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
Q-13	Multiple analyses indicate the percent recovery is outside the control limits due to a matrix effect.
R-03	The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis

North Creek Analytical - Bothell

Relative Percent Difference

RPD

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roject Manager



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(509) 924-9200 (503) 906-9200 0.920

ADDRESS: 2737 West Commodewer WAY REPORT TO: Scott Stuan CLIENT: ファルベ 11.53 - 32-70 RELINQUISHED BY: X.... 53-32-10 50-31-25 56-31-70 56.37.25 CLIENT SAMPLE IDENTIFICATION JETT SPECK UA 120576 Dil Consuns 11/12/00 DATE/TIME SAMPLING copy to Buyer Gulan 0 875 1010 2001 1,500 0450 0340 5580 10/5-/o /o 0830 08:3 250 CHAIN OF CUSTODY REPORT FIRM: FUELEN WHEEKEL TIME 16 20 FIRM: X INVOICE TO: DATE DATE MAZZINE P.O. NUMBER: HMI X ソ ٧ ン X REQUESTED ANALYSES Х X X VUCS RECTEIVED BY: PRINT NAMI: RECEIVED BY: PRINTNAME 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 Solette Weaver Work Order #: Meaver 06 29 07 05 03 08 204 02 6 0 2016 (W, S, O) MATRIX 10 7 TURNAROUND REQUEST in Business Days* HRNI. FIRM: *Turnan and Requests less than standard now ment Rash Crosses Z N Bokca 13 CONT # OF 5 4 3 2 1 <1 OTHER Please Specify Petroleum Hydrocarbon Analyses

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(541) 383-9310 (503) 906-9200 (509) 924-9200 (425) 420-9200 FAN 382-7588 FAX 906-9210 0676-176 XYA FAX 420-9210

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IDENTIFICATION

PHONE:

Nort k Pkv lite 4 hell, East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(509) 924-9200 (503) 906-9200

24-9290 106-9210

(541) 383-9310 FAX 382-7588

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Work Order #: BOK0613 TURNAROUND REQUEST in Business Days* INVOICE TO: Organie & Inorganie Analyses 5 | 4 | 3 | 2 | 1 | <1 STO. Petroleum Hydrocarbon Analyses P.O. NUMBER: REQUESTED ANALYSES Please Specify OTHER "Turnaround Requests less than standard may mear Rush Charges NCA WO MATRIX # OF COMMENTS H) (W, S, O)CONT. 9011 X. 26 义 28 X × 30 X 3 31 X K 32 34 35 36 2 31 RECEIVED BY: (blette usecone) DATE 11. 27. 0 Colette WWWQVEY FIRM: NCA TIME: 16 20 HMI:: PRINT NAME: DATE: RECEIVED BY: TIME: FIRM: PRINT NAME:



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a Project Manager: Bryan Graham

Reported: 12/11/00 16:49

ANALYTICAL REPORT FOR SAMPLES

,					
	Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
	SB-26-2	B0K0574-01	Soil	11/21/00 08:35	11/21/00 18:45
	SB-26-4	B0K0574-02	Soil	11/21/00 08:40	11/21/00 18:45
ļ	SB-26-9	B0K0574-03	Soil	11/21/00 08:50	11/21/00 18:45
	SB-26-14	B0K0574-04	Soil	11/21/00 08:58	11/21/00 18:45
ı	SB-26-19	B0K0574-05	Soil	11/21/00 09:02	11/21/00 18:45
	SB-27-2	B0K0574-06	Soil	11/21/00 09:55	11/21/00 18:45
	SB-27-5	B0K0574-07	Soil	11/21/00 10:05	11/21/00 18:45
	SB-27-10	B0K0574-08	Soil	11/21/00 10:11	11/21/00 18:45
,	SB-27-15	B0K0574-09	Soil	11/21/00 10:20	11/21/00 18:45
	SB-27-20	B0K0574-10	Soil	11/21/00 10:25	11/21/00 18:45
	SB-28-2	B0K0574-11	Soil	11/21/00 11:15	11/21/00 18:45
	3-28-5	B0K0574-12	Soil	11/21/00 11:24	11/21/00 18:45
	3-28-10	B0K0574-13	Soil	11/21/00 11:34	11/21/00 18:45
	SB-28-15	B0K0574-14	Soil	11/21/00 11:40	11/21/00 18:45
	SB-28-20	B0K0574-15	Soil	11/21/00 11:50	11/21/00 18:45
	SB-29-2	B0K0574-16	Soil	11/21/00 13:25	11/21/00 18:45
1	SB-29-5	B0K0574-17	Soil	11/21/00 13:29	11/21/00 18:45
	SB-29-10	B0K0574-18	Soil	11/21/00 13:37	11/21/00 18:45
,	SB-29-15	B0K0574-19	Soil	11/21/00 13:48	11/21/00 18:45
	SB-29-20	B0K0574-20	Soil	11/21/00 13:50	11/21/00 18:45
	SB-29-25	B0K0574-21	Soil ·	11/21/00 13:55	11/21/00 18:45
l	SB-30-2	B0K0574-22	Soil	11/21/00 14:59	11/21/00 18:45
	SB-30-5	B0K0574-23	Soil	11/21/00 15:02	11/21/00 18:45
!	SB-30-10	B0K0574-24	Soil	11/21/00 15:10	11/21/00 18:45
'	SB-30-15	B0K0574-25	Soil	11/21/00 15:15	11/21/00 18:45
	SB-30-20	B0K0574-26	Soil	11/21/00 15:20	11/21/00 18:45
,	SB-30-25	B0K0574-27	Soil	11/21/00 15:25	11/21/00 18:45

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/11/00 16:49

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-26-2 (B0K0574-01) Soil	Sampled: 11/21/00 08:35	Receive	d: 11/21/00 1	18:45					
Gasoline Range Hydrocarbons		5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	n	**	"	17	11	-
Toluene	ND	0.0500	n	h	n	n	n	n	t
Ethylbenzene	ND	0.0500	n	11	tı	Ħ	**	Ħ	'-
Xylenes (total)	ND	0.100	•	11	**	11	11	17	
Surrogate: 4-BFB (FID)	74.4 %	50-150			"	,,	"	"	
Surrogate: 4-BFB (PID)	78.8 %	50-150			**	**	"	f†	i_
SB-26-4 (B0K0574-02) Soil	Sampled: 11/21/00 08:40) Receive	d: 11/21/00]	18:45					
Gasoline Range Hydrocarbons	s ND	5.00	mg/kg dry		0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	**	*1	*1	**	n	
Toluene	ND	0.0500	Ħ	h	11	n	n	n	
Ethylbenzene	ND	0.0500	Ħ	n	D	n	**	n	1
Xylenes (total)	ND	0.100	h	**			n	,	_(
Surrogate: 4-BFB (FID)	83.5 %	50-150	-		"	"	"	"	
Surrogate: 4-BFB (PID)	86.3 %	50-150			"	"	"	"	
SB-26-9 (B0K0574-03) Soil	Sampled: 11/21/00 08:50	0 Receive	d: 11/21/00	18:45		<u></u>			· · · · · · · · · · · · · · · · · · ·
Gasoline Range Hydrocarbons	s ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	_
Benzene	ND	0.0500	Ħ	H	n	n	n	**	,
Toluene	ND	0.0500	11	**	"	Ħ	n	n	í_
Ethylbenzene	ND	0.0500	n	n	**	n	n	•	
Xylenes (total)	ND	0.100	n	n 	n	h	•	и	
Surrogate: 4-BFB (FID)	80.2 %	50-150			н .	,,	"	n	
Surrogate: 4-BFB (PID)	85.2 %	50-150		~	#	"	H	"	

North Creek Analytical - Bothell

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Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Project: West Commodore Way Phase II

Reporting

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

, ,	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ì	SB-26-14 (B0K0574-04) Soil	Sampled: 11/21/00 08:	58 Receiv	ed: 11/21/00	18:45					
	Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	J·	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
1	Benzene	ND	0.0500	n	Ħ	н	n	n	n	
	Toluene	ND	0.0500	n	"	"	n	n	. "	
	Ethylbenzene	ND	0.0500	n	n	n	**	tı	n	
	Xylenes (total)	ND	0.100	**	"	n	"	n	n	
	Surrogate: 4-BFB (FID)	75.2 %	50-150			"	"	"	p	
	Surrogate: 4-BFB (PID)	77.9 %	50-150			"	"	"	"	
	SB-26-19 (B0K0574-05) Soil	Sampled: 11/21/00 09:	02 Receiv	ed: 11/21/00	18:45				<u> </u>	
-	Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
	Benzene	ND	0.0500	n	tı	n	н	11	n	
	Toluene	ND	0.0500	4	н	11	**	н	n	
	⁻ ÷ ylbenzene	ND	0.0500	Ħ	11	11	n	Ħ	II .	
	enes (total)	ND	0.100	н	n	11	r	,	n	
	Surrogate: 4-BFB (FID)	74.1 %	50-150			"	**	"	"	
	Surrogate: 4-BFB (PID)	79.0 %	50-150			"	"	"	"	
	SB-27-2 (B0K0574-06) Soil	Sampled: 11/21/00 09:5	5 Receive	d: 11/21/00 I	18:45					
	Gasoline Range Hydrocarbon	is 55.7	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	G-01
	Benzene	ND	0.0500	H	11	11	Ħ	Ħ	**	
	Toluene	ND	0.0500	R	u	71	11	n	71	
	Ethylbenzene	ND	0.0500	ır	n	*1	Ħ	It	H	
	Xylenes (total)	ND	0.150	11	Ħ	n	**	11		R-03
	Surrogate: 4-BFB (FID)	129 %	50-150			"	"	**		
	Surrogate: 4-BFB (PID)	100 %	50-150			"	n	n	"	

rth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Project Manager: Bryan Graham Bothell WA, 98011

12/11/00 16:49

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-27-5 (B0K0574-07) Soil	Sampled: 11/21/00 10:0	5 Received	d: 11/21/00 1	18:45					
Gasoline Range Hydrocarbo	ns 121	10.0	mg/kg dry	2	0K27018	11/27/00	12/01/00	NWTPH-Gx/8021B	G-01
Benzene .	ND	0.100	н	11	**	11	n	n	
Toluene	ND	0.100	H	n	н	n	**		
Ethylbenzene	ND	0.100	H	71	Ħ	n	n	'n	
Xylenes (total)	ND	0.314	н	17	11	**		n	R-0,
Surrogate: 4-BFB (FID)	%	50-150			**	"	"	n -	S-0
Surrogate: 4-BFB (PID)	107 %	50-150			"	"	"	"	'
SB-27-10 (B0K0574-08) Soil	Sampled: 11/21/00 10	:11 Receiv	ed: 11/21/00	18:45					
Gasoline Range Hydrocarbo	ns 71.4	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	G-0
Benzene	ND	0.0500	"	Ħ	**	m	n	n	
Toluene	ND	0.0500	н	17	. "	77	**	н	ſ
Ethylbenzene	ND	0.0500	u u	b	n	n	77	n	
Xylenes (total)	ND	0.163	и.	**	**	**	н		
Surrogate: 4-BFB (FID)	149 %	50-150			"	"	**	"	, "
Surrogate: 4-BFB (PID)	104 %	50-150			"	"	,,	#	į
SB-27-15 (B0K0574-09) Soil	Sampled: 11/21/00 10	:20 Receiv	ed: 11/21/00	18:45					L
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	n	u	n	*1	**	
Toluene	ND	0.0500	U	11	**	Ħ	n	н	-
Ethylbenzene	ND	0.0500	**	71	**	**	**	n	
Xylenes (total)	ND	0.100	H		h	n	h		
Surrogate: 4-BFB (FID)	80.9 %	50-150			"	"	"	n	
Surrogate: 4-BFB (PID)	85.3 %	50-150			"	"	"	n	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

12/11/00 16:49

Project Manager: Bryan Graham Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B

North Creek Analytical - Bothell

		Reporting		-					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-27-20 (B0K0574-10) Soil	Sampled: 11/21/00 10	:25 Receive	ed: 11/21/00	18:45					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	71	n	0	n	н	п	
Toluene	ND	0.0500	h	11	**	n	17	ıı	
Ethylbenzene	ND	0.0500	n	"	11	"	n	n	
Xylenes (total)	ND	0.100	n	H		н	11	lt .	
Surrogate: 4-BFB (FID)	71.1 %	50-150			"	"	"	. "	
Surrogate: 4-BFB (PID)	74.8 %	50-150		•	"	"	"	"	
SB-28-2 (B0K0574-11) Soil	Sampled: 11/21/00 11:	15 Received	d: 11/21/00 1	18:45					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	n	n	"	*1	ti	
Toluene	ND	0.0500	n	11	"	*1	17	H	
∵∵ylbenzene	. ND	0.0500	ir .	11	"	17	n	n	
enes (total)	ND	0.100	n	*	H		н	"	
Surrogate: 4-BFB (FID)	79.7 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	82.8 %	50-150			"	"	"	#	
SB-28-5 (B0K0574-12) Soil	Sampled: 11/21/00 11:	24 Receive	d: 11/21/00	18:45	<u>-</u>				
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	*1		D	**	н	н	
Toluene	ND	0.0500	n	u	"	n	IT	Ħ	
Ethylbenzene	ND	0.0500	11	71	**	11	"	n	
Xylenes (total)	ND	0.100	n	**	**	"		n	
Surrogate: 4-BFB (FID)	78.2 %	50-150			"	п	"	"	
Surrogate: 4-BFB (PID)	80.6 %	50-150			"	"	n	n	

rth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II Project Number: n/a 12100 NE 195th Street

Reported:

Project Manager: Bryan Graham Bothell WA, 98011

12/11/00 16:49

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-28-10 (B0K0574-13) Soil	Sampled: 11/21/00 13	1:34 Receiv	ed: 11/21/00	18:45					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	ħ	Ħ	n	P	Ħ	
Toluene	ND	0.0500	n	17	71	н	P	Ħ	
Ethylbenzene	ND	0.0500	**	n	11	11	n	n	
Xylenes (total)	ND	0.100	H	"	n	H	Ħ	ч	
Surrogate: 4-BFB (FID)	73.9 %	50-150			,,	,,	" .	н	
Surrogate: 4-BFB (PID)	78.2 %	50-150			"	"	"	n	
SB-28-15 (B0K0574-14) Soil	Sampled: 11/21/00 11	1:40 Receiv	ed: 11/21/00	18:45			_		
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	tı	н	n		**	н	
Toluene	ND	0.0500	11	"	н	n	n	п	
Ethylbenzene	ND	0.0500	и	ħ	n	D	b	n	. سسون
Xylenes (total)	ND	0.100	p	ŧī	*1	U	ħ	n	<u> </u>
Surrogate: 4-BFB (FID)	71.0 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	74.3 %	50-150			"	"	**	"	İ
SB-28-20 (B0K0574-15) Soil	Sampled: 11/21/00 1	1:50 Receiv	ed: 11/21/00	18:45					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	-
Benzene	ND	0.0500	11	**	H	Ħ	Ħ	n .	
Toluene	ND	0.0500	ıı		n	n	"	*1	
Ethylbenzene	ND	0.0500	p	H	Ħ	n	n	**	
Xylenes (total)	ND	0.100	**	н	n	н	n	n	
Surrogate: 4-BFB (FID)	72.2 %	50-150			,,	"	"	"	
Surrogate: 4-BFB (PID)	77.3 %	50-150			"	"	,,	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II 12100 NE 195th Street

Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
									_
SB-29-2 (B0K0574-16) Soil Sample	d: 11/21/00 13:	25 Received	d: 11/21/00 1	18:45					
Gasoline Range Hydrocarbons	536 ⁻	50.0	mg/kg dry	10	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	G-01
Benzene	ND	0.500	"	n	ţı	n	#	n	
Toluene	ND	. 0.500	11	"	11	n	11	ii	
Ethylbenzene	ND	0.710	11	11	n	11	n	**	R-03
Xylenes (total)	ND	1.83	Ħ	*1	**	n	n	n	R-03
Surrogate: 4-BFB (FID)	%	50-150			"	н	"	"	S-02
Surrogate: 4-BFB (PID)	175 %	50-150			,,	"	"	"	S-02
SB-29-5 (B0K0574-17) Soil Sample	d: 11/21/00 13:	29 Receive	d: 11/21/00 1	18:45					
Gasoline Range Hydrocarbons	393	20.0	mg/kg dry	4	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	G-01
Benzene	ND	0.200	**	н	**	u	n	**	
Toluene	ND	0.200	n	•	11	11	U	n	
lbenzene	ND	0.560	11		n	ti	n	**	R-03
nes (total)	ND	1.12	n	11	n	**	**	jı.	R-03
Surrogate: 4-BFB (FID)	%	50-150			11	"	"	,,	S-02
Surrogate: 4-BFB (PID)	183 %	50-150			"	"	"	"	S-02
SB-29-10 (B0K0574-18) Soil Samp	led: 11/21/00 13	3:37 Receiv	ed: 11/21/00	18:45					
Gasoline Range Hydrocarbons	6.97	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	**	n	н	n	n	
Toluene	ND	0.0500	*1	Ħ	n	11	17	u	
Ethylbenzene	ND	0.0500	n	H	n	17	II .	Ħ	
Xylenes (total)	ND	0.100	n	n	n	11	"	n	
Surrogate: 4-BFB (FID)	86.2 %	50-150			. ,,	н	"	<u>"</u>	
Surrogate: 4-BFB (PID)	90.6 %	50-150			"	"	"	"	

th Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/11/00 16:49

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-29-15 (B0K0574-19) Soil	Sampled: 11/21/00 13	3:48 Receiv	ed: 11/21/00	18:45					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	IT	71	н	**	tı	п	1
Toluene	ND	0.0500	ti	**	Ħ	n	н	n	
Ethylbenzene	ND	0.0500	H	ti	H	n	11	11	
Xylenes (total)	ND	0.100	19	**	#	"	H		
Surrogate: 4-BFB (FID)	71.6 %	50-150			"	"	"	,,	1
Surrogate: 4-BFB (PID)	75.2 %	50-150			"	"	"	rt .	
SB-29-20 (B0K0574-20) Soil	Sampled: 11/21/00 13	3:50 Receiv	ed: <u>11/21/00</u>	18:45					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K27018	11/27/00	11/30/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	II	17	11	n	,,	n	
Toluene	. ND	0.0500	Ħ	Ħ	n	Ħ	"	Ħ	ì
Ethylbenzene	ND	0.0500	'n	**	"	**	H	Ħ	, i
Xylenes (total)	ND	0.100	n	**	**	h 	"		
Surrogate: 4-BFB (FID)	72.3 %	50-150			"	"	"	"	1
Surrogate: 4-BFB (PID)	78. 7 %	50-150			"	"	'n	"	L.
SB-29-25 (B0K0574-21) Soil	Sampled: 11/21/00 13	3:55 Receiv	ed: 11/21/00	18:45					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K26005	11/26/00	11/27/00	NWTPH-Gx/8021B	,
Benzene	ND	0.0500	н	Ħ	n	**	n	Ħ	
Toluene	ND	0.0500	11	**	Ħ	11	'n	11	
Ethylbenzene	ND	0.0500	19	n	n		n	н	()
Xylenes (total)	ND	0.100		h	n 	"	n		
Surrogate: 4-BFB (FID)	74.2 %	50-150			n	"	"	"	'-
Surrogate: 4-BFB (PID)	77.3 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Gill, Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Project Manager: Bryan Graham Bothell WA, 98011

