Drilling on 5/18/2005

SECOR

SECOR
INTERNATIONAL
INCORPORATED

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Mr. Kipp Eckert
ConocoPhillips Company
PO Box 923
Bothell, WA 98041

RE: Subsurface Investigation
247 "D" Street Blaine, Washington
ConocoPhillips Facility No. 255028

Dear Mr. Eckert:

The following presents the results of a subsurface investigation conducted by SECOR International Inc. (SECOR) on May 18, 2005 at 247 "D" Street in Blaine, Washington (site). The purpose of the investigation was to further delineate petroleum impacted soil and groundwater.

**SITE DECRIPTION**

The site is located in Blaine, Whatcom County, Washington in the southeast quarter of Section 36; Township 41 North; and Range 1 West (Figure 1). The site is located at the southeast corner of the intersection of "D" Street and the Interstate 5 off ramp. The Interstate 5 off ramp is to the west of the site, "D" street, a restaurant, and an abandoned gas station are located north of the site; and active gasoline stations are located to the east and south of the site. The nearest surface body of water is an unnamed creek, located approximately 1,200 feet southwest of the site. Drayton Harbor is located 1.3 miles west of the site. The site is located at an elevation of approximately 50 feet above mean sea level.

The site is currently undeveloped and covered with asphalt, patches of rocked surfaces, and planters. In 1990, a 550-gallon heating oil underground storage tank (UST) and 550-gallon used oil UST were decommissioned by removal. Prior to site decommissioning in 2002, site improvements consisted of a station building with hydraulic hoists and a sump, two gasoline dispenser islands and two 12,000 gallon USTs containing gasoline and associated piping. A site plan showing the approximate locations of these features is presented on Figure 2.

**BACKGROUND**

The following briefly describes environmental services performed at the site based on a review of available historical reports.

The station was reportedly constructed in 1950 and operated until approximately 1997.

A 1986 investigation was performed in response to a reported discharge to the Blaine sewer system near the site. Six wells (MW-1 through MW-6) were installed to depths of 13.5 feet below ground surface (bgs). Petroleum hydrocarbons were reportedly not detected in soil samples collected from the borings. Benzene, toluene, ethylbenzene, and total xylenes (BTEX) were reportedly detected in groundwater samples collected from wells located near the gasoline USTs and dispenser islands (MW-1 through MW-4). Benzene was detected at concentrations between 3,900 µg/L and 9,900 µg/L in these wells. As a result of the investigation, two steel gasoline USTs were decommissioned and replaced with two 12,000-gallon fiberglass USTs. Approximately 2,000 gallons of groundwater were removed from the UST excavation. No soil samples were obtained from the UST excavation. Wells MW-1, MW-2, and MW-4 were removed during the decommissioning activities. Wells MW-3 and MW-5 were observed to be compromised and were decommissioned in 1993.

A 550-gallon diesel UST and 550-gallon used oil UST were decommissioned by removal in June 1990. The USTs were located south of the station building. Concentrations above Washington Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A cleanup levels were detected in soil samples collected from the north and west sidewalls of the UST excavation. No additional soil was excavated at that time due to the close proximity to the station building. No halogenated volatiles, polychlorinated biphenyls, or metals were detected in soil samples submitted for analyses. Water was observed in the excavation and determined by the consultant not to be representative of groundwater.

During dispenser island upgrades in January 1991, approximately 100 cubic yards of impacted soil was over-excavated. Soil samples were collected from the base and sidewalls of the final excavation. Benzene was detected above MTCA Method A cleanup levels in 7 of 9 soil samples. In anticipation of future remedial action, two 4-inch diameter slotted PVC pipes were installed parallel to the dispenser islands.

In June 1993, monitoring wells MW-1 through MW-4 were installed as part of a phase II assessment. Soils encountered consisted of fine sandy silt underlain by clayey silt to total depth explored of 14 feet bgs. The locations of the wells are shown on Figure 2. Soil samples collected from the boring advanced to construct well MW-2 contained petroleum hydrocarbons and hydrocarbon constituents greater than MTCA Level A cleanup levels. Groundwater samples collected from wells MW-2 and MW-3 contained concentrations of gasoline range hydrocarbons and hydrocarbon constituents above MTCA Level A cleanup levels. Concentrations of vinyl chloride above cleanup levels were also detected in groundwater samples collected from well MW-3. Depth to water was measured between 3.52 feet and 4.48 feet below top of well casing (TOC). The groundwater gradient was determined to flow toward the west-southwest.

Two monitoring wells (MW-5 and MW-6) were installed west of the site boundary in October 1994. Petroleum hydrocarbons and hydrocarbon constituents were not detected above MTCA Method A cleanup levels in soil or groundwater samples collected during the advancement and following construction of wells MW-5 and MW-6.