12/11/00 16:49

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-30-2 (B0K0574-22) Soil 5	Sampled: 11/21/00 14:59	Receive	d: 11/21/00 1	8:45					
Gasoline Range Hydrocarbon		100	mg/kg dry	20	0K26005	11/26/00	11/27/00	NWTPH-Gx/8021B	
Benzene	ND	1.00	n	n	17		P	ıı	
Toluene	ND	1.00	Ħ	ņ	и	ır	n	n	
Ethylbenzene	ND	9.12	"	*1	n	n	n	n	R-03
Xylenes (total)	ND	33.0		#	n	u	**	n	R-03
Surrogate: 4-BFB (FID)	%	50-150			"	"	"	"	S-01
Surrogate: 4-BFB (PID)	%	50-150			"	"	"	"	S-01
SB-30-5 (B0K0574-23) Soil S	Sampled: 11/21/00 15:03	2 Receive	d: 11/21/00 1	18:45					
Gasoline Range Hydrocarbon	s 19.8	5.00	mg/kg dry	1	0K26005	11/26/00	11/27/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	H	**	#1	n	#	II .	
Toluene	ND	0.0500	n	11	11	**	"	n	
~ [~] ≪ylbenzene	ND	0.0500	IT	71	"	n	br	h	
enes (total)	ND	0.100	n	n	11	и	11	11	
Surrogate: 4-BFB (FID)	98.5 %	50-150			11	"	"	"	
Surrogate: 4-BFB (PID)	94.5 %	50-150			**	"	"	"	
SB-30-10 (B0K0574-24) Soil	Sampled: 11/21/00 15:	10 Receiv	ed: 11/21/00	18:45					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry]	0K26005	11/26/00	11/27/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	17	n	11	n	н	11	
Toluene	ND	0.0500	n	н	n n	h	н	TI .	
Ethylbenzene	ND	0.0500	**	H	u	ti	**	и	
Xylenes (total)	ND	0.100	n	n.	n	ti	**	n	
Surrogate: 4-BFB (FID)	82.0 %	50-150			"	n	"		
Surrogate: 4-BFB (PID)	86.0 %	50-150			"	"	"	n	

ith Creek Analytical - Bothell

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AmanGill, Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-30-15 (B0K0574-25) Soil	Sampled: 11/21/00 15	3:15 Receive	ed: 11/21/00	18:45				<u> </u>	
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K26005	11/26/00	11/27/00	NWTPH-Gx/8021B	-
Benzene	ND	0.0500	11	н	n	n	**	n)
Toluene	ND	0.0500	h	**	It	1)	H	n	Ì
Ethylbenzene	ND	0.0500	Ħ	11	U	b	n	n '	
Xylenes (total)	ND	0.100	H	"	"	н		**	
Surrogate: 4-BFB (FID)	80.8 %	50-150			0	"	"	"	1
Surrogate: 4-BFB (PID)	85.6 %	50-150			"	"	"	**	
SB-30-20 (B0K0574-26) Soil	Sampled: 11/21/00 15	5:20 Receiv	ed: 11/21/00	18:45					
Gasoline Range Hydrocarbon	ns 18.7	5.00	mg/kg dry	1	0K26005	11/26/00	11/28/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	H	*1	n	н	11	
Toluene	ND	0.0500	Ħ	**	n	71	"	n	
Ethylbenzene	ND	0.0500	n	**	ir .	н	**	"	,
Xylenes (total)	ND	0.100	Ħ	"	**	n	n 		<u> </u>
Surrogate: 4-BFB (FID)	100 %	50-150			"	"	"	n	
Surrogate: 4-BFB (PID)	92.4 %	50-150			. " .	,,	"	. "	
SB-30-25 (B0K0574-27) Soil	Sampled: 11/21/00 1:	5:25 Receiv	ed: 11/21/00	18:45				<u> </u>	
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0K26005	11/26/00	11/26/00	NWTPH-Gx/8021B	
Benzene	0.0853	0.0500	n	n	н	n	II	11	
Toluene	ND	0.0500	71	n	n	,,	. **	n	
Ethylbenzene	ND	0.0500	17	**	H	H	17	77	-
Xylenes (total)	ND	0.100		u	**	**	**		
Surrogate: 4-BFB (FID)	75.1 %	50-150			"	" "	"	"	
Surrogate: 4-BFB (PID)	76.7 %	50-150		,	,,	"	"	"	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/11/00 16:49

Volatile Petroleum Hydrocarbons by modified WDOE Interim TPH Policy Method North Creek Analytical - Bothell

,	R	eporting	•						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-29-5 (B0K0574-17) Soil	Sampled: 11/21/00 13:29	Receive	d: 11/21/00	18:45					
C5-C6 Aliphatics	ND	100	mg/kg dry	20	0L04023	12/04/00	12/05/00	WA MTCA-VPH	
C6-C8 Aliphatics	ND	100	11	n	n	**	Ħ	n	
C8-C10 Aliphatics	ND	100	n	Ħ	n	Ħ	n	11	
C10-C12 Aliphatics	238	100	"	"	**	10	,	•	•
C8-C10 Aromatics	ND	100	v	n	"		n	n	
C10-C12 Aromatics	107	100	n	b	**	in		•	
C12-C13 Aromatics	364	100	11	17	10	n	n	n	
Total VPH (TVPH)	709	100	n	**	n	n	ti	p	
Surrogate: 4-BFB (FID)	% . (50-140			"	,,	"	n	S-01
Surrogate: 4-BFB (PID)	% 0	50-140			"	"	"	"	S-01
SB-30-2 (B0K0574-22) Soil	Sampled: 11/21/00 14:59	Receive	đ: 11/21/00 j	18:45				•	
. C5-C6 Aliphatics	ND	100	mg/kg dry	20	0L04023	12/04/00	12/05/00	WA MTCA-VPH	
C8 Aliphatics	171	100	н	**	n	n	**	н	
C10 Aliphatics	416	100	n	**	"	**	**	H	
C10-C12 Aliphatics	1070	100	n	11	n	n	H	н	
C8-C10 Aromatics	351	100	n	**	n	"	"	Ħ	•
C10-C12 Aromatics	766	100	n		fi	**	H	n	
C12-C13 Aromatics	202	100	n		"		tt	Ħ	
Total VPH (TVPH)	2970	100	n	17	ji	19	e	n	
Surrogate: 4-BFB (FID)	% (50-140			**	n	"	n	S-01
Surrogate: 4-BFB (PID)	%	50-140			"	"	"	"	S-01

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reported:

12/11/00 16:49

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS North Creek Analytical - Bothell

Project Manager: Bryan Graham

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-29-5 (B0K0574-17) Soil	Sampled: 11/21/00 13:29	9 Receive	d: 11/21/00 1	18:45					
Methyl tert-butyl ether	ND	1.00	mg/kg dry	1	0K28037	11/27/00	11/27/00	EPA 8260B	
Benzene	ND	0.100	*1	17	11	n	n	n	
Toluene	ND	0.100	n	,,	n	n	"	#	1
Ethylbenzene	ND	0.100	l)	n.	**	Ħ	"	′ н	
m,p-Xylene	ND	0.200	n	**	**	11	Ħ	"	
o-Xylene	ND	0.100	77	17	n	tr.	n	"	
Naphthalene	0.228	0.100	n	н	n	**	"		
Surrogate: 1,2-DCA-d4	134 %	70-130	-		,,	"	"	"	S-0
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-BFB	101 %	70-130			"	"	"	"	
SB-30-2 (B0K0574-22) Soil	Sampled: 11/21/00 14:5	9 Receive	d: 11/21/00	18:45		<u> </u>			
Methyl tert-butyl ether	ND	1.00	mg/kg dry	1	0K28037	11/27/00	11/27/00	EPA 8260B	,
Benzene	ND	0.100	n	"	11	н	н	Ħ	ķ
Toluene	ND	0.100	*1	n	n	h	**	п	* *
Ethylbenzene	4.73	0.100	**	u	*1	**	**	n	
m,p-Xylene	6.31	0.200	n	n	**	n	11	n	
o-Xylene	8.34	1.00	n	10	**	11	11/28/00	u	
Naphthalene	5.72	0.100	n	1	n	"	11/27/00	11	
Surrogate: 1,2-DCA-d4	148 %	70-130			,,	"	"	"	S-0
Surrogate: Toluene-d8	78.4 %	70-130			"	"	"	n	-
Surrogate: 4-BFB	61.6 %	70-130			"	"	"	"	S-0

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-26-2 (B0K0574-01) Soil S	Sampled: 11/21/00 08:3	5 Received	d: 11/21/00 1	18:45					
Diesel Range Hydrocarbons	54.1	10.0	mg/kg dry	1	0K28028	11/28/00	11/28/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	tt	ь	"	11	n	н	
Surrogate: 2-FBP	82.4 %	50-150			"	11	n	"	
Surrogate: Octacosane	78.5 %	50-150			"	"	"	"	
SB-26-4 (B0K0574-02) Soil	Sampled: 11/21/00 08:4	0 Receive	d: 11/21/00 1	18:45					
Diesel Range Hydrocarbons	10.7	10.0	mg/kg dry	1	0K28028	11/28/00	11/28/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	tr	11	**		n	**	<u> </u>
Surrogate: 2-FBP	75.8 %	50-150		_	"	"	"	"	
Surrogate: Octacosane	85.6 %	50-150			"	"	"	"	
SB-26-9 (B0K0574-03) Soil	Sampled: 11/21/00 08:5	0 Receive	d: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28028	11/28/00	11/28/00	NWTPH-Dx	
e Oil Range Hydrocarbons	ND	25.0	h	n	н	n			
Surrogate: 2-FBP	87.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	81.9 %	50-150			"	"	"	"	
SB-26-14 (B0K0574-04) Soil	Sampled: 11/21/00 08:	58 Receiv	ed: 11/2 <u>1/0</u> 0	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28028	11/28/00	11/28/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	**	n	**	"	11	10	
Surrogate: 2-FBP	85.0 %	50-150			"	"	"	n n	
Surrogate: Octacosane	92.1 %	50-150			"	"	n	n	
SB-26-19 (B0K0574-05) Soil	Sampled: 11/21/00 09:	02 Receiv	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28028	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	. 41	n	tı	"	"	n	
Surrogate: 2-FBP	87.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	83.2 %	50-150			"	"	"	"	

rth Creek Analytical - Bothell

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> North Creek Analytical, Inc. **Environmental Laboratory Network**



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/11/00 16:49

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting		•		-			1
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-27-2 (B0K0574-06) Soil S	Sampled: 11/21/00 09:5	5 Receive	d: 11/21/00	18:45					
Diesel Range Hydrocarbons	562	10.0	mg/kg dry	1	0K28028	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbon	s 472	25.0	n	Ħ	11	ti	h	"	
Surrogate: 2-FBP	81.0 %	50-150		<u> </u>	,,	"	"	,,	
Surrogate: Octacosane	91.3 %	50-150			"	"	"	n	
SB-27-5 (B0K0574-07) Soil	Sampled: 11/21/00 10:0	5 Receive	d: 11/21/00	18:45					
Diesel Range Hydrocarbons	1190	210	mg/kg dry	21	0K28028	11/28/00	11/29/00	NWTPH-Dx	ļ
Lube Oil Range Hydrocarbons	ND	525		Ħ	h		11	11	
Surrogate: 2-FBP	%	50-150			"	,,	"	"	S-0.
Surrogate: Octacosane	68.0 %	50-150			"	"	"	71	
SB-27-10 (B0K0574-08) Soil	Sampled: 11/21/00 10:	11 Receiv	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	242	110	mg/kg dry	11	0K28028	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbon	316	275	н	н	,,	n 	11		· · · · · ·
Surrogate: 2-FBP	53.9 %	50-150			71	"	"	"	
Surrogate: Octacosane	96.6 %	50-150			"	"	"	n	,
SB-27-15 (B0K0574-09) Soil	Sampled: 11/21/00 10:	20 Receiv	ed: 11/21/00	18:45		٠			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28028	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	11	11	"	,,	**	, III	4
Surrogate: 2-FBP	82.7 %	50-150			"	n	"	n	i
Surrogate: Octacosane	88.7 %	50-150			"	"	"	"	
SB-27-20 (B0K0574-10) Soil	Sampled: 11/21/00 10:	25 Receiv	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28028	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	**	Ħ	n	n	н	
Surrogate: 2-FBP	86.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	80.0 %	50-150			"	,,	"	"	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/11/00 16:49

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-28-2 (B0K0574-11) Soil S	Sampled: 11/21/00 11:1	5 Receive	d: 11/21/00 1	8:45					
Diesel Range Hydrocarbons	12.3	10.0	mg/kg dry	1	0K28028	11/28/00	11/29/00	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	ND	25.0	н	11	n	п	*		
Surrogate: 2-FBP	84.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	90.2 %	50-150			"	"	"	"	
SB-28-5 (B0K0574-12) Soil S	Sampled: 11/21/00 11:2	4 Receive	d: 11/21/00 1	8:45					_
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	n	tt	n	h		
Surrogate: 2-FBP	74.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	78.2 %	50-150			"	"	"	"	
SB-28-10 (B0K0574-13) Soil	Sampled: 11/21/00 11	34 Receiv	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx	
e Oil Range Hydrocarbons	ND	25.0	D	"		n	n .	n	
surrogate: 2-FBP	81.7 %	50-150			"	"	n	n	
Surrogate: Octacosane	76.0 %	50-150			"	"	**	**	
SB-28-15 (B0K0574-14) Soil	Sampled: 11/21/00 11	40 Receiv	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	tr	87	**	**	**	· · · · · · · · · · · · · · · · · · ·	
Surrogate: 2-FBP	72.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	84.5 %	50-150	,		"	"	"	"	
SB-28-20 (B0K0574-15) Soil	Sampled: 11/21/00 11	:50 Receiv	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	n	**	n	**	h	11	
Surrogate: 2-FBP	84.0 %	50-150	-	-	"	"	"	"	
Surrogate: Octacosane	79.4 %	50-150			"	"	"	"	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Project Manager: Bryan Graham Bothell WA, 98011

12/11/00 16:49

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-29-2 (B0K0574-16) Soil S	Sampled: 11/21/00 13:2	5 Received	d: 11/21/00 1	18:45					
Diesel Range Hydrocarbons	3220	110	mg/kg dry	11	0K28055	11/28/00	11/29/00	NWTPH-Dx	-
Lube Oil Range Hydrocarbon	s 1160	275	n	ti	n	**	U	H	
Surrogate: 2-FBP	%	50-150			,,	"	"	"	S-0.
Surrogate: Octacosane	98.3 %	50-150			"	"	H	"	
-	Sampled: 11/21/00 13:2	9 Receive	d: 11/21/00 I	18:45					
Diesel Range Hydrocarbons	1930	110	mg/kg dry	11	0K28055	11/28/00	11/29/00	NWTPH-Dx	(
Lube Oil Range Hydrocarbon	s 488	275	u	н.	"	и	**	п	
Surrogate: 2-FBP	%	50-150	•		"	"	"	***	S-6
Surrogate: Octacosane	, 79.5 %	50-150			"	"	"	"	1
	Sampled: 11/21/00 13	37 Receiv	ed: <u>1</u> 1/21/00	18:45					 ;
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx	, - ,
Lube Oil Range Hydrocarbons	ND	25.0	Ħ	n		n	"		<u></u> <u>`</u>
Surrogate: 2-FBP	73.8 %	50-150			"	"	"	"	
Surrogate: Octacosane	81.5 %	50-150			"	"	"	"	i
SB-29-15 (B0K0574-19) Soil	Sampled: 11/21/00 13	:48 Receiv	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	н	11	**	#	n		
Surrogate: 2-FBP	80.3 %	50-150			н	"	n	"	;
Surrogate: Octacosane	78.7 %	50-150			"	"	11	"	
SB-29-20 (B0K0574-20) Soil	Sampled: 11/21/00 13	:50 Receiv	ed: 11/21/00	18:45	_				!
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry]	0K28055	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	IT	"	"	n	, n		
Surrogate: 2-FBP	72.2 %	50-150			"	"	"	.,	i
Surrogate: Octacosane	86.2 %	50-150			**	"	"	"	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/11/00 16:49

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

Bend

North Creek Analytical - Bothell

A 1	Result	Reporting Limit	Units	Dilution	Batch	Drengred	Analyzed	Method	Note
Analyte	- Result	Limit	- Units			Trepared			
SB-29-25 (B0K0574-21) Soil	Sampled: 11/21/00 13	3:55 Receive	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	· ND	25.0	H	11	11	n		H	
Surrogate: 2-FBP	78.9 %	50-150	_		"	"	,,	"	
Surrogate: Octacosane	78.1 %	50-150			"	n	"	"	
SB-30-2 (B0K0574-22) Soil	Sampled: 11/21/00 14:	59 Receive	d: 11/21/00 1	18:45					
Diesel Range Hydrocarbons	832	110	mg/kg dry	11	0K28055	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	275	"	**	"	u		n 	
Surrogate: 2-FBP	126 %	50-150			"	. , ,	"	"	
Surrogate: Octacosane	76.5 %	50-150			"	**	"	"	
SB-30-5 (B0K0574-23) Soil	Sampled: 11/21/00 15:	02 Receive	d: 11/21/00	18:45					
sel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx	
e Oil Range Hydrocarbons	· ND	25.0	n 	n	"		ji		
Surrogate: 2-FBP	78.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	76.2 %	50-150			"	,,	**	"	
SB-30-10 (B0K0574-24) Soil	Sampled: 11/21/00 15	5:10 Receiv	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx -	
Lube Oil Range Hydrocarbons	ND	25.0	n	"	h		н	**	
Surrogate: 2-FBP	70.1 %	50-150	·		"	,,	"	"	
Surrogate: Octacosane	80.2 %	50-150			"	,,	μ	"	
SB-30-15 (B0K0574-25) Soil	Sampled: 11/21/00 15	5:15 Receiv	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0		и	н	11	P	. н	
Surrogate: 2-FBP	80.9 %	50-150			"	**	<i>"</i>	"	
Surrogate: Octacosane	78.4 %	50-150			"	"	"	"	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-30-20 (B0K0574-26) Soil	Sampled: 11/21/00 15	5:20 Receiv	ed: 11/21/00	18:45				<u> </u>	
Diesel Range Hydrocarbons	16.5	10.0	mg/kg dry	1	0K28055	11/28/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	11	n	tr	**	"		
Surrogate: 2-FBP	86.6 %	50-150			"	,,	n	"	
Surrogate: Octacosane	89.9 %	50-150			"	н	Ħ	"	
SB-30-25 (B0K0574-27) Soil	Sampled: 11/21/00 15	5:25 Receiv	ed: 11/21/00	18:45					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	I	0K29005	11/29/00	11/29/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	25.0	11	u	n	"	11	n	
Surrogate: 2-FBP	91.7 %	50-150			"	"	"	"	-
Surrogate: Octacosane	85.6 <i>%</i>	50-150			"	" .	,,	,	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Extractable Petroleum Hydrocarbons by modified WDOE Interim TPH Policy Method North Creek Analytical - Bothell

1			Reporting							l.
-{	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
`} -	SB-29-5 (B0K0574-17) Soil	Sampled: 11/21/00 13:29	Receive	d: 11/21/00 :	18:45					
	C8-C10 Aliphatics	24.1	10.0	mg/kg dry	2	0L04002	12/04/00	12/07/00	WA MTCA-EPH	
ċ	C10-C12 Aliphatics	220	10.0	n	*1	"	н	19	n	
ł	C12-C16 Aliphatics	672	10.0	u	н	17	19	n	Ħ	
	C16-C21 Aliphatics	245	10.0	n	P	71	11	**	n	
-	C21-C34 Aliphatics	214	10.0	,	"	"	"	"	U	
ŧ	C10-C12 Aromatics	39.9	10.0	n	n	n	II	н	11	
	C12-C16 Aromatics	253	10.0	"	n	11	"	71	H .	
-,	C16-C21 Aromatics	136	10.0	**	17	"	tr	n	n	
ļ	C21-C34 Aromatics	150	10.0	ıı	11	"	н	н	n	
į	Extractable Petroleum	1950		u	n	p	l7	n	n	
	Hydrocarbons									
	Surrogate: 2-FBP	107 %	50-150		·	"	"	"	"	
1	rogate: Octacosane	90.1 %	50-150			"	"	"	"	
	rogate: Undecane	104 %	30-150			"	"	"	"	
1	SB-30-2 (B0K0574-22) Soil	Sampled: 11/21/00 14:5	9 Receive	d: <u>11/21/00</u>	18:45					
i)	C8-C10 Aliphatics	731	10.0	mg/kg dry	2	01.04002	12/04/00	12/07/00	WA MTCA-EPH	
	C10-C12 Aliphatics	1850	10.0	n	*1		H	10	n	
ì	C12-C16 Aliphatics	914	10.0	71	H	n	"	n	n	
1	C16-C21 Aliphatics	93.8	10.0	n	0	"	,	n	H	
	C21-C34 Aliphatics	119	10.0	ti	**	1*	n	"	n	
	C10-C12 Aromatics	279	10.0	tt	11	"	11	11	H	
	C12-C16 Aromatics	107	10.0	H	"	н	n	n	n	
į	C16-C21 Aromatics	51.2	10.0	"	**	P	11	n	"	
	C21-C34 Aromatics	87.7	10.0	**	r	"	n	н	"	
,	Extractable Petroleum	4230		,	"	n	н	v	n	
	Hydrocarbons									
., J	Surrogate: 2-FBP	94.2 %	50-150			"	**	"	"	
	Surrogate: Octacosane	. 82.2 %	50-150			"	"	"	"	
	Surrogate: Undecane	%	30-150			"	,,	"	,	S-02

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Re	eporting						-	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-26-2 (B0K0574-01) Soil	Sampled: 11/21/00 08:35	Receive	d: 11/21/00	18:45					<u> </u>
Lead	3.19	0.347	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-26-4 (B0K0574-02) Soil	Sampled: 11/21/00 08:40	Receive	d: 11/21/00	18:45					
Lead	9.18	0.342	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	·
SB-26-9 (B0K0574-03) Soil	Sampled: 11/21/00 08:50	Receive	d: 1 <u>1/21/00</u>	18:45					<u> </u>
Lead	2.45	0.298	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	ļ
SB-26-14 (B0K0574-04) Soil	Sampled: 11/21/00 08:58	Receiv	ed: 11/21/00	18:45					
Lead	2.89	0.382	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	·
SB-26-19 (B0K0574-05) Soil	Sampled: 11/21/00 09:02	Receiv	ed: 1 <u>1/21/0</u> 0	18:45				_	
Lead	2.37	0.342	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-27-2 (B0K0574-06) Soil	Sampled: 11/21/00 09:55	Receive	d: 11/21/00	18:45		_			
Lead	4.63	0.362	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-27-5 (B0K0574-07) Soil	Sampled: 11/21/00 10:05	Receive	d: 11/21/00	18:45					
Lead	2.79	0.352	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-27-10 (B0K0574-08) Soil	Sampled: 11/21/00 10:11	Receiv	ed: 11/21/00	18:45					
Lead	7.61	0.352	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-27-15 (B0K0574-09) Soil	Sampled: 11/21/00 10:20	Receiv	ed: 11/21/00	18:45					ì
Lead	5.56	0.373	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Re	porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method 	Notes
SB-27-20 (B0K0574-10) Soil	Sampled: 11/21/00 10:25	Receive	ed: 11/21/00	18:45			- <u></u>		
Lead	2.01	0.350	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-28-2 (B0K0574-11) Soil	Sampled: 11/21/00 11:15	Receive	d: 11/21/00 1	18:45					
Lead	2.41	0.336	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-28-5 (B0K0574-12) Soil	Sampled: 11/21/00 11:24	Receive	d: 11/21/00 1	18:45					_
Lead	4.62	0.338	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-28-10 (B0K0574-13) Soil	Sampled: 11/21/00 11:34	Receive	ed: 11/21/00	18:45					
Lead	3.02	0.355	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-28-15 (B0K0574-14) Soil	Sampled: 11/21/00 11:40	Receiv	ed: 11/21/00	18:45					
Lead	3.66	0.331	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
57 28-20 (B0K0574-15) Soil	Sampled: 11/21/00 11:50	Receiv	ed: 11/21/00	18:45					
ıd	2.48	0.357	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-29-2 (B0K0574-16) Soil	Sampled: 11/21/00 13:25	Receive	d: 11/21/00	18:45		_			
Lead	13.3	0.336	mg/kg dry	I	0L01037	12/01/00	12/03/00	EPA 6020	
SB-29-5 (B0K0574-17) Soil	Sampled: 11/21/00 13:29	Receive	d: 11/21/00	18:45					
Lead	4.27	0.311	mg/kg dry	1	0L01037	12/01/00	12/03/00	EPA 6020	
SB-29-10 (B0K0574-18) Soil	Sampled: 11/21/00 13:37	Receiv	ed: 11/21/00	18:45					
Lead	5.28	0.329	mg/kg dry		0L01037	12/01/00	12/03/00	EPA 6020	



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/11/00 16:49

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

	Rej	oorting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-29-15 (B0K0574-19) Soil	Sampled: 11/21/00 13:48	Receiv	ed: 11/21/00	18:45					
Lead	3.86	0.331	mg/kg dry	1	0L01039	12/01/00	12/03/00	EPA 6020	1 .
SB-29-20 (B0K0574-20) Soil	Sampled: 11/21/00 13:50	Receiv	ed: 11/21/00	18:45					
Lead	2.31	0.352	mg/kg dry	1	0L01039	12/01/00	12/03/00	EPA 6020	١-
SB-29-25 (B0K0574-21) Soil	Sampled: 11/21/00 13:55	Receiv	ed: 11/2 <u>1/00</u>	18:45		· · ·			
Lead	2.15	0.340	mg/kg dry	1	0L01039	12/01/00	12/04/00	EPA 6020	
SB-30-2 (B0K0574-22) Soil	Sampled: 11/21/00 14:59	Receive	d: 11/21/00	18:45					
Lead	7.22	0.370	mg/kg dry	1	0L01039	12/01/00	12/03/00	EPA 6020	ĺ
SB-30-5 (B0K0574-23) Soil	Sampled: 11/21/00 15:02	Receive	d: 11/21/00	18:45					
Lead	3.41	0.329	mg/kg dry	1	0L01039	12/01/00	12/03/00	EPA 6020	(*
SB-30-10 (B0K0574-24) Soil	Sampled: 11/21/00 15:10	Receiv	ed: 11/21/00	18:45				<u> </u>	
Lead	3.82	0.360	mg/kg dry	1	0L01039	12/01/00	12/03/00	EPA 6020	(
SB-30-15 (B0K0574-25) Soil	Sampled: 11/21/00 15:15	Receiv	ed: 11/21/00	18:45					
Lead	3,40	0.352	mg/kg dry	1	0L01039	12/01/00	12/03/00	EPA 6020	(
SB-30-20 (B0K0574-26) Soil	Sampled: 11/21/00 15:20	Receiv	ed: 11/21/00	18:45					<u> </u>
Lead	2.50	0.345	mg/kg dry	1	0L01039	12/01/00	12/03/00	EPA 6020	1
SB-30-25 (B0K0574-27) Soil	Sampled: 11/21/00 15:25	Receiv	ed: 11/21/00	18:45					
Lead	2.31	0.342	mg/kg dry	1	0L01039	12/01/00	12/03/00	EPA 6020	200

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Project Number: n/a

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting				_			
Analyte .	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-26-2 (B0K0574-01RE1) Soil	Sampled: 11/21/00	08:35 Rec	eived: 11/21	/00 18:45					
Pentachlorophenol	ND	0.100	mg/kg dry	2	0L05012	12/05/00	12/06/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	53.3 %	30-150			"	"	**	"	
SB-26-4 (B0K0574-02RE1) Soil	Sampled: 11/21/00	08:40 Rec	eived: 11/21	/00 18:45					
Pentachlorophenol	ND	0.0500	mg/kg dry	1	0L05012	12/05/00	12/06/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	72.0 %	30-150		· -	"	n	"	"	
SB-26-9 (B0K0574-03RE1) Soil	Sampled: 11/21/00	08:50 Rec	eived: 11/21	/00 18:45_					
Pentachlorophenol	ND	0.0500	mg/kg dry	1	0L05012	12/05/00	12/06/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	49.2 %	30-150			"	#	"	"	
SB-27-2 (B0K0574-06) Soil Sa	ampled: 11/21/00 09:	55 Receive	d: 11/21/00 1	18:45					_
Pentachlorophenol	ND	0.250	mg/kg dry	5	0K29027	11/29/00	12/05/00	GCMS-SIM	
ogate: 2,4,6-TBP	71.6 %	30-150			"	11	"	"	
SB-27-5 (B0K0574-07) Soil Sa	ampled: 11/21/00 10:	05 Receive	d: 11/21/00 1	18:45					
Pentachlorophenol	ND	0.500	mg/kg dry	10	0K29027	11/29/00	12/05/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	77.0 %	30-150	-		"	"	"	"	
SB-27-10 (B0K0574-08) Soil	Sampled: 11/21/00 10	:11 Receiv	ed: 11/21/00	18:45					
Pentachlorophenol	ND	1.00	mg/kg dry	20	0K29027	11/29/00	12/02/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	82.7 %	30-150	-		"	"	"	,,	•
SB-29-2 (B0K0574-16) Soil S	ampled: 11/21/00 13:	25 Receive	d: 11/21/00 1	18:45					
Pentachlorophenol	ND	2.50	mg/kg dry	50	0K29027	11/29/00	12/05/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	58.2 %	30-150			n	"	"	"	

nth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-29-5 (B0K0574-17) Soil Sam	pled: 11/21/00 13:	29 Receive	d: 11/21/00 1	18:45					
Pentachlorophenol	ND	1.00	mg/kg dry	20	0K29027	11/29/00	12/05/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	47.9 %	30-150			"	"	"	,,	
SB-29-10 (B0K0574-18RE1) Soil	Sampled: 11/21/0	00 13:37 Re	eceived: 11/2	21/00 18:45	<u> </u>	<u> </u>			
Pentachlorophenol	ND	0.0500	mg/kg dry	1	0L05012	12/05/00	12/06/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	49.0 %	30-150			"	"	"	"	
SB-30-2 (B0K0574-22) Soil Sam	pled: 11/21/00 14:	59 Receive	d: 11/21/00	18:45					
Pentachlorophenol	ND	0.250	mg/kg dry	5	0K29027	11/29/00	12/05/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	67.9 %	30-150			"	"	"	"	,
SB-30-5 (B0K0574-23RE1) Soil	Sampled: 11/21/00	0 15:02 Red	ceived: 11/2	/00 18:45	_				
Pentachlorophenol	ND	0.0500	mg/kg dry	1	0L05012	12/05/00	12/06/00	GCMS-SIM	ل ۱ منسر <u></u>
Surrogate: 2,4,6-TBP	30.3 %	30-150			"	"	"	,,	
SB-30-10 (B0K0574-24RE1) Soil	Sampled: 11/21/	00 15:10 R	eceived: 11/2	21/00 18:45	5				
Pentachlorophenol	ND	0.0500	mg/kg dry	1	01.05012	12/05/00	12/06/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	51.3 %	30-150			"	"	"	"	

North Creek Analytical - Bothell

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North Creek Analytical, Inc. Environmental Laboratory Network Page 24 of Amar Gill, Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/11/00 16:49

Carcinogenic Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-26-2 (B0K0574-01) Soil	Sampled: 11/21/00 08:	35 Receive	d: 11/21/00	18:45					
Benzo (a) anthracene	ND	0.0200	mg/kg dry	2	0K29027	11/29/00	12/05/00	GCMS-SIM	
Benzo (a) pyrene	ND	0.0200	n	n	11	н	n	n	
Benzo (b) fluoranthene	ND	0.0200	h	**	"	**	11	и	
Benzo (k) fluoranthene	ND	0.0200	H	**	**	79	11	U	
Chrysene	ND	0.0200	11	17	10	P	н	n	
Dibenz (a,h) anthracene	ND	0.0200	**	"	n	p	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0200	,,	Ħ	n	u	н		
Surrogate: 2-FBP .	75.4 %	13-140			"	"	"	,,	
Surrogate: Nitrobenzene-d5	81.0 %	10-138			"	"	"	"	
Surrogate: p-Terphenyl-d14	114 %	19-137			"	"	"	17	
SB-26-4 (B0K0574-02) Soil	Sampled: 11/21/00 08:	40 Receive	d: 11/21/00	18:45					
zo (a) anthracene	ND	0.0100	mg/kg dry	1	0K29027	11/29/00	11/30/00	GCMS-SIM	
zo (a) pyrene	ND	0.0100	n	**	tr	ħ	lt	H	
Benzo (b) fluoranthene	ND	0.0100	11	**	u	n	ls.	#	
Benzo (k) fluoranthene	ND	0.0100	**	н	*1	n	11	11	
Chrysene	ND	0.0100	H	n	п	u	n	n	
Dibenz (a,h) anthracene	ND	0.0100	n	n	H	H	н	H	
Indeno (1,2,3-cd) pyrene	ND	0.0100	11	11	n	11	II	**	
Surrogate: 2-FBP	92.8 %	13-140			"	11	"	"	
Surrogate: Nitrobenzene-d5	90.8 %	10-138			"	"	"	"	
Surrogate: p-Terphenyl-d14	81.6 %	19-137			"	"	"	"	
SB-26-9 (B0K0574-03) Soil	Sampled: 11/21/00 08:	50 Receive	d: 11/21/00	18:45					
Benzo (a) anthracene	ND	0.0100	mg/kg dry	1	0K29027	11/29/00	12/02/00	GCMS-SIM	- •
Benzo (a) pyrene	ND	0.0100	11	n	Ħ	11	n	n	
Benzo (b) fluoranthene	ND	0.0100	11	n	n	n	p	'n	
Benzo (k) fluoranthene	ND	0.0100	U	U	n	n	"	и	
Chrysene	ND	0.0100	n	n	11	11	*1	n	
Dibenz (a,h) anthracene	ND	0.0100	н	11	11	h	Ħ	II	
Indeno (1,2,3-cd) pyrene	ND	0.0100	h	"	н	11	Ħ	n	
Surrogate: 2-FBP	71.2 %	13-140		-	"	"	p	"	
Surrogate: Nitrobenzene-d5	82.7 %	10-138			n	"	n	"	
Surrogate: p-Terphenyl-d14	91.1 %	19-137			Ħ	n	"	u	

nth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

Carcinogenic Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Allalyte									
SB-27-2 (B0K0574-06) Soil	Sampled: 11/21/00 09:55	Receive	d: 11/21/00 1	18:45					
Benzo (a) anthracene	ND	0.0500	mg/kg dry	5	0K29027	11/29/00	12/05/00	GCMS-SIM	
Benzo (a) pyrene	ND	0.0500	n	Ħ	**	n	И	Ħ	1
Benzo (b) fluoranthene	, ND	0.0500	n	Ħ	n	n	н	n	ì
Benzo (k) fluoranthene	ND	0.0500	٠.	*	n	. "	"		
Chrysene	ND	0.0500	н	u	11	` H	**	l* .	•
Dibenz (a,h) anthracene	ND	0.0500	n	*	"	н	n	71	
Indeno (1,2,3-cd) pyrene	ND	0.0500		н	"	"	n 		'
Surrogate: 2-FBP	83.2 %	13-140			"	"	"	n	(
Surrogate: Nitrobenzene-d5	76.1 %	10-138			"	"	"	"	Í
Surrogate: p-Terphenyl-d14	115 %	19-137			"	"	,,	"	
SB-27-5 (B0K0574-07) Soil	Sampled: 11/21/00 10:05	Receive	d: 11/21/00	18:45					
Benzo (a) anthracene	ND	0.100	mg/kg dry	10	0K29027	11/29/00	12/05/00	GCMS-SIM	- `.
Benzo (a) pyrene	ND	0.100	II	ıı	11	"	n	n	,
Benzo (b) fluoranthene	ND	0.100	n	H	n	н	н	**	•
Benzo (k) fluoranthene	ND	0.100	*1	**	n	**	17	n	ł
Chrysene	ND	0.100	n	*	n	**	**	n	į
Dibenz (a,h) anthracene	ND	0.100	u	n	11	n	n	n	
Indeno (1,2,3-cd) pyrene	ND	0.100	Ħ	n	**	"	ħ		:
Surrogate: 2-FBP	84.2 %	13-140			"	"	"	"	ļ
Surrogate: Nitrobenzene-d5	71.4 %	10-138			"	,,	"	"	,
Surrogate: p-Terphenyl-d14	120 %	19-137			"	**	H	. "	·
SB-27-10 (B0K0574-08) Soil	Sampled: 11/21/00 10:	11 Receiv	ed: 11/21/00	18:45					i
Benzo (a) anthracene	ND	0.200	mg/kg dry	20	0K29027	11/29/00	12/02/00	GCMS-SIM	
Benzo (a) pyrene	ND	0.200	n	n	17	п	n	n	
Benzo (b) fluoranthene	ND	0.200	Ħ	n	n	**	11	н	į
Benzo (k) fluoranthene	ND	0.200	11	T	**	17	n	н	ļ
Chrysene	ND	0.200	n	n	"	11	н	н	
Dibenz (a,h) anthracene	ND	0.200	Ħ	n	n	н	n	**	ķ
Indeno (1,2,3-cd) pyrene	ND	0.200	**	н	n	11	Ħ		
	97.3 %	13-140			н	"	"	"	
•		10-138			"	"	"	"	
Surrogate: p-Terphenyl-d14	94.1 %	19-137			"	"	"	"	
Indeno (1,2,3-cd) pyrene Surrogate: 2-FBP Surrogate: Nitrobenzene-d5	ND 97.3 % 69.2 %	0.200 13-140 10-138	11	H	n	"	"	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Carcinogenic Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