Treatment wells TW-1 through TW-5 were installed in July 1996 and treatment began using Regenesis oxygen releasing compound (ORC). All of the treatment wells were located on the west side of the dispenser islands as shown in Figure 2. Gasoline range hydrocarbons and benzene were detected above MTCA Method A cleanup levels in all of the soil samples collected during the advancement of the treatment wells. The ORC socks were not replaced due to a lack of effectiveness as measured by dissolved oxygen concentrations.

Treatment using an iSOC remediation system was performed in wells TW-1 and TW-3 between March 2000 and February 2001 to determine if this was a feasible method of remediation. Based on dissolved oxygen concentrations and groundwater concentrations, it was determined that this method of treatment was ineffective.

In March 2002, the USTs, hoists, sump, dispenser islands, and associated piping were decommissioned by removal. Remedial excavation was performed in the UST excavation, the hoist excavations, and beneath the dispenser islands. The limits of this excavation are illustrated on Figure 2. Monitoring wells MW-2, treatment wells TW-1 through TW-5, and soil venting piping were removed during these activities. Approximately 1,900 tons of impacted soil was transported to TPS Technologies in Tacoma, Washington for treatment and disposal. Approximately 2,800 gallons of

water were removed from the excavations and disposed of by Cowlitz Clean Sweep of Longview, Washington. Based on chemical analysis, petroleum hydrocarbon impacted soil remained on the west property boundary north of the former gasoline USTs. In November 2002, well MW-2 was replaced with well MW-2A in the UST excavation backfill.

In September 2004, a third party performed a subsurface investigation consisting of the advancement of 5 borings (P-1 through P-5) with soil and groundwater sampling. The locations of the borings are shown on Figure 2. One soil sample from 3.5 feet bgs in boring P-2 was submitted for analysis. Soil analytical test results reported diesel range hydrocarbons at a concentration of 3,500 mg/kg. Boring P-2 is located on the west edge of the former diesel UST excavation. Analytical test results for the groundwater sample from boring P-2 reported diesel and heavy oil range hydrocarbons at concentrations of 3,900 µg/L and 2,400 µg/L, respectively. Gasoline range hydrocarbons and BTEX compounds were not detected above laboratory reporting limits in the groundwater samples collected from boring P-1, P-3, P-4, and P-5.

In November 2004 SECOR performed a subsurface investigation consisting of the advancement of 4 borings (B-1 through B-4) with soil and groundwater sampling. Based on field observations one soil sample from each of the borings and two soil samples from boring B-3 were submitted along with groundwater samples for analysis. Soil analytical results for B-3 indicated gasoline and diesel range hydrocarbons at concentrations of 162 mg/kg and 100 mg/kg, respectively. Boring B-3 is located at the southern portion of the site south of the former diesel and waste oil USTs. Analytical results for the groundwater sample from B-3 detected gasoline and diesel range hydrocarbons at concentrations of 181 µg/L and 2,010 µg/L, respectively. Gasoline range hydrocarbons and BTEX compounds were not detected above the laboratory reporting limits in any of the remaining soil and groundwater samples.

On April 5, 2005, SECOR directed remedial excavation activities in the vicinity of and south of the former diesel UST. The excavation was approximately 3.5 feet deep and covered an area of 3,200 square feet. Groundwater was encountered at 3.5 feet bgs, limiting the depth of the excavation. SECOR observed the removal of approximately 100 tons of impacted soil from the excavation. Soil samples were collected from the sidewalls of the excavation at a depth of 3 feet bgs and analytical results indicated the presence of TPH-g above the MTCA Method A cleanup level in one of the six soil samples collected. Sample EX1-6 was collected on the south sidewall of the excavation, approximately 15 feet west of monitoring well MW-4. None of the remaining soil samples collected from the limits of the excavation contained concentrations of analytical constituents above MTCA Method A cleanup levels.

## SCOPE OF WORK

The scope of work included advancing two soil borings (B-1 and B-2) in the vicinity of the former diesel and gasoline USTs to a total depth of 13 feet bgs using a hollow stem auger drill rig on May 18, 2005. Each of the borings were completed as a monitoring well. Boring B-1 was completed as MW-7. Boring B-2 was completed as MW-8. Boring and monitoring well locations are shown on Figure 2. Soil samples were collected at five foot intervals and all samples were submitted to Severn Trent Laboratories (STL) in Tacoma, Washington for analysis. Groundwater samples were collected on June 9, 2005 from each of the monitoring wells and submitted to STL for analysis.

**Field activities**

Cascade Drilling Inc. (Cascade) provided drilling services and Applied Professional Services, Inc. (APS) provided private utility locating services. SECOR personnel were present during all phases of the fieldwork. Details regarding fieldwork are described as follows.

**Pre-Field Activities**

The following activities were completed prior to starting field work and drilling activities:

A site specific health and safety plan (HASP) was prepared for each phase of the field activities. The HASP identified potential physical and chemical hazards associated with the proposed field activities, and specified personnel protection equipment and safety monitoring requirements. All SECOR personnel and subcontractors working on the project were required to be familiar with and to comply with the provision in the HASP.

Prior to the start of field activities SECOR arranged to have a municipal underground utility location service identify subsurface municipal utilities located in public right-of ways adjacent to the site. In addition, SECOR contracted with APS to provide utility locating services on the site. Prior to drilling, each boring location was cleared to five feet bgs using an air wand and vacuum truck for the purposes of determining if near-surface utilities exist that were not identified during the utility locating activities.

**Drilling and Sampling Activities**

The borings were advanced using an 8 inch diameter, hollow stem auger rig. Soil samples were taken at 5 foot intervals using a standard spilt spoon sampler. Soil samples analyzed for volatile organics were collected in accordance with Environmental Protection Agency (EPA) sampling method 5035A. The soil was collected using a laboratory supplied sampler and placed into a laboratory supplied container preserved with methanol. Laboratory supplied sample jars were used to collect soil samples analyzed for non-volatiles. All soil samples were uniquely labeled and placed in an iced cooler under chain-of-custody documentation pending transportation and analysis at the laboratory.

Following soil sample collection, a portion of the soil was placed into a small, re-sealable plastic bag. The top of the bag was then closed and, following a lapse of approximately 30 minutes, a photoionization detector (PID) was used to monitor the soils contained within the plastic bag for volatile organic compound (VOC) vapors by inserting the PID probe into the headspace of the bag. The PID was equipped with an ultraviolet lamp of 10.8 electron volts (eV) and calibrated to a 100 parts per million isobutylene standard.

Groundwater monitoring wells MW-7 and MW-8 were developed on May 5, 2005 by purging each well of ten casing volumes or until the purge water ran clear. The network of six groundwater monitoring wells (MW-2A, MW-3, MW-4, and MW-6 through MW-8) were sampled on June 9, 2005. Prior to sampling the wells were purged of approximately 3 casing volumes. The wells were then sampled using a peristaltic pump with dedicated tubing. Groundwater samples were then collected directly into laboratory supplied containers and were immediately placed in an iced cooler with chain-

of-custody documentation to await transport to the laboratory. Results from this sampling event are documented in the October 10, 2005 Groundwater Monitoring Report.

**Subsurface Conditions**

Soils encountered during drilling activities consisted primarily of sandy silt or sand to the maximum drilled depth of 14 feet bgs. Groundwater was encountered at 5 feet bgs during drilling activities.

**Laboratory Program and Analytical Results**

Each soil sample was submitted to Severn Trent Laboratories (STL) located in Tacoma, Washington for analysis for total petroleum hydrocarbons as gasoline (TPH-g) using Northwest Method NWTPH-Gx, and diesel (TPH-d) ; heavy oil (TPH-o) range hydrocarbons using Northwest Method NWTPH-Dx with silica gel cleanup; benzene, tolulene, ethylbenzene, total xylenes (BTEX) and methyl tert-butyl ether (MTBE) using USEPA Method 5035/8021B.

Each groundwater sample was submitted to STL for analysis for TPH-g using Northwest Method NWTPH-Gx; TPH-d and TPH-o using Northwest Method NWTPH-Dx; and BTEX, MTBE, and VOCs using EPA Method 5035/8260.

**Analytical Results**

Review of the soil and groundwater analytical results indicate the following:

- MTBE was detected at a concentration of 0.00201 mg/kg in the soil sample for B2-10.This concentration is less than MTCA Method A cleanup levels.
- None of the remaining soil samples contained concentrations analyzed constituents greater than the laboratory reporting limits (RLs).
- No TPH-g, TPH-d, TPH-o, or BTEX constituents were detected at concentrations greater than the laboratory RLs in any of the groundwater samples collected.
- MTBE was detected at a concentration greater than the MTCA A cleanup levels in the groundwater sample collected from monitoring well MW-7 (138 µg/L.).
- Cis-1,2-Dichloroethene (1,2-DCA) was detected at concentrations greater than MTCA A cleanup levels in the groundwater samples collected from monitoring wells MW-7 (156 µg/L) and MW-8 (177µg/L). Vinyl chloride (VC) was detected at concentrations greater than MTCA A in the groundwater samples from both MW-7 (6.36 µg/L) and MW-8 ( 36.3 µg/L).
- Trichloroethene (TCE) was detected at concentrations greater than the laboratory RLs in MW-7 (14.6 µg/L) and MW-8 ( 72 µg/L). These concentrations are greater than MTCA Method A cleanup levels.

Soil sample analytical results are summarized in Table 1 and Figure 3. Groundwater sample analytical results are summarized in Tables 2 and 3 and Figure 4. Copies of the laboratory reports and chain of custody documentation are included as Attachment A.