A =14-		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-29-2 (B0K0574-16) Soil	Sampled: 11/21/00 13:2	5 Receive	d: 11/21/00 1	18:45	<u>-</u> ·				
Benzo (a) anthracene	ND	0.500	mg/kg dry	50	0K29027	11/29/00	12/05/00	GCMS-SIM	
Benzo (a) pyrene	ND	0.500	n	H	n	n	**	l7	
Benzo (b) fluoranthene	ND	0.500	17	**	**	n	h	h	
Benzo (k) fluoranthene	ND	0.500	"	*1	**	U	n	ti	
Chrysene	ND	0.500	n	11	**	n	n.	**	
Dibenz (a,h) anthracene	ND	0.500	ŧı	17	11	11	n	n	
Indeno (1,2,3-cd) pyrene	ND	0.500	n	11	17	н	n	п	
Surrogate: 2-FBP	76.2 %	13-140			,,	"	"	"	
Surrogate: Nitrobenzene-d5	56.1 %	10-138			"	"	"	"	
Surrogate: p-Terphenyl-d14	97.9 %	19-137			"	"	"	"	
SB-29-5 (B0K0574-17) Soil	Sampled: 11/21/00 13:2	9 Receive	d: 11/21/00 I	18:45					
izo (a) anthracene	ND	0.200	mg/kg dry	20	0K29027	11/29/00	12/05/00	GCMS-SIM	
ızo (a) pyrene	ND	0.200	IJ	н	11	n	Ħ	ti	
Benzo (b) fluoranthene	ND	0.200	u	n	**	n	**	Ħ	
Benzo (k) fluoranthene	ND	0.200	n	**	'n	17	•	"	
Chrysene	ND	0.200	n .	n	n	11	11	U	
Dibenz (a,h) anthracene	ND	0.200	"	n	"	n	11	p	
Indeno (1,2,3-cd) pyrene	ND	0.200	**	**	h	н	H	н	
Surrogate: 2-FBP	79.2 %	13-140			,,	"	"	"	
Surrogate: Nitrobenzene-d5	72.0 %	10-138			*	"	v	**	
Surrogate: p-Terphenyl-d14	106 %	19-137			"	n	"	**	
SB-29-10 (B0K0574-18) Soil	Sampled: 11/21/00 13:	37 Receiv	ed: 11/21/00	18:45					
Benzo (a) anthracene	ND	0.0100	mg/kg dry	1	0K29027	11/29/00	12/05/00	GCMS-SIM	
Benzo (a) pyrene	0.0430	0.0100	n	TF.	lr .	n	n		
Benzo (b) fluoranthene	ND	0.0100	Ħ	**	11	n	и	**	
Benzo (k) fluoranthene	ND	0.0100	n	**	Ħ	"	ir .	w	
Chrysene	ND	0.0100	n	n	n	**	•	n	
Dibenz (a,h) anthracene	ND	0.0100	n	H	n	n	n	n	
Indeno (1,2,3-cd) pyrene	ND	0.0100	II .	п	n	11	11	t7	
Surrogate: 2-FBP	64.0 %	13-140			11	"	11	"	
Surrogate: Nitrobenzene-d5	81.3 %	10-138			"	"	"	"	
								n	

rth Creek Analytical - Bothell

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GNI, Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Carcinogenic Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-30-2 (B0K0574-22) Soil	Sampled: 11/21/00 14:5	59 Receive	d: 11/21/00	18:45					
Benzo (a) anthracene	ND	0.0500	mg/kg dry	5	0K29027	11/29/00	12/05/00	GCMS-SIM	
Benzo (a) pyrene	ND	0.0500	"	n	'n	н	Ħ	h	i
Benzo (b) fluoranthene	ND	0.0500	n	**	n	п	Ħ	п	
Benzo (k) fluoranthene	ND	0.0500	n	11	n		**	tr.	
Chrysene	ND	0.0500	11	н	n	n	h	n	
Dibenz (a,h) anthracene	ND	0.0500	n	**	77	n	n	n	į
Indeno (1,2,3-cd) pyrene	ND	0.0500	u	n	n	11	*	tı	,
Surrogate: 2-FBP	79.7 %	13-140			"	"	· "	"	
Surrogate: Nitrobenzene-d5	274 %	10-138			"	"	"	"	S-ti
Surrogate: p-Terphenyl-d14	109 %	19-137			17	"	"	"	
SB-30-5 (B0K0574-23) Soil	Sampled: 11/21/00 15:0	02 Receive	d: 11/21/00	18:45					,
Benzo (a) anthracene	ND	0.0100	mg/kg dry	1	0K29027	11/29/00	12/05/00	GCMS-SIM	11
Benzo (a) pyrene	ND	0.0100	"	n	"	Ħ	n	n	(
Benzo (b) fluoranthene	ND	0.0100	n	**	Ħ	n	71	n	`~ -
Benzo (k) fluoranthene	ND	0.0100	Ħ	11	н	n	n		i
Chrysene	ND	0.0100	n	n	"	**	н	17	ì
Dibenz (a,h) anthracene	ND	0.0100	n	н	**	n	"	n	
Indeno (1,2,3-cd) pyrene	ND	0.0100	ti	ti	"	"	U	17	í
Surrogate: 2-FBP	65.0 %	13-140			"	"	n	. "	
Surrogate: Nitrobenzene-d5	77. 7 %	10-138 .			"	"	,,	"	
Surrogate: p-Terphenyl-d14	110 %	19-137			"	•	"	"	,
SB-30-10 (B0K0574-24) Soi	l Sampled: 11/21/00 15	:10 Receiv	ed: 11/21/00	18:45					1
Benzo (a) anthracene	ND ND	0.0100	mg/kg dry	1	0K29027	11/29/00	12/02/00	GCMS-SIM	,
Benzo (a) pyrene	ND	0.0100	"	н	**	n	*		;
Benzo (b) fluoranthene	ND	0.0100	n	н	**	n	n	н	i
Benzo (k) fluoranthene	ND	0.0100	n	**	**,	n	Ħ	n	
Chrysene	ND	0.0100	11	**	н	Ħ	**	11	
Dibenz (a,h) anthracene	ND	0.0100	11	*1	n	11	n	11	. ;
Indeno (1,2,3-cd) pyrene	ND	0.0100	**	*1	**	11	n	iŧ	í
Surrogate: 2-FBP	70.1 %	13-140			"	"	"	#	
Surrogate: Nitrobenzene-d5	81.7 %	10-138			"	"	n	"	ſ
Surrogate: p-Terphenyl-d14	91.9 %	19-137			"	#	"	79	1

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

541.383.9310 fax 541.382.7588

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/11/00 16:49

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	porting			-				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-26-2 (B0K0574-01) Soil	Sampled: 11/21/00 08:35	Received	: 11/21/00	18:45					
Dry Weight	85.5	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-26-4 (B0K0574-02) Soil	Sampled: 11/21/00 08:40	Received	: 11/21/00	18:45					
Dry Weight	80.7	1.00	%	1	0K29008	11/29/00	11/29/00	BSOPSPL003R07	
SB-26-9 (B0K0574-03) Soil	Sampled: 11/21/00 08:50	Received	: 11/21/00	18:45					
Dry Weight	87.2	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-26-14 (B0K0574-04) Soil	Sampled: 11/21/00 08:58	Receive	d: 11/21/00	0 18:45					
Dry Weight	84.0	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-26-19 (B0K0574-05) Soil	Sampled: 11/21/00 09:02	Receive	d: 11/21/0	0 18:45					
Dry Weight	81.5	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SP-27-2 (B0K0574-06) Soil	Sampled: 11/21/00 09:55	Received	: 11/21/00	18:45					
y Weight	84.7	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-27-5 (B0K0574-07) Soil	Sampled: 11/21/00 10:05	Received	: 11/21/00	18:45					
Dry Weight	85.1	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-27-10 (B0K0574-08) Soil	Sampled: 11/21/00 10:11	Receive	d: 11/21/0	0 18:45					
Dry Weight	89.9	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-27-15 (B0K0574-09) Soil	Sampled: 11/21/00 10:20	Receive	d: 11/21/0	0 18:45			·		
Dry Weight	80.4	1.00	%	1 .	0K28052	11/28/00	11/29/00	BSOPSPL003R07	

orth Creek Analytical - Bothell

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Gill, Project Manager



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/11/00 16:49

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

	Re	porting							1
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-27-20 (B0K0574-10) Soil	Sampled: 11/21/00 10:25	Receive	d: 11/21/00	18:45					
Dry Weight	82.0	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-28-2 (B0K0574-11) Soil	Sampled: 11/21/00 11:15	Received	: 11/21/00	18:45					
Dry Weight	87.2	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-28-5 (B0K0574-12) Soil	Sampled: 11/21/00 11:24_	Received	: 11/21/00	18:45					
Dry Weight	80.1	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	1
SB-28-10 (B0K0574-13) Soil	Sampled: 11/21/00 11:34	Receive	d: 11/2 <u>1/</u> 0	0 18:45					
Dry Weight	81.6	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-28-15 (B0K0574-14) Soil	Sampled: 11/21/00 11:40	Receive	d: 11/21/0	0 18:45					
Dry Weight	82.9	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-28-20 (B0K0574-15) Soil	Sampled: 11/21/00 11:50	Receive	d: 11/21/0	0 18:45					; —;
Dry Weight	81.6	1.00	%	1	0K28052	11/28/00	11/29/00	BSOPSPL003R07	
SB-29-2 (B0K0574-16) Soil	Sampled: 11/21/00 13:25	Received	1: 11/21/00	18:45					
Dry Weight	88.2	1.00	%	1	0K28053	11/28/00	11/29/00	BSOPSPL003R07	!
SB-29-5 (B0K0574-17) Soil	Sampled: 11/21/00 13:29	Received	1: 11/21/00	18:45					
Dry Weight	80.7	1.00	%	1	0K28053	11/28/00	11/29/00	BSOPSPL003R07	1
SB-29-10 (B0K0574-18) Soil	Sampled: 11/21/00 13:37	Receive	ed: 11/21/0	0 18:45					
Dry Weight	82.1	1.00	%]	0K28053	11/28/00	11/29/00	BSOPSPL003R07	
									1

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	porting		_					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-29-15 (B0K0574-19) Soil	Sampled: 11/21/00 13:48	Receive	d: 11/21/00	18:45	_			- 	
Dry Weight	· 83.9	1.00	%	1	0K28053	11/28/00	11/29/00	BSOPSPL003R07	-
SB-29-20 (B0K0574-20) Soil	Sampled: 11/21/00 13:50	Receive	d: 11/21/00	18:45					
Dry Weight	82.0	1.00	%]	0K28053	11/28/00	11/29/00	BSOPSPL003R07	
SB-29-25 (B0K0574-21) Soil	Sampled: 11/21/00 13:55	Receive	d: 11/21/00	18:45					
Dry Weight	83.4	1.00	%	1	0K28053	11/28/00	11/29/00	BSOPSPL003R07	_
SB-30-2 (B0K0574-22) Soil	Sampled: 11/21/00 14:59	Received	: 11/21/00	18:45					
Dry Weight	78.6	1.00	%	1	0K28053	11/28/00	11/29/00	BSOPSPL003R07	
SB-30-5 (B0K0574-23) Soil	Sampled: 11/21/00 15:02	Received	: 11/21/00 1	18:45					
Dry Weight	84.8	1.00	%	1	0K28053	11/28/00	11/29/00	BSOPSPL003R07	
SB-30-10 (B0K0574-24) Soil	Sampled: 11/21/00 15:10	Receive	d: 11/21/00	18:45					
- Weight	84.7	1.00	%	1	0K28053	11/28/00	11/29/00	BSOPSPL003R07	
30-15 (B0K0574-25) Soil	Sampled: 11/21/00 15:15	Receive	d: 11/21/00	18:45					
Dry Weight	91.6	1.00	%	1	0K28053	11/28/00	11/29/00	BSOPSPL003R07	
SB-30-20 (B0K0574-26) Soil	Sampled: 11/21/00 15:20	Receive	d: 11/21/00	18:45					
Dry Weight	89.9	1.00	%	1	0K28053	11/28/00	11/29/00	BSOPSPL003R07	
SB-30-25 (B0K0574-27) Soil	Sampled: 11/21/00 15:25	Receive	d: 11/21/00	18:45					
Dry Weight	81.1	1.00	%	1	0K28053	11/28/00	11/29/00	BSOPSPL003R07	· · · · · · · · · · · ·

th Creek Analytical - Bothell

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Gill, Project Manager

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/11/00 16:49

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K26005: Prepared 11/26/0	0 Using E	PA 5030E	(MeOH)				_			
Blank (0K26005-BLK1)								•		
Gasoline Range Hydrocarbons	ND	5.00	mg/kg wet				-			
Benzene	ND	0.0500	н							
Toluene	ND	0.0500	**							
Ethylbenzene	ND	0.0500	11							
Xylenes (total)	ND	0.100	17							
Surrogate: 4-BFB (FID)	3.47		n	4.00		86.8	50-150			
Surrogate: 4-BFB (PID)	3.59		**	4.00		89.7	50-150			
LCS (0K26005-BS1)										
Gasoline Range Hydrocarbons	25.0	5.00	mg/kg wet	25.0		100	70-130			
Surrogate: 4-BFB (FID)	3.98		"	4.00		99.5	50-150			
Duplicate (0K26005-DUP1)					Source: 1	B0K0574-	27			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND		<u> </u>	5.13	50	
Surrogate: 4-BFB (FID)	3.70		"	4.93		75.I	50-150	_		
Duplicate (0K26005-DUP2)					Source: 1	B0K0574-	26			
Gasoline Range Hydrocarbons	41.4	5.00	mg/kg dry		18.7			75.5	50	Q-
Surrogate: 4-BFB (FID)	5.43	 -	"	4.45		122	50-150			
Matrix Spike (0K26005-MS1)					Source: 1	B0K0563-	.03			
Benzene	0.574	0.100	mg/kg dry	0.619	ND	90.6	60-140			
Toluene	0.590	0.100	"	0.619	ND	94.4	60-140			
Ethylbenzene	0.619	0.100	Ħ	0.619	ND	94.2	60-140			
Xylenes (total)	1.87	0.200	**	1.86	ND	94.0	60-140			
Surrogate: 4-BFB (PID)	5.06		"	4.95		102	50-150	-		
Matrix Spike Dup (0K26005-MSD1)					Source:	B0K0563-	-03			
Benzene	0.583	0.100	mg/kg dry	0.619	ND	92.1	60-140	1.56	20	
Toluene	0.578	0.100	"	0.619	ND	92.5	60-140	2.05	20	
Ethylbenzene	0.618	0.100	v	0.619	ND	94.0	60-140	0.162	20	
Xylenes (total)	1.93	0.200	U	1.86	ND	97.2	60-140	3.16	20	
Surrogate: 4-BFB (PID)	5.35		"	4.95	-	108	50-150			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/11/00 16:49