**Conclusions**

A subsurface investigation was completed by SECOR on May 18, 2005 at 247 'D' Street in Blaine Washington. The purpose of the investigation was to further delineate petroleum impacted soil and groundwater. Soil samples submitted for analysis did not contain constituent concentrations above the RLs, except for MTBE below MTCA A cleanup levels in soil sample B2-10. Groundwater samples sumbitted for analysis did contain concentrations of constituents associated with chlorinated solvents greater than MTCA Method A cleanup levels for groundwater. The presence of TCE and VC in the groundwater samples submitted for analysis indicate that natural attenuation of chlorinated solvents is occuring. Impacts to soil and groundwater were further delineated in the southwest portion of the site, however the extent of the plume remains undefined.

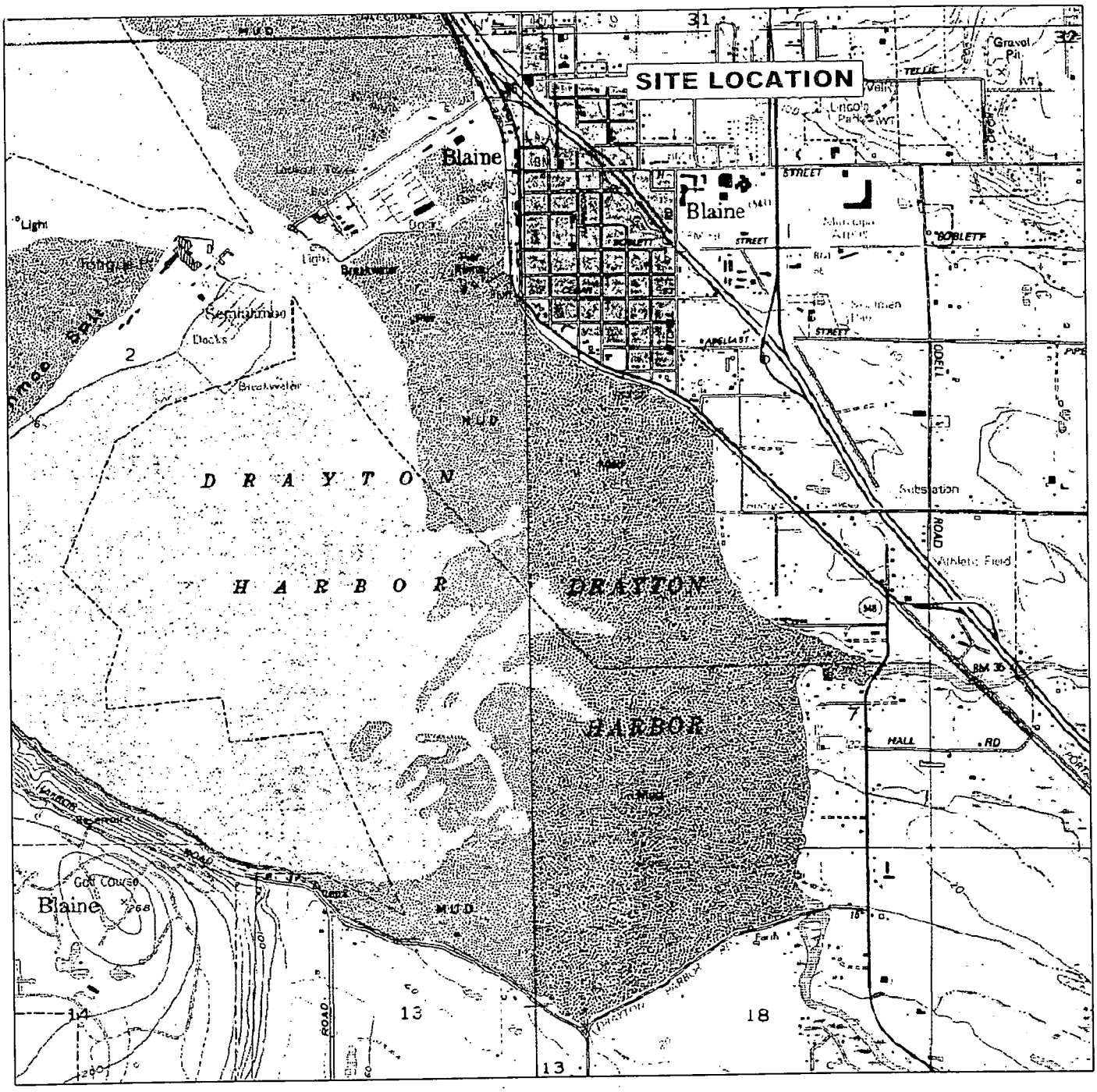
SECOR appreciates the opportunity to provide environmental consulting services. Please contact the under signed if you have any questions or comments.

Sincerely,
**SECOR International Incorporated**

Billie J. Wing for:
Alice J. Larsen
Senior Project Manager

Marc Sauze, PE
Senior Project Engineer

cc: Brian Sato, Washington State Department of Ecology Toxics Cleanup Program
David Taney, Duty Free America, Inc




North

WASHINGTON

1 1/2 0 1

SCALE (MILES)

1000 0 1000 2000 3000 4000 5000 6000 7000

SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE; BLAINE, WASHINGTON; 1952

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PHONE: (425) 372-1600 FAX: (425) 372-1650

PREPARED FOR:
ConocoPhillips
FACILITY NO 255028
247 D STREET
BLAINE, WASHINGTON

SITE LOCATION MAP

FIGURE: 1

| JOB NUMBER: | DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: |
|---|---|---|---|---|
| 01CP.05028.10 | S. SIMMONS | MR | | 2/4/04 |

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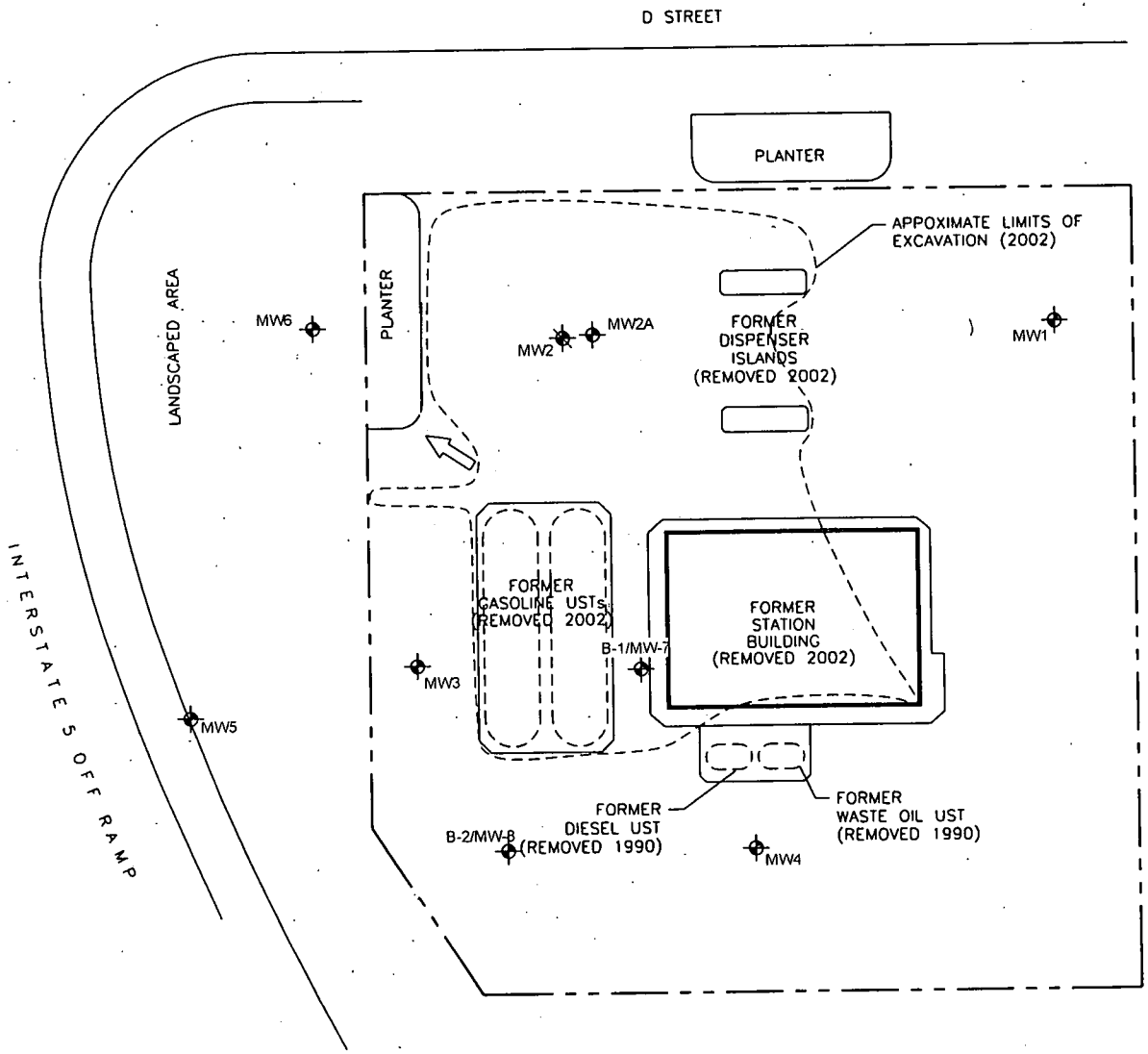


LEGEND

- SITE BOUNDARY
- MW1 MONITORING WELL LOCATION AND ID
- B1 SOIL BORING LOCATIONS AND ID
- P-4 SOIL BORING LOCATIONS AND ID (GEOSCIENCE, AUGUST 2004)
- UST UNDERGROUND STORAGE TANK
- INDICATES APPARENT GROUNDWATER FLOW DIRECTION

NOTES:

1). ALL LOCATIONS ARE APPROXIMATE.