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K27018: Prepared 11/27/00	Using E	PA 5030B	(MeOH)							
Blank (0K27018-BLK1)										
Gasoline Range Hydrocarbons	ND	5.00	mg/kg wet					-		
Benzene	ND	0.0500	n							
Toluene	ND	0.0500	10							
Ethylbenzene	ND	0.0500	н							
Xylenes (total)	ND	0.100	n							
Surrogate: 4-BFB (FID)	3.45		"	4.00		86.3	50-150			
Surrogate: 4-BFB (PID)	3.69		"	4.00		92.3	50-150			
LCS (0K27018-BSI)										
Gasoline Range Hydrocarbons	24.7	5.00	mg/kg wet	25.0	•	98.8	70-130			
Surrogate: 4-BFB (FID)	3.97		"	4.00		99.3	50-150			
plicate (0K27018-DUP1)					Source: I	B0K0574-	01			
asoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND			15.0	50	
Surrogate: 4-BFB (FID)	3,42		"	4.68		73.1	50-150			
Duplicate (0K27018-DUP2)					Source: I	B0K0574-	10			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	**	ND			2.08	50	
Surrogate: 4-BFB (FID)	3.70			4.88		75.8	50-150			•,
Matrix Spike (0K27018-MS1)					Source: I	B0K0574-	03			
Benzene	0.538	0.0500	mg/kg dry	0.573	ND	93.2	60-140			
Toluene	0.559	0.0500	11	0.573	ND	97.0	60-140			
Ethylbenzene	0.544	0.0500	11	0.573	ND	94.9	60-140	•		
Xylenes (total)	1.67	0.100	**	1.72	ND	95.5	60-140			
Surrogate: 4-BFB (PID)	4.12	-	"	4.59		89.8	50-150			
Matrix Spike Dup (0K27018-MSD1)					Source: 1	B0K0574-	03			
Benzene	0.544	0.0500	mg/kg dry	0.573	ND	94.2	60-140	1.11	20	
Toluene	0.565	0.0500	11	0.573	ND	98.1	60-140	1.07	20	
Ethylbenzene	0.550	0.0500	n	0.573	ND	96.0	60-140	1.10	20	
Xylenes (total)	1.69	0.100	11	1.72	ND	96.7	60-140	1.19	20	
Surrogate: 4-BFB (PID)	3.81		,,	4.59	-	83.0	50-150			
- · ·										

orth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

Volatile Petroleum Hydrocarbons by modified WDOE Interim TPH Policy Method - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L04023:	Prepared 12/04/00	Using E	PA 5030B	(MeOH)			_				
Blank (0L04023-BLk	<u>(1)</u>										
C5-C6 Aliphatics		ND	5.00	mg/kg wet							
C6-C8 Aliphatics		ND	5.00	n							
C8-C10 Aliphatics		ND	5.00	**							
C10-C12 Aliphatics		ND	5.00	н							
C8-C10 Aromatics		ND	5.00	IT							
C10-C12 Aromatics		ND	5.00	r							
C12-C13 Aromatics		ND	5.00	Ħ							
Total VPH (TVPH)		ND	5.00	m							
Surrogate: 4-BFB (FID)		3.93		"	4.00		98.3	60-140			
Surrogate: 4-BFB (PID)		4.46		•	4.00		112	60-140			
LCS (0L04023-BS1)											* .;
Total VPH (TVPH)		12.2	5.00	mg/kg wet	12.0		102	70-130			 ,
Surrogate: 4-BFB (FID)		3.91		"	4.00		97.8	60-140			1
Surrogate: 4-BFB (PID)		4.37		"	4.00		109	60-140			i
Duplicate (0L04023-	DUP1)					Source: 1	B0K0574-	17			
C5-C6 Aliphatics		ND	100	mg/kg dry		ND			21.3	25	
C6-C8 Aliphatics		ND	100	n		ND			5.96	25	-
C8-C10 Aliphatics		ND	100	н		ND			20.8	25	
C10-C12 Aliphatics		192	100	n		238			21.4	25	(
C8-C10 Aromatics		ND	100	17		ND			20.8	25	1
C10-C12 Aromatics		106	100	Ħ		107			0.939	25	
C12-C13 Aromatics		327	100	n		364			10.7	25	
Total VPH (TVPH)		625	100	*1		709			12.6	25	
Surrogate: 4-BFB (FID)		0		"	4.96			60-140			S-0
Surrogate: 4-BFB (PID)		7.83		"	4.96		158	60-140			S-1

North Creek Analytical - Bothell

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Gill, Project Manager



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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588 Bend

Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS - Quality Control North Creek Analytical - Bothell

]	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K28037: Prepared 11/27/00	0 Using El	PA 5030B	[P/T]							
Blank (0K28037-BLK1)			_							
Methyl tert-butyl ether	ND	1.00	mg/kg wet							
Benzene	ND	0.100	n							
Toluene	ND	0.100	n							
Ethylbenzene	ND	0.100	n							
m,p-Xylene	ND	0.200	n							
o-Xylene	ND	0.100	n							
Naphthalene	ND	0.100	n							
Surrogate: 1,2-DCA-d4	2.07		"	2.00	_	103	70-130			
Surrogate: Toluene-d8	1.74		,,	2.00		87.0	70-130			
Surrogate: 4-BFB	2.18		"	2.00		109	70-130			
CS (0K28037-BS1)										
писпе	1.03	0.100	mg/kg wet	1.00		103	70-130			
Toluene	0.898	0.100	Ħ	1.00		89.8	70-130			
Surrogate: 1,2-DCA-d4	2.01	-	"	2.00		100	70-130		•	
Surrogate: Toluene-d8	1.87		"	2.00		93.5	70-130			
Surrogate: 4-BFB	1.95		"	2.00		97.5	70-130			
Matrix Spike (0K28037-MS1)					Source: I	B0K0613-	31			
Benzene	1.20	0.100	mg/kg dry	1.22	ND	98.4	70-130			
Toluene	0.924	0.100	n	1.22	ND	75.7	70-130			
Surrogate: 1,2-DCA-d4	2.80		"	2.44		115	70-130			
Surrogate: Toluene-d8	2.06		"	2.44		84.4	70-130			
Surrogate: 4-BFB	1.95		"	2.44		79.9	70-130			
Matrix Spike Dup (0K28037-MSD1)					Source: 1	B0K0613-	31			
Benzene	1.02	0.100	mg/kg dry	1.22	ND	83.6	70-130	16.2	20	
Toluene	0.862	0.100	n	1.22	ND	70.7	70-130	6.94	20	
Surrogate: 1,2-DCA-d4	2.95		"	2.44		121	70-130	-		
Surrogate: Toluene-d8	2.25		"	2.44		92.2	70-130			
Surrogate: 4-BFB	2.11		"	2.44		86.5	70-130			

orth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reporting

Reported:

RPD

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

		Reporting	** *.	Spike	D la	0/DEC	701CEC	מתת	11	Massa
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K28028: Prepared 11/28/00	Using 1	EPA 3550B	; 							
Blank (0K28028-BLK1)	•					_				
Diesel Range Hydrocarbons	ND	10.0	mg/kg wet	<u> </u>						
Lube Oil Range Hydrocarbons	ND	25.0	Ħ							
Surrogate: 2-FBP	9.47		"	10.7		88.5	50-150			
Surrogate: Octacosane	8.76		"	10.7		81.9	50-150			
LCS (0K28028-BS1)										
Diesel Range Hydrocarbons	70.6	10.0	mg/kg wet	66.7		106	60-140			
Surrogate: 2-FBP	8.93		"	10.7	-	83.5	50-150			
Duplicate (0K28028-DUP1)					Source: 1	B0K0574-	02			
Diesel Range Hydrocarbons	16.7	10.0	mg/kg dry		10.7			43.8	50	
Lube Oil Range Hydrocarbons	ND	25.0	*1		ND				50	
Surrogate: 2-FBP	11.9		п	13.2		90.2	50-150			
Surrogate: Octacosane	11.2		"	13.2		84.8	50-150			
Duplicate (0K28028-DUP2)					Source:	B0K0636-	09			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND				50	
Lube Oil Range Hydrocarbons	ND	25.0	n		ND				50	
Surrogate: 2-FBP	8.65	·	·,	11.6		74.6	50-150			
Surrogate: Octacosane	9.89		n	11.6		85.3	50-150			
Batch 0K28055: Prepared 11/28/00	Using	EPA 3550E								
Blank (0K28055-BLK1)			•		_					
Diesel Range Hydrocarbons	ND	10.0	mg/kg wet							
Lube Oil Range Hydrocarbons	ND	25.0	u							
Surrogate: 2-FBP	8.17		"	10.7		76.4	50-150			
Surrogate: Octacosane	8.07		"	10.7		75. <i>4</i>	50-150			

North Creek Analytical - Bothell

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Project Manager



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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/11/00 16:49

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

	_	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K28055: Prepared 11/28/00	Using I	EPA 3550B								
LCS (0K28055-BS1)										
Diesel Range Hydrocarbons	63.7	10.0	mg/kg wet	66.7		95.5	60-140			
Surrogate: 2-FBP	9.39		"	10.7	,	87.8	50-150		-	
Surrogate: Octacosane	9.58		"	10.7		89.5	50-150			
Duplicate (0K28055-DUP1)					Source: I	30K0668-	01			
Diesel Range Hydrocarbons	44.4	10.0	mg/kg dry		37.2			17.6	50	
Lube Oil Range Hydrocarbons	ND	25.0	H		ND			13.2	50	
Surrogate: 2-FBP	9.18		"	11.7		78.5	50-150			
Surrogate: Octacosane	8.58		"	11.7		73.3	50-150			
Duplicate (0K28055-DUP2)					Source: I	30K0668-	05		-	
Diesel Range Hydrocarbons	8870	110	mg/kg dry		8020			10.1	50	
be Oil Range Hydrocarbons	ND	275	n		ND			23.3	50	
Surrogate: 2-FBP	14.6		n	12.0		122	50-150		•	
Surrogate: Octacosane	10.4		<i>n</i>	12.0		86.7	50-150			
Batch 0K29005: Prepared 11/29/00	Using l	EPA 3550B	;							•
Blank (0K29005-BLK1)							-			
Diesel Range Hydrocarbons	ND	10.0	mg/kg wet							_
Lube Oil Range Hydrocarbons	ND	25.0	n							
Surrogate: 2-FBP	9.46		.,	10.7		88.4	50-150			
Surrogate: Octacosane	9.05		"	10.7		84.6	50-150			
LCS (0K29005-BS1)										
Diesel Range Hydrocarbons	70.1	10.0	mg/kg wet	66.7		105	60-140			-
Surrogate: 2-FBP	8.98		n	10.7	-	83.9	50-150			
Surrogate: Octacosane	9.66		"	10.7		90.3	50-150			

orth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K29005: Prepared 11/29/00	Using E	PA 3550B								<u> </u>
Duplicate (0K29005-DUP1)					Source: 1	B0K0574-	27			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND				50	
Lube Oil Range Hydrocarbons	ND	25.0	l7		ND			18.1	50	
Surrogate: 2-FBP	11.0		"	13.2		83.3	50-150	1		
Surrogate: Octacosane	10.9		"	13.2		82.6	50-150			
Duplicate (0K29005-DUP2)					Source:	B0K0576-	-08			
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND				50	
Lube Oil Range Hydrocarbons	ND	25.0	19		ND			23.1	50	
Surrogate: 2-FBP	9.75	-	н	13.2		73.9	50-150			
Surrogate: Octacosane	11.5		n	13.2		87.1	50-150			



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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

Extractable Petroleum Hydrocarbons by modified WDOE Interim TPH Policy Method - Quality Control North Creek Analytical - Bothell

	J	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L04002: Prepared 12/04/00	Using EF	PA 3550B								
Blank (0L04002-BLK1)										
C8-C10 Aliphatics	ND	5.00	mg/kg wet	-						
C10-C12 Aliphatics	ND	5.00	11							
C12-C16 Aliphatics	ND	5.00	10							
C16-C21 Aliphatics	ND	5.00	u							
C21-C34 Aliphatics	ND	5.00	"							
C10-C12 Aromatics	ND	5.00	"							
C12-C16 Aromatics	ND	5.00	n							
C16-C21 Aromatics	ND	5.00	71							
C21-C34 Aromatics	ND	5.00	u							
Extractable Petroleum Hydrocarbons	0		n							
rrogate: 2-FBP	9.70	-	"	12.1	•	80.2	50-150	,		
rrogate: Octacosane	10.5		"	12.3		85.4	50-150			
Surrogate: Undecane	9.66		"	13.2		73.2	30-150			
LCS (0L04002-BS1)										
Extractable Petroleum Hydrocarbons	137		mg/kg wet	167		82.0	30-120			
Surrogate: 2-FBP	10.8		"	12.1		89.3	50-150	-		
Surrogate: Octacosane	11.0		"	12.3		89.4	50-150			
Surrogate: Undecane	11.5		"	13.2		87.1	30-150			
LCS Dup (0L04002-BSD1)								•		
Extractable Petroleum Hydrocarbons	142	-	mg/kg wet	167		85.0	30-120	3.58	40	
Surrogate: 2-FBP	11.4		"	12.1		94.2	50-150			
Surrogate: Octacosane	11.1		"	12.3		90.2	50-150			
Surrogate: Undecane	10.4		"	13.2		78.8	30-150			
Matrix Spike (0L04002-MS1)					Source: I	B0K0345-	01			
Extractable Petroleum Hydrocarbons	2510		mg/kg dry	199	2240	136	30-120			Q-(
Surrogale: 2-FBP	13.6		"	14.5		93.8	50-150			
Surrogate: Octacosane	14.4		"	14.7		98.0	50-150			
Surrogate: Undecane	16.8		"	15.8		106	30-150			

orth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC	<u>-</u>	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L01037: Prepared 12/01/00	Using El	PA 3050B								
Blank (0L01037-BLK1)			_							
Lead	ND	0.500	mg/kg wet							
LCS (0L01037-BS1)										
Lead	25.3	0.500	mg/kg wet	25.0		101	80-120			
Matrix Spike (0L01037-MS1)					Source: I	B0K0574-	01			
Lead	21.5	0.347	mg/kg dry	20.3	3.19	90.2	70-130			
Matrix Spike Dup (0L01037-MSD1)					Source: 1	B0K0574-	01			
Lead	24.2	0.347	mg/kg dry	20.3	3.19	103	70-130	11.8	20	
Batch 0L01039: Prepared 12/01/00	Using E	PA 3050B						i		
Blank (0L01039-BLK1)										
Lead	ND	0.500	mg/kg wet						•	
LCS (0L01039-BS1)										
Lead	26.5	0.500	mg/kg wet	25.0		106	80-120			
Matrix Spike (0L01039-MS1)					Source:	B0K0574	-19			
Lead	22.6	0.331	mg/kg dry	19.7	3.86	95.1	70-130			·
Matrix Spike Dup (0L01039-MSD1)					Source:	B0K0574	-19			
Lead	22.0	0.331	mg/kg dry	19.7	3.86	92.1	70-130	2.69	20	

North Creek Analytical - Bothell

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Portland

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/11/00 16:49

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

LCS (0K29027-BS1)	Notes
Blank (0K29027-BLK1)	
Pentachlorophenol ND 0.0500 mg/kg wet	
Surrogate: 2,4,6-TBP	
LCS (0K29027-BS1) Pentachlorophenol 0.559 0.0500 mg/kg wet 0.667 83.8 30-150 Surrogate: 2,4,6-TBP 1.16 " 1.67 69.5 30-150 Matrix Spike (0K29027-MS1) Source: B0K0574-02 Pentachlorophenol 0.720 0.0500 mg/kg dry 0.827 0.108 74.0 25-200 Surrogate: 2,4,6-TBP 1.55 " 2.07 74.9 30-150 Matrix Spike Dup (0K29027-MSD1) Source: B0K0574-02 Matrix Spike Dup (0K29027-MSD1) Source: B0K0574-02 ntachlorophenol 0.787 0.0500 mg/kg dry 0.827 0.108 82.1 25-200 8.89 50 Surrogate: 2,4,6-TBP 1.44 " 2.07 69.6 30-150 Batch 0L05012: Prepared 12/05/00 Using EPA 3550B Blank (0L05012-BLK1)	
Pentachlorophenol 0.559 0.0500 mg/kg wet 0.667 83.8 30-150	
Surrogate: 2,4,6-TBP	
Matrix Spike (0K29027-MS1) Source: B0K0574-02 Pentachlorophenol 0.720 0.0500 mg/kg dry 0.827 0.108 74.0 25-200 Surrogate: 2,4,6-TBP 1.55 " 2.07 74.9 30-150 Matrix Spike Dup (0K29027-MSD1) Source: B0K0574-02 ntachlorophenol 0.787 0.0500 mg/kg dry 0.827 0.108 82.1 25-200 8.89 50 surrogate: 2,4,6-TBP 1.44 " 2.07 69.6 30-150 Batch 0L05012: Prepared 12/05/00 Using EPA 3550B Blank (0L05012-BLK1)	
Pentachlorophenol 0.720 0.0500 mg/kg dry 0.827 0.108 74.0 25-200 Surrogate: 2,4,6-TBP 1.55 " 2.07 74.9 30-150 Matrix Spike Dup (0K29027-MSD1) Source: B0K0574-02 ntachlorophenol 0.787 0.0500 mg/kg dry 0.827 0.108 82.1 25-200 8.89 50 surrogate: 2,4,6-TBP 1.44 " 2.07 69.6 30-150 Batch 0L05012: Prepared 12/05/00 Using EPA 3550B	
Surrogate: 2,4,6-TBP 1.55 " 2.07 74.9 30-150 Matrix Spike Dup (0K29027-MSD1) ntachlorophenol 0.787 0.0500 mg/kg dry 0.827 0.108 82.1 25-200 8.89 50 Surrogate: 2,4,6-TBP 1.44 " 2.07 69.6 30-150 Batch 0L05012: Prepared 12/05/00 Using EPA 3550B	
Matrix Spike Dup (0K29027-MSD1) Source: B0K0574-02 ntachlorophenol 0.787 0.0500 mg/kg dry 0.827 0.108 82.1 25-200 8.89 50 Surrogate: 2,4,6-TBP 1.44 " 2.07 69.6 30-150 Batch 0L05012: Prepared 12/05/00 Using EPA 3550B Blank (0L05012-BLK1)	
ntachlorophenol 0.787 0.0500 mg/kg dry 0.827 0.108 82.1 25-200 8.89 50 Surrogate: 2,4,6-TBP 1.44 " 2.07 69.6 30-150 Batch 0L05012: Prepared 12/05/00 Using EPA 3550B Blank (0L05012-BLK1)	
Surrogate: 2,4,6-TBP 1.44 " 2.07 69.6 30-150 Batch 0L05012: Prepared 12/05/00 Using EPA 3550B Blank (0L05012-BLK1)	
Batch 0L05012: Prepared 12/05/00 Using EPA 3550B Blank (0L05012-BLK1)	
Blank (0L05012-BLK1)	
Pentachlorophenol ND 0.0500 mg/kg wet	
7 Citation of premote and the control of the contro	-
Surrogate: 2,4,6-TBP 1.08 " 1.67 64.7 30-150	
LCS (0L05012-BS1)	
Pentachlorophenol 0.321 0.0500 mg/kg wet 0.667 48.1 30-150	
Surrogate: 2,4,6-TBP 1.42 " 1.67 85.0 30-150	
Matrix Spike (0L05012-MS1) Source: B0L0075-01	
Pentachlorophenol 2.01 0.250 mg/kg dry 0.739 1.96 6.77 25-200	
Surrogate: 2,4,6-TBP 1.10 " 1.85 59.5 30-150	Q-

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

		I	Reporting		Spike	Source		%REC		RPD	,
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L05012:	Prepared 12/05/00	Using EF	'A 3550B								
Matrix Spike Dup	(0L05012-MSD1)		·-			Source: I	BOL0075-	01			
	· · · · · · · · · · · · · · · · · · ·	2.09	0.250	mg/kg dry	0.739	1.96	17.6	25-200	3.90	50	Q-=:*
Pentachlorophenol		2.07	0.250								

North Creek Analytical - Bothell

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Bend_.