North

0 30 60

APPROXIMATE SCALE (FEET)

SOURCE:
BASE MAP FROM; ENVIRONMENTAL RESOLUTIONS, INC. (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP- 06/09/03, PLATE 1, DATED 07/14/03, PROJECT NO. 31017. CADD FILE 31017.13.DWG

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FACILITY NO 255028
247 D STREET
BLAINE, WASHINGTON

SITE PLAN WITH BORING AND MONITORING WELL LOCATIONS

FIGURE: 2

| JOB NUMBER: | DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: |
|---|---|---|---|---|
| 01CP.05028.10 | SS/ARA | MR | | 12/6/04 |

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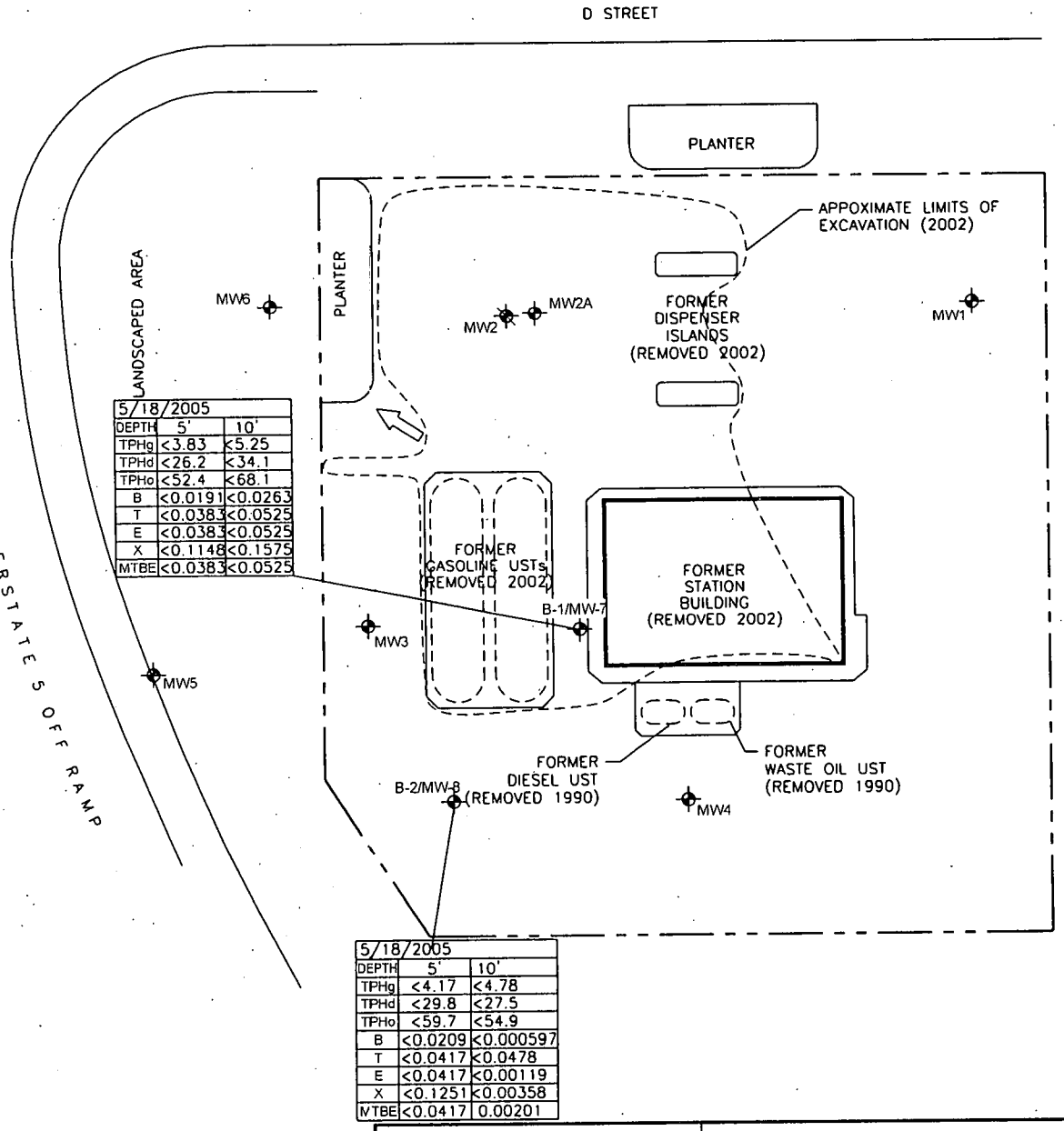