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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

Project Number: n/a

Reported:

12/11/00 16:49

Carcinogenic Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source	-	%REC	,	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K29027: Prepared 11/29/0	Using I	EPA 3550B	,				·			
Blank (0K29027-BLK1)										
Benzo (a) anthracene	ND	0.0100	mg/kg wet	•					-	
Benzo (a) pyrene	ND	0.0100	ı							
Benzo (b) fluoranthene	ND	0.0100	b							
Benzo (k) fluoranthene	ND	0.0100	11							
Chrysene	ND	0.0100	11							
Dibenz (a,h) anthracene	ND	0.0100	n							
Indeno (1,2,3-cd) pyrene	ND	0.0100	·							
Surrogate: 2-FBP	1.14		` "	1.67		68.3	13-140			
Surrogate: Nitrobenzene-d5	1.33		u	1.67		79.6	10-138			
Surrogate: p-Terphenyl-d14	1.53		"	1.67		91.6	19-137			
CS (0K29027-BS1)										
ysene	0.264	0.0100	mg/kg wet	0.333		79.3	51-124		•	
Indeno (1,2,3-cd) pyrene	0.305	0.0100	п	0.333		91.6	27-148			
Surrogate: 2-FBP	1.12		"	1.67		67.1	13-140			
Surrogate: Nitrobenzene-d5	1.33		"	1.67		79.6	10-138			
Surrogaie: p-Terphenyl-d14	1.44		"	1.67		86.2	19-137			
Matrix Spike (0K29027-MS1)					Source: E	30K0574-	02			
Chrysene	0.310	0.0100	mg/kg dry	0.413	ND	75.1	15-147			
Indeno (1,2,3-cd) pyrene	0.365	0.0100	**	0.413	ND	88.4	10-179			
Surrogate: 2-FBP	1.44	····	"	2.07		69.6	13-140			
Surrogate: Nitrobenzene-d5	1.63		"	2.07		78.7	10-138			
Surrogate: p-Terphenyl-d14	1.77		"	2.07		85.5	19-137			
Matrix Spike Dup (0K29027-MSD1)					Source: I	30K0574-	02			
Chrysene	0.345	0.0100	mg/kg dry	0.413	ND	83.5	15-147	10.7	37	_
Indeno (1,2,3-cd) pyrene	0.414	0.0100	n	0.413	ND	100	10-179	12.6	53	
Surrogate: 2-FBP	1.51		"	2.07		72.9	13-140			
Surrogate: Nitrobenzene-d5	1.71		"	2.07		82.6	10-138			
Surrogate: p-Terphenyl-d14	1.90		"	2.07		91.8	19-137			

rth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/11/00 16:49

RPD

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result · %	REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0K28052:	Prepared 11/28/00	Using	Dry Weight								
Blank (0K28052-Bl	LK1)										
Dry Weight		100	1.00	%							!
Batch 0K28053:	Prepared 11/28/00	Using	Dry Weight								
Blank (0K28053-B)	LK1)										
Dry Weight		100	1.00	%							
Batch 0K29008:	Prepared 11/29/00	Using	Dry Weight								
Blank (0K29008-B)	LK1)				<u> </u>						
Dry Weight		100	1.00	%							

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

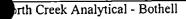
Reported:

12/11/00 16:49

Notes and Definitions

D-09	Results in the diesel organics range	are primarily due to overla	p from a heavy oil range product.
1 1-117	RESULTS III THE GIESCI OFERINGS TWIFE	die printant, dae to o er and	p nom a near j on renge pre

- Results reported for the gas range are primarily due to overlap from diesel range hydrocarbons. G-01
- The percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already Q-03 present in the sample.
- The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does Q-07 not represent an out-of-control condition for the batch.
- The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the R-03 sample.
- The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or S-01 matrix interferences.
- The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds S-02 present in the sample.
- The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for S-03 this surrogate does not represent an out-of-control condition.
- The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. -04
- Due to interference from coeluting organic compounds with the primary surrogate, results of the secondary surrogate have been S-05 used to control the analysis.
- The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interferences.
- DET Analyte DETECTED
- Analyte NOT DETECTED at or above the reporting limit ND
- NR Not Reported
- Sample results reported on a dry weight basis dry
- Relative Percent Difference RPD



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> North Creek Analytical, Inc. Environmental Laboratory Network



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(503) 906-9200 FAX 906-9 (541) 383-9310 FAX 382-7

FAX 924-9290 FAX 906-9210 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: B0K0574

CLIENT: TIME OIL COM	PANUY/ Fos	ren Wilcel	er_		_	INVO	ICE TO	: 7/	ME	OIL	CON	1PA N	/L/			TUR	VAROU	ND I	REQUEST in Business I	Days*
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** Tkwy ** * ** ; 400 Post-11, WA 08011-8244 East 11115 Montgomery, Suite B, Spokane, Wi 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenuc, Suite F-1, Bend, OR 97701-5711 (425) 420-9200 FAX 420-9210

9210 (503) 906-9200 (541) 383-9310 FAX 382-7588

Work Order #: Bokos74 CHAIN OF CUSTODY REPORT

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/15/00 12:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01MW06	B0L0028-01	Water	11/30/00 15:30	11/30/00 18:20
02MW06	B0L0028-02	Water	11/30/00 16:15	11/30/00 18:20
Trip Blank	B0L0028-03	Water	11/30/00 15:15	11/30/00 18:20

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/15/00 12:11

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW06 (B0L0028-01) Water	Sampled: 11/30/00	15:30 Recei	ived: 11/30	/00 18:20					
Gasoline Range Hydrocarbons	87.4	50.0	ug/l	1	0L07007	12/07/00	12/07/00	NWTPH-Gx/8021B	
Benzene	ND	0.500	u	**	"	*1	H	11	ı
Toluene	ND	0.500	**	**	"	11	17	11	,
Ethylbenzene	ND	0.500	*1	n	"	n	n	ti	
Xylenes (total)	ND	1.00	"	tı	"	**	11	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Surrogate: 4-BFB (FID)	114%	50-150			"	" "	"	n	;
Surrogate: 4-BFB (PID)	104 %	50-150			n	"	"	. "	,
02MW06 (B0L0028-02) Water	Sampled: 11/30/00	16:15 Rece	ived: 11/30	/00 18:20					
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	0L07007	12/07/00	12/07/00	NWTPH-Gx/8021B	
Benzene	ND	0.500	. "	**	U	"	11	n	
Toluene	ND	0.500	н	Ħ	"	**	n	Ħ	
Ethylbenzene	ND	0.500	**	þ	n	11	11	p	ړ٠۷
Xylenes (total)	ND	1.00	n	Ħ	n			n	
Surrogate: 4-BFB (FID)	101 %	50-150		<u> </u>	"	. "	"	"	`~-
Surrogate: 4-BFB (PID)	102 %	50-150			n	,	"	"	1
Trip Blank (B0L0028-03) Water	r Sampled: 11/30/0	00 15:15 Re	ceived: 11/	30/00 18:20		·			
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	0L07007	12/07/00	12/07/00	NWTPH-Gx/8021B	
Benzene	ND	0.500	n	n	p	Ħ	*1	n	ļ
Toluene	ND	0.500	17	**	**	**	. "	n	1
Ethylbenzene	ND	0.500	U	17	**	n	**	n	
Xylenes (total)	ND	1.00	**	н	n	*	**		;
Surrogate: 4-BFB (FID)	98.5 %	50-150	-		. "		"	"	
Surrogate: 4-BFB (PID)	102 %	50-150			"	"	**	"	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/15/00 12:11

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Analyte	Analyte		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW06 (B0L002	28-01) Water	Sampled: 11/30/00	15:30 Rece	ived: 11/3(0/00 18:20					
Diesel Range Hyd	rocarbons	0.764	0.250	mg/l	1	0L05008	12/05/00	12/06/00	NWTPH-Dx	
Lube Oil Range Hy	drocarbons	ND	0.500	n	11	n	17	n	17	
Surrogate: 2-FBP		78.4 %	50-150	•		"	٠ ,,	"	"	
Surrogate: Octaco.	sane	85.9 %	50-150			"	"	"	"	
02MW06 (B0L002	28-02) Water	Sampled: 11/30/00	16:15 Rece	ived: 11/3(0/00 18:20					
Diesel Range Hyd	rocarbons	1.00	0.250	mg/l	. 1	0L05008	12/05/00	12/06/00	NWTPH-Dx	
Lube Oil Range Hy	drocarbons	ND	0.500	n	n	n	"	lt .	Ħ	_
Surrogate: 2-FBP		78.7 %	50-150			"	"	"	"	
Surrogate: Octaco	sane	85.7 %	50-150			"	,,	"	"	



11720 NORTH CFEEK FRWY N, SUITE 400, BUTHER, WAS 36011-02 425.420.9200 fax 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 Spokane

541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/15/00 12:11

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

		Reporting							1
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW06 (B0L0028-01) Water	Sampled: 11/30/00	15:30 Rece	ived: 11/3(0/00 18:20		_			
Lead	ND	0.00100	mg/l	1	0L12014	12/12/00	12/13/00	EPA 6020	
02MW06 (B0L0028-02) Water	Sampled: 11/30/00	16:15 Rece	ived: 11/30	0/00 18:20		•			
Lead	ND	0.00100	mg/l	1	0L12014	12/12/00	12/13/00	EPA 6020	

North Creek Analytical - Bothell

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Spokane

Portland 503.906.9200 fax 503.906.9210

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/15/00 12:11

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW06 (B0L0028-01) Water	Sampled: 11/30/00	15:30 Recei	ived: 11/30	0/00 18:20				<u> </u>	
Pentachlorophenol	1.80	0.500	ug/l	1	0L06003	12/06/00	12/07/00	GCMS-SIM	_
Surrogate: 2,4,6-TBP	77.6 %	30-150			"	"	"	"	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II Project Number: n/a 12100 NE 195th Street

Project Manager: Bryan Graham

Reported:

Bothell WA, 98011

12/15/00 12:11

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

Donult								
Kesun	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sampled: 11/30/00	15:30 Recei	ived: 11/30	0/00 18:20					
0.171	0.100	ug/l	1	0L06003	12/06/00	12/07/00	GCMS-SIM	
ND	0.100	11	17	n	"	n	19	1
ND	0.100	If	n	11	n	n	11	1
ND	0.100	n	11	h	**	н	II	,
ND	0.100	**	11	n	. "	'n	11	
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ND	0.100	**	n	n	"	n	**	<u> </u>
ND	0.100	n	"	**	11	n	н	1
0.285	0.100	n	n	tı	**	11	w	
ND	0.100	n	17	**	tr	n	**	× * (
0.626	0.100	Ħ	**	n	n		et .	(*
0.474	0.100	**	"	n	**	Ħ	**	` -'
ND	0.100	н	п	. <u>_</u>	17	11	н	
60.5 %	12-107			"	"	"	n	_,
66.5 %	10-115			"	n	n	"	•
104 %	28-103		•	"	"	"	P	S-0
	0.171 ND ND ND ND ND ND ND ND ND ND	Sampled: 11/30/00 15:30 Received 0.171 0.100 ND 0.100 0.626 0.100 ND 0.100 ND 0.100 0.474 0.100 ND 0.100 60.5 % 12-107 66.5 % 10-115	Sampled: 11/30/00 15:30 Received: 11/30 0.171	Sampled: 11/30/00 15:30 Received: 11/30/00 18:20 0.171 0.100 ug/l 1 ND 0.100 " " 0.285 0.100 " " ND 0.100 " " 0.626 0.100 " " 0.474 0.100 " " 0.5 % 12-107 66.5 % 10-115	Sampled: 11/30/00 15:30 Received: 11/30/00 18:20 0.171	Sampled: 11/30/00 18:20 0.171 0.100 ug/l 1 0L06003 12/06/00 ND 0.100 " " " " " ND 0.100 " " " " " " ND 0.100 " " " " " " ND 0.100 " " " " " " ND 0.100 " " " " " " ND 0.100 " " " " " " ND 0.100 " " " " " " ND 0.100 " " " " " " ND 0.100 " " " " " " ND 0.100 " " " " " " 0.285 0.100 " " " " " " ND 0.100 " " " " " " 0.626 0.100 " " " " " " 0.474 0.100 " " " " " " ND 0.100 " " " " " " 60.5 % 12-107 (66.5 % 10-115 " " " "	Sampled: 11/30/00 15:30 Received: 11/30/00 18:20 0.171	Sampled: 11/30/00 15:30 Received: 11/30/00 18:20

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II Project Number: n/a 12100 NE 195th Street

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/15/00 12:11

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

 		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L07007: Prepared 12/07/00	Using EF	PA 5030B ((P/T)							
Blank (0L07007-BLK1)	-									
Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	**							
l'oluene	ND	0.500	n							
Ethylbenzene	ND	0.500	n							
Kylenes (total)	ND	1.00	**							
Surrogate: 4-BFB (FID)	48.0		"	48.0		100	50-150			
Surrogate: 4-BFB (PID)	49.4		"	48.0		103	50-150			
LCS (0L07007-BS1)										
Gasoline Range Hydrocarbons	429	50.0	ug/l	500		85.8	70-130			
ogate: 4-BFB (FID)	51.3		"	48.0		107	50-150			
olicate (0L07007-DUP1)					Source: 1	B0 K 0709-	-03			
Gasoline Range Hydrocarbons	12900	100	ug/l		13100			1.54	25	
Surrogate: 4-BFB (FID)	43.7		n	48.0		91.0	50-150	_		
Duplicate (0L07007-DUP2)					Source: 1	B0K0709-	-10			
Gasoline Range Hydrocarbons	ND	50.0	ug/l		ND			20.3	25	
Surrogate: 4-BFB (FID)	47.7		11	48.0		99.4	50-150			
Matrix Spike (0L07007-MS1)					Source:	B0K0709	-01			
Benzene	9.33	0.500	ug/l	10.0	ND	91.7	70-130			
Toluene	10.1	0.500	11	10.0	ND	98.5	70-130			
Ethylbenzene	10.5	0.500	n	10.0	ND	104	70-130			
Xylenes (total)	31.1	1.00	H	30.0	ND	102	70-130			
Surrogate: 4-BFB (PID)	49.7		"	48.0		104	50-150	_		
Matrix Spike Dup (0L07007-MSD1)					Source:					
Benzene	9.25	0.500	ug/l	10.0	ND	90.9	70-130	0.861	15	
Toluene	10.1	0.500	11	10.0	ND	98.5	70-130	0	15	
Ethylbenzene	10.5	0.500	11	10.0	ND	104	70-130	0	15	
Xylenes (total)	30.9	1.00	ti	30.0	ND	102	70-130	0.645	15	
Surrogate: 4-BFB (PID)	50.4		"	48.0	_	105	50-150			

rth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/15/00 12:11

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

· -		Reporting		1 Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L05008: Prepared 12/05/00	Using E	PA 3510C/	600 Serie	es	_					
Blank (0L05008-BLK1)				1						٠
Diesel Range Hydrocarbons	ND	0.250	mg/l				-			
Lube Oil Range Hydrocarbons	ND	0.500	n							
Surrogate: 2-FBP	0.231		"	0.320		72.2	50-150			
Surrogate: Octacosane	0.246		"	0.320		76.9	50-150			
LCS (0L05008-BS1)				1						
Diesel Range Hydrocarbons	1.56	0.250	mg/l	2.00		78.0	60-140			
Surrogate: 2-FBP	0.226		,,	0.320		70.6	50-150			
LCS Dup (0L05008-BSD1)				•						
Diesel Range Hydrocarbons	1.80	0.250	mg/l	2.00		90.0	60-140	14.3	40	
Surrogate: 2-FBP	0.268		"	0.320	·	83.8	50-150			1

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II Project Number: n/a

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

12/15/00 12:11

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Lesult Limit		Level	Result	%REC	%REC Limits	RPD	Limit	Notes
Batch 0L12014:	Prepared 12/12/00	Using E	PA 3020A								
Blank (0L12014-BI											
Lead		ND	0.00100	mg/l		<u> </u>					
LCS (0L12014-BS1)										
Lead		0.191	0.00100	mg/l	0.200		95.5	80-120			
Matrix Spike (0L12	2014-MS1)					Source: I	B0L0028-0	02			
Lead	<u>-</u>	0.203	0.00100	mg/l	0.200	ND	101	75-125		 	
Matrix Spike Dup (latrix Spike Dup (0L12014-MSD1)					Source: 1	B0L0028-	02			
Lead		0.192	0.00100	mg/l	0.200	ND	95.9	75-125	5.57	20	



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12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/15/00 12:11

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

11			Reporting	_	Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result -	%REC	Limits	RPD	Limit	Notes
Batch 0L06003:	Prepared 12/06/00	Using E	PA 3520C/	600 Series				•			
Blank (0L06003-BL	.K1)	-									
Pentachlorophenol		ND	0.500	ug/l				_			
Surrogate: 2,4,6-TBP		40.5		"	50.0	-	81.0	30-150			
LCS (0L06003-BS1))										
Pentachlorophenol		6.44	0.500	ug/l	20.0		32.2	30-150		-	
Surrogate: 2,4,6-TBP		36.7		н	50.0		73.4	30-150			
LCS Dup (0L06003	-BSD1)										
Pentachlorophenol		8.04	0.500	ug/l	20.0		40.2	30-150	22.1	50	_
Surrogate: 2,4,6-TBP	•	39.7.		"	50.0		79.4	30-150			_

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Project Number: n/a Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/15/00 12:11

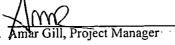
Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