| 5/18/2005 | | |
|---|---|---|
| DEPTH | 5' | 10' |
| TPHg | <3.83 | <5.25 |
| TPHd | <26.2 | <34.1 |
| TPHo | <52.4 | <68.1 |
| B | <0.0191 | <0.0263 |
| T | <0.0383 | <0.0525 |
| E | <0.0383 | <0.0525 |
| X | <0.1148 | <0.1575 |
| MTBE | <0.0383 | <0.0525 |

| 5/18/2005 | | |
|---|---|---|
| DEPTH | 5' | 10' |
| TPHg | <4.17 | <4.78 |
| TPHd | <29.8 | <27.5 |
| TPHo | <59.7 | <54.9 |
| B | <0.0209 | <0.000597 |
| T | <0.0417 | <0.0478 |
| E | <0.0417 | <0.00119 |
| X | <0.1251 | <0.00358 |
| MTBE | <0.0417 | 0.00201 |

LEGEND

- SITE BOUNDARY
- MW1 MONITORING WELL LOCATION AND ID
- B1 SOIL BORING LOCATIONS AND ID
- UST UNDERGROUND STORAGE TANK

ANALYTES

SAMPLE DEPTH IN FEET, BGS

- TPHg TOTAL PETROLEUM HYDROCARBONS GASOLINE
- TPHd TOTAL PETROLEUM HYDROCARBONS DIESEL
- TPHo TOTAL PETROLEUM HYDROCARBONS HEAVY OIL
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES
- MTBE METHYL-TERT BUTYL ETHER
- (mg/kg) MILLIGRAMS PER KILOGRAM
- ND NOT DETECTED ABOVE REPORTING LIMITS

NOTES:

1). ALL LOCATIONS ARE APPROXIMATE.

2). ALL RESULTS REPORTED IN mg/kg .

North

0 30 60

APPROXIMATE SCALE (FEET)

SOURCE:
BASE MAP FROM; ENVIRONMENTAL RESOLUTIONS, INC. (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP- 06/09/03, PLATE 1, DATED 07/14/03, PROJECT NO. 31017. CADD FILE 31017.13.DWG


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PREPARED FOR:
ConocoPhillips
FACILITY NO 255028
247 D STREET
BLAINE, WASHINGTON

**SOIL ANALYTICAL RESULTS SUBSURFACE INVESTIGATION MAY 18, 2005**

FIGURE: 3

| JOB NUMBER: | DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: |
|---|---|---|---|---|
| 01CP.05028.10 | SS/ARA | MR | | 12/6/04 |

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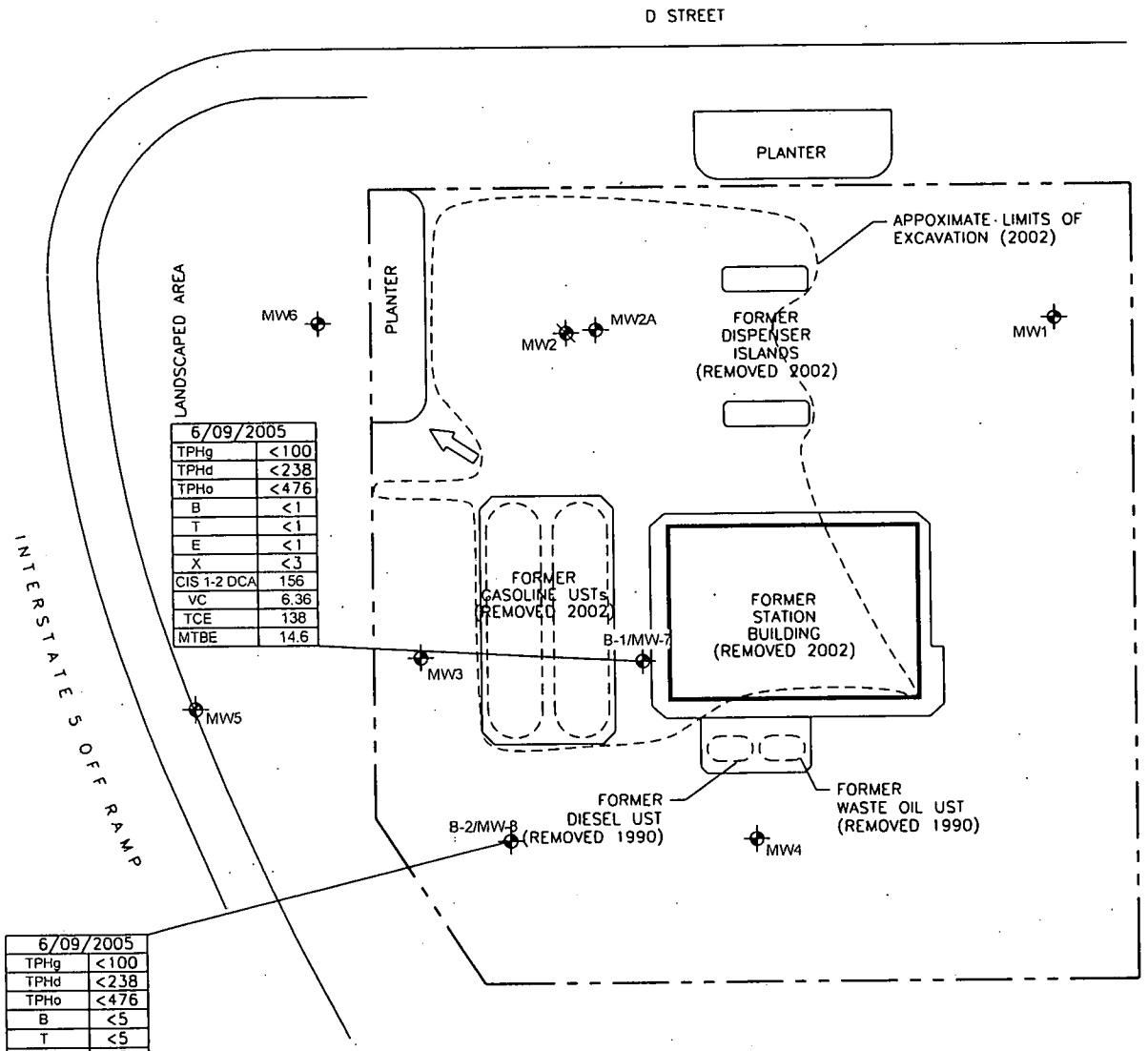