Project: West Commodore Way Phase II

		Reporting	·	Spike	Source		%REC	_	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L06003: Prepared 12/0	6/00 Using El	PA 3520C/0	600 Series						·	
Blank (0L06003-BLK1)			-			_				
Acenaphthene	ND	0.100	ug/l	·				•		
Acenaphthylene	ND	0.100	н							
Anthracene	ND	0.100	n							
Benzo (a) anthracene	ND	0.100	71							
Benzo (a) pyrene	ND	0.100	71							
Benzo (b) fluoranthene	ND	0.100	h							
Benzo (ghi) perylene	ND	0.100	n			,				
Benzo (k) fluoranthene	ND	0.100	N							
Chrysene	ND	0.100	*1			-				
Dibenz (a,h) anthracene	ND	0.100	ħ							
Fluoranthene	ND	0.100	lr .							
rene	ND	0.100	n							
mueno (1,2,3-cd) pyrene	ND	0.100	n							
Naphthalene	ND	0.100	Ħ							
Phenanthrene	ND	0.100	n							
Ругепе	ND	0.100	n							
Surrogate: 2-FBP	31.6		"	50.0		63.2	12-107			
Surrogate: Nitrobenzene-d5	<i>38.3</i>		n	50.0		76.6	10-115			
Surrogate: p-Terphenyl-d14	54.8		"	50.0		110	28-103			S-0
LCS (0L06003-BS1)										
Chrysene	7.86	0.100	ug/l	10.0		78.6	50-123			
Fluorene	6.50	0.100	"	10.0		65.0	31-132			
Indeno (1,2,3-cd) pyrene	7.16	0.100	n	10.0		71.6	27-146			
Surrogate: 2-FBP	32.0		"	50.0		64.0	12-107			
Surrogate: Nitrobenzene-d5	34.2		"	50.0		68. <i>4</i>	10-115			
Surrogate: p-Terphenyl-d14	49.3		"	50.0		98.6	28-103			

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/15/00 12:11

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	_
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L06003:	Prepared 12/06/00	Using EF	A 3520C/	600 Series	 						
LCS Dup (0L06003-	BSD1)										
Chrysene		8.06	0.100	ug/l	10.0		80.6	50-123	2.51	27	
Fluorene		6.38	0.100	11	10.0		63.8	31-132	1.86	36	
Indeno (1,2,3-cd) pyren	e	6.86	0.100	Ħ	10.0		68.6	27-146	4.28	31	
Surrogate: 2-FBP		32.0		"	50.0		• 64.0	12-107			
Surrogate: Nitrobenzen	e-d5	35.4		"	50.0		70.8	10-115			
Surrogate: p-Terphenyl		49.6		"	50.0		99.2	<i>28-103</i>			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/15/00 12:11

Notes and Definitions

The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for S-03 this surrogate does not represent an out-of-control condition.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

Not Reported NR

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

th Creek Analytical - Bothell

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(503) 906-9200 FAX 906-9210 (541) 383-9310 FAX 382-7588

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/03/00 16:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
SB-02-W	B0K0456-01	Water	11/16/00 16:00	11/16/00 20:10	
02MW-01	B0K0456-02	Water	11/16/00 08:50	11/16/00 20:10	
02MW-02	B0K0456-03	Water	11/16/00 07:45	11/16/00 20:10	
02MW-03	B0K0456-04	Water	11/16/00 15:33	11/16/00 20:10	
02MW-04	B0K0456-05	Water	11/16/00 15:10	11/16/00 20:10	
02MW-05	B0K0456-06	Water	11/16/00 12:25	11/16/00 20:10	
01MW-01	B0K0456-07	Water	11/16/00 17:55	11/16/00 20:10	
01MW-02	B0K0456-08	Water	11/16/00 13:35	11/16/00 20:10	
01MW-03	B0K0456-09	Water	11/16/00 14:00	11/16/00 20:10	
01MW-04	B0K0456-10	Water	11/16/00 14:30	11/16/00 20:10	
02MW-04A	B0K0456-11	Water	11/16/00 15:10	11/16/00 20:10	

rth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/03/00 16:25

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-02-W (B0K0456-01) Water	Sampled: 11/16/00	16:00 Rece	ived: 11/16	5/00 20:10					
Gasoline Range Hydrocarbons	134	50.0	ug/l	1	0K25009	11/25/00	11/26/00	NWTPH-Gx/8021B	
Benzene	ND	0.500	n	U	tı tı	H	"	u	r=-
Toluene	ND	0.500	n	ti	h	11	H	n	,
Ethylbenzene	ND	0.500	n	tt	17	н	tı	"1	1
Xylenes (total)	ND	1.00	'n	11	11	H	н	II .	
Surrogate: 4-BFB (FID)	103 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	105 %	50-150			"	"	"	"	, - ,
02MW-01 (B0K0456-02) Water	Sampled: 11/16/0	0 08:50 Rec	eived: 11/1	6/00 20:10			_		
Gasoline Range Hydrocarbons	79.0	50.0	ug/l	1	0K18007	11/18/00	11/19/00	NWTPH-Gx/8021B	
Benzene	19.6	0.500	D	11	*1	11	17	н	
Toluene	1.04	0.500	D	0	ħ	ħ	17	#	
Ethylbenzene	ND	0.500	ti	'n	11	n	n		- 1
Xylenes (total)	2.35	1.00	"	H	n	**	N	n	_{
Surrogate: 4-BFB (FID)	86.5 %	50-150	_		ıt	"	"	"	
Surrogate: 4-BFB (PID)	93.3 %	50-150			"	n	u	· • •	
02MW-02 (B0K0456-03) Water	Sampled: 11/16/0	0 07:45 Rec	eived: 11/1	6/00 20:10					}
Gasoline Range Hydrocarbons	55.0	50.0	ug/l	1	0K18007	11/18/00	11/19/00	NWTPH-Gx/8021B	
Benzene	ND	0.580	n	n	11	n	**	19	R-
Toluene .	1.63	0.500	n	u	n	Ħ	"	n	
Ethylbenzene	0.598	0.500	11	Ħ	"	II.	и	H	
Xylenes (total)	3.28	1.00	н	17	н	H	n	N .	r
Surrogate: 4-BFB (FID)	88.7 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	94.8 %	50-150			"	"	"	"	1,

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/03/00 16:25

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02MW-03 (B0K0456-04) Water	Sampled: 11/16/0	0 15:33 Rec	eived: 11/1	6/00 20:10					
Gasoline Range Hydrocarbons	241	125	ug/l	2.5	0K18007	11/18/00	11/19/00	NWTPH-Gx/8021B	
Benzene	118	1.25	H	n	n	17	h	n	
Toluene	2.05	1.25	n	h	lt .	Ħ	n	n	
Ethylbenzene	ND	1.25	11	11	н -	r	17	li .	
Xylenes (total)	ND	2.50	H	".	D	n	n	. "	
Surrogate: 4-BFB (FID)	82.1 %	50-150			"	" -	"	ıı	_
Surrogate: 4-BFB (PID)	94.2 %	50-150			"	"	"	"	
02MW-04 (B0K0456-05) Water	Sampled: 11/16/0	0 15:10 Rec	eived: 11/1	6/00 20:10					
Gasoline Range Hydrocarbons	9020	1250	ug/l	25	0K18007	11/18/00	11/19/00	NWTPH-Gx/8021B	
Benzene	ND	22.2	н	н	H	**	11/21/00	ir	R-03
Toluene	972	12.5	H	n	17	Ħ	11/19/00	n	
E thylbenzene	617	12.5	h	н	. "	н .	11	U	
lenes (total)	1840	25.0	n	n	17	11	n	n	
unrogate: 4-BFB (FID)	100 %	50-150	-		"	"	"	"	_
Surrogate: 4-BFB (PID)	110 %	50-150			"	,,	"	n	
02MW-05 (B0K0456-06) Water	Sampled: 11/16/0	0 12:25 Rec	eived: 11/1	6/00 20:10					
Gasoline Range Hydrocarbons	64.0	50.0	ug/l	1	0K18007	11/18/00	11/19/00	NWTPH-Gx/8021B	
Benzene	ND	0.500	n	17	n	n	11	H	
Toluene	ND	0.500	17	и	n	n	n	Ħ	
Ethylbenzene	ND	0.500	n	11	17	n	n	11	
Xylenes (total)	1.17	1.00	n	n	l7	n	Ħ	Ħ	
Surrogate: 4-BFB (FID)	86.5 %	50-150		_	"	"	"	"	-
Surrogate: 4-BFB (PID)	98.5 %	50-150			<i>n</i> ·	"	"	"	
·									

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/03/00 16:25

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-01 (B0K0456-07) Water	Sampled: 11/16/00	17:55 Rec	eived: 11/1	6/00 20:10					1
Gasoline Range Hydrocarbons	75.2	50.0	ug/l	1	0K25009	11/25/00	11/26/00	NWTPH-Gx/8021B	
Benzene	0.924	0.500	n	n	n	H	n	m	1
Toluene	1.46	0.500	11	Ħ	n	11	n		
Ethylbenzene	ND	0.500	n	#	11	n	**	' π	
Xylenes (total)	1.93	. 1.00	**	47	n	*1	**	H	
Surrogate: 4-BFB (FID)	114 %	50-150			11	"	"	n	1
Surrogate: 4-BFB (PID)	103 %	50-150			"	"	H	, #	ł
01MW-02 (B0K0456-08) Water	Sampled: 11/16/00	0 13:35 Rec	eived: 11/1	6/00 20:10		·		i	
Gasoline Range Hydrocarbons	12700	2500	ug/l	50	0K25009	11/25/00	11/26/00	NWTPH-Gx/8021B	
Benzene	3300	25.0	11	11	n	IT	11	n	
Toluene	1010	25.0	11	71	**	þ	77	H	
Ethylbenzene	331	25.0	n	n	11	**	**	"	_
Xylenes (total)	1510	50.0	Ħ	"	li				_(
Surrogate: 4-BFB (FID)	112 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	100 %	50-150			"	"	"	, "	
01MW-03 (B0K0456-09) Water	Sampled: 11/16/00	0 14:00 Rec	eived: 11/1	6/00 20:10				1	ļ.
Gasoline Range Hydrocarbons	3620	500	ug/i	10	0K25009	11/25/00	11/26/00	NWTPH-Gx/8021B	
Benzene	1020	5.00	Ħ	н	**	11	n	, "	- 1
Toluene	26.9	5.00	11	**	tř	•	n	n	į d
Ethylbenzene	63.6	5.00	н	n		tr	11	11	-
Xylenes (total)	210	10.0	n	"	н	` II	n .		
Surrogate: 4-BFB (FID)	108 %	50-150			"	"	"	, , , , , , , , , , , , , , , , , , ,	. —-
Surrogate: 4-BFB (PID)	101 %	50-150			"	"	"	,	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Bend

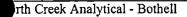
12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham Reported:

12/03/00 16:25

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
01MW-04 (B0K0456-10) Water		0 14:30 Rec	eived: 11/1	16/00 20:10					
Gasoline Range Hydrocarbons	7930	1000	ug/l	20	0K25009	11/25/00	11/26/00	NWTPH-Gx/8021B	
Benzene	71.2	10.0	"	11	11	11	n	11	
Toluene	402	10.0	н	11	19	Ħ	n	*1	
Ethylbenzene	570	10.0	н	11	U	11	n	н	
Xylenes (total)	2840	20.0	n	n	n	n	п	n	
Surrogate: 4-BFB (FID)	108 %	50-150			n	"	n	"	
Surrogate: 4-BFB (PID)	110 %	50-150			"	"	"	"	
02MW-04A (B0K0456-11) Water	Sampled: 11/16	00 15:10 R	eceived: 11	1/16/00 20:1	0				
Gasoline Range Hydrocarbons	9650	2500	ug/l	50	0K18007	11/18/00	11/19/00	NWTPH-Gx/8021B	
Benzene	ND	25.0	"	n	11	U	11/21/00	n	
Toluene	996	25.0	"	P	*1	tı	11/19/00	11	
Ethylbenzene	627	25.0	"	n	"	11	11	71	
lenes (total)	1850	50.0	n	IF	n	"	11	n	
Surrogate: 4-BFB (FID)	94.2 %	50-150			11	"	"	"	
Surrogate: 4-BFB (PID)	101 %	50-150			"	n	"	"	





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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Manager: Bryan Graham

12/03/00 16:25

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

		Reporting		_					1
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-02-W (B0K0456-01) Water	Sampled: 11/16/00	16:00 Rece	ived: 11/1(5/00 20:10					
Diesel Range Hydrocarbons	3.60	1.25	mg/l	5	0K20008	11/20/00	11/21/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	2.50	'n	n	n	n	n	W	
Surrogate: 2-FBP	70.4 %	50-150			"	n	"	n n	
Surrogate: Octacosane	76.0 %	50-150			"	n	"	"	
02MW-01 (B0K0456-02) Water	Sampled: 11/16/0	0 08:50 Rec	eived: 11/1	6/00 20:10					
Diesel Range Hydrocarbons	0.488	0.250	mg/l	1	0K18001	11/18/00	11/20/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	Ħ			H	"	
Surrogate: 2-FBP	77.7 %	50-150	_		n	"	"	"	
02MW-02 (B0K0456-03) Water	Sampled: 11/16/0	0 07:45 Rec	eived: 11/1	6/00 20:10					· i
Diesel Range Hydrocarbons	0.666	0.250	mg/l	1	0K18001	11/18/00	11/19/00	NWTPH-Dx	-
Lube Oil Range Hydrocarbons	ND	0.500	ıı	n	n	U	11	19	
Surrogate: 2-FBP	86.5 %	50-150			"	**	n	"	
02MW-03 (B0K0456-04) Water	Sampled: 11/16/0	0 15:33 Rec	eived: 11/1	16/00 20:10					
Diesel Range Hydrocarbons	0.534	0.250	mg/l	1	0K18001	11/18/00	11/19/00	NWTPH-Dx	ĺ
Lube Oil Range Hydrocarbons	ND	0.500	17	n	**	u	H _	, n	1
Surrogate: 2-FBP	67.1 %	50-150			"	"	"	,,	
02MW-04 (B0K0456-05) Water	Sampled: 11/16/0	0 15:10 Rec	eived: 11/	16/00 20:10					
Diesel Range Hydrocarbons	1.07	0.250	mg/l	1	0K18001	11/18/00	11/19/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	*1	11	n	U		11	<u> </u>
Surrogate: 2-FBP	102 %	50-150			"	n	"	n	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/03/00 16:25

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

	n 1:	Reporting	77.44.	TD!!L-A!	Datab	D	A maluma d	Mathad	Note
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
02MW-05 (B0K0456-06) Water	Sampled: 11/16/0	0 12:25 Rec	eived: 11/1	6/00 20:10				•	
Diesel Range Hydrocarbons	0.536	0.250	mg/l	1	0K18001	11/18/00	11/19/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	n	17	n		17	
Surrogate: 2-FBP	65.6 %	50-150			"	"	"	"	
01MW-01 (B0K0456-07) Water	Sampled: 11/16/0	0 17:55 Rec	eived: 11/1	6/00 20:10					
Diesel Range Hydrocarbons	1.65	0.250	mg/l	ĭ	0K20008	11/20/00	11/25/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500		**	**	17	H	"	
Surrogate: 2-FBP	102 %	50-150			n	,,	"	"	
Surrogate: Octacosane	113 %	50-150			"	"	"	**	
01MW-02 (B0K0456-08) Water	Sampled: 11/16/0	0 13:35 Rec	eived: 11/1	6/00 20:10					
Diesel Range Hydrocarbons	5.00	1.25	mg/l	5	0K20008	11/20/00	11/22/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	2.50	n	n	u	11	11	71	
rrogate: 2-FBP	64.5 %	50-150			Ħ	"	"	"	
rrogate: Octacosane	74.3 %	50-150			"	"	"	"	
01MW-03 (B0K0456-09) Water	Sampled: 11/16/0	0 14:00 Rec	eived: 11/1	6/00 20:10					
Diesel Range Hydrocarbons	1.65	0.250	mg/l	I	0K20008	11/20/00	11/25/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	11	u	ti.	11	n		,
Surrogate: 2-FBP	89.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	102 %	50-150			"	"	"	"	
01MW-04 (B0K0456-10) Water	Sampled: 11/16/0	0 14:30 Rec	eived: 11/1	6/00 20:10				-	
Diesel Range Hydrocarbons	1.86	0.250	mg/l	1	0K20008	11/20/00	11/25/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	**	n	n	19	n	"	
Surrogate: 2-FBP	101 %	50-150			"	"	n	"	
Surrogate: Octacosane	102 %	50-150			"	**	n	"	

orth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/03/00 16:25

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02MW-04A (B0K0456-11) Water	Sampled: 11/16	/00 15:10 Re	ceived: 11	/16/00 20:1	0				· · · · · · · · · · · · · · · · · · ·
Diesel Range Hydrocarbons	1.23	0.250	mg/l	1	0K18001	11/18/00	11/19/00	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	н	n	11	17	**	17	1
Surrogate: 2-FBP	102 %	50-150			"	"	"	, ,	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

Reported:

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a Project Manager: Bryan Graham

12/03/00 16:25

Total Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

		Reporti	_							
Analyte	Result	Lit	nit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02MW-01 (B0K0456-02) Water	Sampled: 11/16/00	08:50	Rece	ived: 11/16	6/00 20:10					A-01
Lead	ND	0.001	00	mg/l	1	0K18011	11/18/00	11/20/00	EPA 6020	
02MW-02 (B0K0456-03) Water	Sampled: 11/16/00	07:45	Rece	ived: 11/10	6/00 20:10					A-01
Lead	ND	0.001	.00	mg/l	1	0K18011	11/18/00	11/20/00	EPA 6020	
02MW-03 (B0K0456-04) Water	Sampled: 11/16/00	15:33	Rece	ived: 11/10	6/00 20:10					A-01
Lead	ND	0.001	.00	mg/l	I	0K18011	11/18/00	11/20/00	EPA 6020 ·	
02MW-04 (B0K0456-05) Water	Sampled: 11/16/00	15:10	Rece	ived: 11/10	6/00 20:10					A-01
Lead	0.00466	0.001	00	mg/l	1	OK 18011	11/18/00	11/20/00	EPA 6020	
02MW-05 (B0K0456-06) Water	Sampled: 11/16/00	12:25	Rece	ived: 11/10	6/00 20:10			<u></u>		A-01
Lead	ND	0.001	00	mg/l	1	0K18011	11/18/00	11/20/00	EPA 6020	
01MW-01 (B0K0456-07) Water	Sampled: 11/16/00	17:55	Rece	ived: 11/1	6/00 20:10					A-01
ad	ND	0.001	100	mg/l	1	0K27064	11/27/00	11/29/00	EPA 6020	
01MW-02 (B0K0456-08) Water	Sampled: 11/16/00	13:35	Rece	ived: 11/1	6/00 20:10					A-01
Lead	ND	0.001	00	mg/l	1	0K27064	11/27/00	11/29/00	EPA 6020	
01MW-03 (B0K0456-09) Water	Sampled: 11/16/00	14:00	Rece	ived: 11/1	6/00 20:10					A-01
Lead	ND	0.001	100	mg/I	J	0K27064	11/27/00	11/29/00	EPA 6020	
01MW-04 (B0K0456-10) Water	Sampled: 11/16/00	14:30	Rece	eived: 11/1	6/00 20:10					A-01
Lead	ND	0.00	100	mg/l]	0K27064	11/27/00	11/29/00	EPA 6020	

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/03/00 16:25

Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
02MW-04A (B0K0456-11) Water Sampled: 11/16/00 15:10 Received: 11/16/00 20:10									
02MW-04A (B0K0456-11) Water	Sampled: 11/16/0	00 15:10 Re	eceived: 11	/16/00 20:10	D .				A-(

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/03/00 16:25

Pentachlorophenol by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

	Danile	Reporting	Units	Dilution	Batch	Dranarad	Analyzed	Method	Notes
Analyte	Result	Limit	Units	Distriction	Batch	Frepareu	Allalyzeu	Memod	140162
SB-02-W (B0K0456-01) Water	Sampled: 11/16/00	16:00 Rece	ived: 11/1	6/00 20:10					
Pentachlorophenol	1.64	0.500	ug/l	1	0K21013	11/21/00	11/29/00	GCMS-SIM	
Surrogate: 2,4,6-TBP	109 %	30-150			"	"	11	"	

orth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street

Project Number: n/a

Reported:

Bothell WA, 98011

Project Manager: Bryan Graham

12/03/00 16:25

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring North Creek Analytical - Bothell

		Reporting							,
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-02-W (B0K0456-01) Water	Sampled: 11/16/00	16:00 Rece	ived: 11/16	5/00 20:10	-				·
Acenaphthene	0.597	0.100	ug/l	1	0K21013	11/21/00	11/29/00	GCMS-SIM	
Acenaphthylene	ND	0.100	n	n	**	Ħ	n	n	-
Anthracene	ND	0.100	n	н	h	D	н	Ħ	
Benzo (a) anthracene	ND	0.100	n	H	H	Ħ	н	H.	•
Benzo (a) pyrene	ND	0.100	n	n	IT	**	ч	Ħ	
Benzo (b) fluoranthene	ND	0.100	n ,	11	ıı	11	n	Ħ	
Benzo (ghi) perylene	ND	0.100	Ħ	11	Ħ	Ħ	n	Ħ	J.
Benzo (k) fluoranthene	ND	0.100	n	***	п	n	**	Ħ	
Chrysene	ND	0.100	н	n	n	н	н	n	(
Dibenz (a,h) anthracene	ND	0.100	ţı	n	II	Ħ	ņ	tt	-
Fluoranthene	ND	0.100	ti	n	n	н	n	n	=
Fluorene	1.58	0.100	11	ti	n	11	11	n	
Indeno (1,2,3-cd) pyrene	ND	0.100	**	11	n	**	*1	n	
Naphthalene	0.231	0.100	n	n	11	Ħ	**	н	ı L
Phenanthrene	0.943	0.100	19	11	11	17	n	17	·
Pyrene	0.154	0.100	11	*1	II	n	11	н	1
Surrogate: 2-FBP	74.8 %	12-107			н	n	,,	"	
Surrogate: Nitrobenzene-d5	86.9 %	10-115			"	"	"	"	-
Surrogate: p-Terphenyl-d14	83.8 %	28-103			"	n	"	**	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/03/00 16:25

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte ·		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K18007:	Prepared 11/18/00	Using El	PA 5030B	(P/T)							
Blank (0K18007-BL	K1)			-							
Gasoline Range Hydroc	arbons	ND	50.0	ug/l			-				_
Benzene		ND	0.500	n							
Foluene		ND	0.500	"							
Ethylbenzene		ND	0.500	11							
Xylenes (total)		ND	1.00	Ħ							
Surrogate: 4-BFB (FID))	37.9		"	48.0		79.0	50-150			
Surrogate: 4-BFB (PID))	40.4		"	48.0		84.2	50-150			
Blank (0K18007-BL	K2)										
Gasoline Range Hydroc	arbons	ND	50.0	ug/l							
Benzene		ND	0.500	D							
uene		ND	0.500	n							
ylbenzene		ND	0.500	Ħ							
Xylenes (total)		ND	1.00	Ħ							
Surrogate: 4-BFB (FID		40.2	<u> </u>	"	48.0		83.8	50-150	_		
Surrogate: 4-BFB (PID)	44.0		"	48.0		91.7	50-150			
LCS (0K18007-BS1))										
Gasoline Range Hydrod	arbons	475	50.0	ug/l	500		95.0	70-130			·
Surrogate: 4-BFB (FID)	46.0		"	48.0		95.8	50-150			
LCS (0K18007-BS2)										
Gasoline Range Hydrod	carbons	502	50.0	ug/l	500		100	70-130		•	•
Surrogate: 4-BFB (FID) .	48.4		"	48.0		101	50-150			
Duplicate (0K18007	-DUP1)					Source: 1	В0К0342-	52			
Gasoline Range Hydrod		ND	50.0	ug/l		ND			18.8	25	
Surrogate: 4-BFB (FID)	41.6		"	48.0	-	86.7	50-150			

orth Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

Project: West Commodore Way Phase II

12100 NE 195th Street Bothell WA, 98011

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/03/00 16:25

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source					
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K18007:	Prepared 11/18/00	Using E	PA 5030B	(P/T)							
Duplicate (0K18007	7-DUP2)			-		Source: I	30K0342-	51			
Gasoline Range Hydro	carbons	ND	50.0	ug/l		ND			32.3	25	Q-
Surrogate: 4-BFB (FIL))	39.0		"	48.0		81.3	50-150		_	
Matrix Spike (0K18	8007-MS1)					Source: I	30K0304-	32.3 25 50-150 33 70-130 70-130 70-130 50-150 33 70-130 0.939 15 70-130 0.957 15 70-130 2.87 15 70-130 1.62 15 50-150			
Benzene		10.7	0.500	ug/l	10.0	ND	106	70-130			
Toluene		10.4	0.500	n	10.0	ND	102	70-130			
Ethylbenzene		10.3	0.500	n	10.0	, ND	103	70-130			
Xylenes (total)		30.7	1.00	**	30.0	ND	102	70-130			
Surrogate: 4-BFB (PIL	D)	45.7		"	48.0	_	95.2	50-150			
Matrix Spike Dup (0K18007-MSD1)					Source: 1	B0K0304-	03			
Benzene		10.6	0.500	ug/l	10.0	ND	105	70-130	0.939	15	-
Toluene		10.5	0.500	11	10.0	ND	103	70-130	0.957	15	
Ethylbenzene		10.6	0.500	n	10.0	ND	106	70-130	2.87	15	•
Xylenes (total)		31.2	1.00	n	30.0	ND	103	70-130	1.62	15	
Surrogate: 4-BFB (PIL	0)	46.9		,,	48.0	-	97.7	50-150			
Batch 0K25009:	Prepared 11/25/00	Using E	PA 5030B	(P/T)					ā		
Blank (0K25009-BI	L K1)										
Gasoline Range Hydro	carbons	ND	50.0	ug/l			,				
Benzene		ND	0.500	n							
Toluene		ND	0.500	11							ı
Ethylbenzene		ND	0.500	Ħ							
Xylenes (total)		ND	1.00	11 ·							
Surrogate: 4-BFB (FIL	D)	48.9			48.0		102	50-150		_	
Surrogate: 4-BFB (PIL	D)	49.8		"	48.0		104	50-150			

North Creek Analytical - Bothell

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12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/03/00 16:25

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	-			
Алаlyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
Batch 0K25009: Prepared 11/25/00	Using E	PA 5030B	(P/T)										
LCS (0K25009-BS1)													
Gasoline Range Hydrocarbons	473	50.0	ug/l	500		94.6	70-130						
Surrogate: 4-BFB (F1D)	57.3		"	48.0	-	119	50-150						
Duplicate (0K25009-DUP1)					Source: H	94.6 70-130 119 50-150 urce: B0K0351-08 P3.9 50-150 urce: B0K0456-10							
Gasoline Range Hydrocarbons	ND	50.0	ug/l		ND		_	21.4	25				
Surrogate: 4-BFB (FID)	47.0		,,	48.0		97.9	50-150			•			
Duplicate (0K25009-DUP2)				Source: B0K0456-10 7930 10.3 25									
Gasoline Range Hydrocarbons	7150	2500	ug/l		7930		•	10.3	25				
Surrogate: 4-BFB (FID)	47.3		- "	48.0		98.5	50-150						
Matrix Spike (0K25009-MS1)					Source: I	30K0351-	04						
zene	9.96	0.500	ug/l	10.0	ND	99.6	70-130						
_ Uluene	9.88	0.500	**	0.01	ND	97.1	70-130						
Ethylbenzene	10.4	0.500	11	10.0	ND	103	70-130						
Xylenes (total)	31.0	1.00	n	30.0	ND	102	70-130						
Surrogate: 4-BFB (PID)	49.5		"	48.0		103	50-150						
Matrix Spike Dup (0K25009-MSD1)					Source: I	30K0351-	04						
Benzene	9.68	0.500	ug/l	10.0	ND	96.8	70-130	2.85	15				
Toluene	9.74	0.500	13	10.0	ND	95.7	70-130	1.43	15				
Ethylbenzene	10.2	0.500	n	10.0	ND	101	70-130	1.94	15				
Xylenes (total)	30.3	1.00	n	30.0	ND	99.6	70-130	2.28	15				
Surrogate: 4-BFB (PID)	49.5		"	48.0		103	50-150						

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/03/00 16:25

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K18001:	Prepared 11/18/00	Using El	PA 3520C/	600 Series	-			Ť			
Blank (0K18001-Bl	LK1)										
Diesel Range Hydrocar	rbons	ND	0.250	mg/l	-				-		
Lube Oil Range Hydro	carbons	ND	0.500	Ħ							
Surrogate: 2-FBP		0.289		"	0.320		90.3	50-150	•		
LCS (0K18001-BS)	1)										
Diesel Range Hydroca	rbons	1.44	0.250	mg/l	2:00		72.0	60-140		_	
Surrogate: 2-FBP		0.222		"	0.320		69.4	50-150			
LCS Dup (0K18001	I-BSD1)										
Diesel Range Hydroca	rbons	1.65	0.250	mg/l	2.00		82.5	60-140	13.6	40	
Surrogate: 2-FBP		0.295	-		0.320		92.2	50-150			
Batch 0K20008:	Prepared 11/20/00	Using E	PA 3520C/	600 Series							()
Blank (0K20008-B)	LK1)										, your -
Diesel Range Hydroca	rbons	ND	0.250	mg/l				•			
Lube Oil Range Hydro	carbons	ND	0.500	**							
Surrogate: 2-FBP	 	0.303		,,	0.320		94.7	50-150	-		
LCS (0K20008-BS1	1)										
Diesel Range Hydroca	rbons	1.70	0.250	mg/l	2.00	-	85.0	60-140			
Surrogate: 2-FBP		0.236		n	0.320		73.8	50-150			
LCS Dup (0K20008	8-BSD1)										
Diesel Range Hydroca	rbons	1.95	0.250	mg/l	2.00		97.5	60-140	13.7	40	
Surrogate: 2-FBP		0.356	-	"	0.320		111	50-150			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/03/00 16:25

Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

<u> </u>		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K18011: Prepared 11/18/00	Using E	PA 3020A								
Blank (0K18011-BLK1)										
Lead	ND	0.00100	mg/l			,				
LCS (0K18011-BS1)										
Lead	0.200	0.00100	mg/l	0.200		100	80-120			
Matrix Spike (0K18011-MS1)					Source: I	30K0456-	03			
Lead	0.206	0.00100	mg/l	0.200	ND	103	75-125			
Matrix Spike Dup (0K18011-MSD1)					Source: I	30K0456-	03			
Lead	0.206	0.00100	mg/l	0.200	ND	103	75-125	0	20	
Batch 0K27064: Prepared 11/27/00	Using B	EPA 3020A						-120 -125 -125 0 20 -126 -127		
ank (0K27064-BLK1)										
'ad	ND	0.00100	mg/l	-						
LCS (0K27064-BS1)										
Lead	0.197	0.00100	mg/l	0.200		98.5	80-120			
Matrix Spike (0K27064-MS1)		-			Source: 1	B0K0456-	07			
Lead	0.201	0.00100	mg/l	0.200	ND	100	75-125			
Matrix Spike Dup (0K27064-MSD1)					Source: 1	B0K0456-	-07			
Lead	0.201	0.00100	mg/l	0.200	ND	100	75-125	0	20	

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported: 12/03/00 16:25

Pentachlorophenol by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC .	Limits	RPD	Limit	Notes
Batch 0K21013: Prepared 11/21/00	Using El	PA 3510C/	600 Series							
Blank (0K21013-BLK1)							_		-	
Pentachlorophenol	ND	0.500	ug/l							
Surrogate: 2,4,6-TBP	44.1		n	50.0		88.2	30-150			
LCS (0K21013-BS1)								_		
Pentachlorophenol	15.2	0.500	ug/l	20.0		76.0	30-150			
Surrogate: 2,4,6-TBP	43.3		"	50.0	-	86.6	30-150			
LCS Dup (0K21013-BSD1)										
Pentachlorophenol	15.2	0.500	ug/l	20.0		76.0	30-150	0	50	
Surrogate: 2,4,6-TBP	46.1	·	"	50.0		92.2	30-150			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation

12100 NE 195th Street Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

Project Manager: Bryan Graham

12/03/00 16:25

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0K21013: Prepared 11/21/00	Using El	PA 3510C/	600 Series	_						
Blank (0K21013-BLK1)	-									_
Acenaphthene	ND	0.100	ug/l			-				
Acenaphthylene	ND	0.100	11							
Anthracene	ND	0.100	11							
Benzo (a) anthracene	ND	0.100	n							
Benzo (a) pyrene	, ND	0.100	n							
Benzo (b) fluoranthene	ND	0.100	n							
Benzo (ghi) perylene	ND	0.100	ti							
Benzo (k) fluoranthene	ND	0.100	. "			,				
Chrysene	ND	0.100	**							
Dibenz (a,h) anthracene	ND	0.100	11							
Fluoranthene	ND	0.100	n							
Norene	ND	0.100	II							
indeno (1,2,3-cd) pyrene	ND	0.100	n							
Naphthalene	ND	0.100	11							
Phenanthrene	ND	0.100	n							
Pyrene	ND	0.100	n							
Surrogate: 2-FBP	31.8		"	50.0		63.6	12-107			
Surrogate: Nitrobenzene-d5	39.6		"	50.0		79.2	10-115			
Surrogate: p-Terphenyl-d14	46.6		"	50.0		93.2	28-103			
LCS (0K21013-BS1)										_
Chrysene	7.86	0.100	ug/l	10.0		78.6	50-123			
Fluorene	6.88	0.100	n	10.0		68.8	31-132			
Indeno (1,2,3-cd) pyrene	8.90	0.100	n	10.0		89.0	27-146			
Surrogate: 2-FBP	30.6		"	50.0	· -	61.2	12-107		_	
Surrogate: Nitrobenzene-d5	<i>38.6</i>		"	50.0		77.2	10-115			
Surrogate: p-Terphenyl-d14	42.8		n	50.0		85.6	<i>28-103</i>			

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8223 425.420.9200 fax 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 2032 Empire Avenue, Suite F-1, Bend, OR 97701-5711

Spokane

Portland

Bend

541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street

Project: West Commodore Way Phase II

Project Number: n/a

Reported:

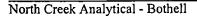
Bothell WA, 98011

Project Manager: Bryan Graham

12/03/00 16:25

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0K21013: Prepared 11/21/0	0 Using El	PA 3510C/	600 Serie	s						
LCS Dup (0K21013-BSD1)				_						
Chrysene	8.24	0.100	ug/l	10.0		82.4	50-123	4.72	27	
Fluorene	7.44	0.100	11	10.0		74.4	31-132	7.82	36	
Indeno (1,2,3-cd) pyrene	8.96	0.100	Ħ	10.0		89.6	27-146	0.672	31	
Surrogate: 2-FBP	33.4		"	50.0		66.8	12-107			
Surrogate: Nitrobenzene-d5	39.6		"	50.0		79.2	10-115			
Surrogate: p-Terphenyl-d14	43.9		"	50.0		87.8	28-103			



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425.420.9200 fax 425.420.9210

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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Foster Wheeler Environmental Corporation

12100 NE 195th Street

Bothell WA, 98011

Project: West Commodore Way Phase II

Project Number: n/a

Project Manager: Bryan Graham

Reported:

12/03/00 16:25

Notes and Definitions

A-01 Samples were field filtered then filtered in the lab and run as Total Pb by EPA 6020.

Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.

R-03 The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the

sample.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

rth Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ADDRESS:

PROJECT NAME:

SAMPLED BY:

PROJECT NUMBER:

PHONE:

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

FAX 420-9210 (425) 420-9200 FAX 924-9290 (509) 924-9200

(503) 906-9200 FAX 906-9210 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

P.O. NUMBER:

FAX: 415 4827676

SAMPLING

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 Work Order #: TURNAROUND REQUEST in Business Days* INVOICE TO: TOC Organic & Inorganic Analyses Scott Stoart 2737 West Commodure Very 10 Statle WA 99099 Petroleum Hydrocarbon Analyses 57D. 5 3 2 REQUESTED ANALYSES STD. Please Specify **OTHER** *Turnaround Requests less than standard may incur Rush Charges. NCA WO #OF MATRIX

IDENTIFICATION		DATE/TIME	ŵ	🔻	1 6	B									(W, S, O)	CONT.	COMMENT		ID
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11 074W-04A	1	1510	X	X		X								Ш	<u> </u>				
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