| 6/09/2005 | |
|---|---|
| TPHg | <100 |
| TPHd | <238 |
| TPHo | <476 |
| B | <1 |
| T | <1 |
| E | <1 |
| X | <3 |
| CIS 1-2 DCA | 156 |
| VC | 6.36 |
| TCE | 138 |
| MTBE | 14.6 |

| 6/09/2005 | |
|---|---|
| TPHg | <100 |
| TPHd | <238 |
| TPHo | <476 |
| B | <5 |
| T | <5 |
| E | <5 |
| X | <15 |
| CIS 1-2 DCA | 177 |
| VC | 36.3 |
| TCE | 72 |
| MTBE | <5 |

LEGEND

- SITE BOUNDARY
- MW1 MONITORING WELL LOCATION AND ID
- B1 SOIL BORING LOCATIONS AND ID
- UST UNDERGROUND STORAGE TANK

ANALYTES

| | |
|---|---|
| TPHg | TOTAL PETROLEUM HYDROCARBONS GASOLINE |
| TPHd | TOTAL PETROLEUM HYDROCARBONS DIESEL |
| TPHo | TOTAL PETROLEUM HYDROCARBONS HEAVY OIL |
| B | BENZENE |
| T | TOLUENE |
| E | ETHYLBENZENE |
| X | TOTAL XYLENES |
| CIS 1-2 DCA | DICHLOROETHANE |
| VC | VINYL CHLORIDE |
| TCE | TRICHLOROETHANE |
| MTBE | METHYL TERT BUTYL ETHER |

| | |
|---|---|
| (µg/L) | MICROGRAMS PER LITER |
| ND | NOT DETECTED ABOVE REPORTING LIMITS |

NOTES:

1). ALL LOCATIONS ARE APPROXIMATE.

2). ALL RESULTS REPORTED IN µg/L .

North

0 30 60

APPROXIMATE SCALE (FEET)

SOURCE:
BASE MAP FROM; ENVIRONMENTAL RESOLUTIONS, INC. (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP- 06/09/03, PLATE 1, DATED 07/14/03, PROJECT NO. 31017. CADD FILE 31017.13.DWG


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PREPARED FOR:
ConocoPhillips
FACILITY NO 255028
247 D STREET
BLAINE, WASHINGTON

# GROUNDWATER ANALYTICAL RESULTS JUNE 9, 2005

FIGURE: 4

| JOB NUMBER: | DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: |
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| 01CP.05028.06 | SS/ARA | KJE | | 12/6/04 |

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**TABLE 1**
**SOIL SAMPLE ANALYTICAL RESULTS**
**ConocoPhillips Site No. 255028**
**247 'D' Street**
**Blaine, Washington**

| Sample Location | Sample Depth (bgs) | Sample Date | PID (mg/kg) | Total Petroleum Hydrocarbons (mg/kg) | | | Volatile Organic Compounds (mg/kg) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Gasoline | Diesel | Motor Oil | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE |
| B1-5 | 5.0 ft | 5/18/2005 | 8.6 | <3.83 | <26.2 | <52.4 | <0.0191 | <0.0383 | <0.0383 | <0.1148 | <0.0383 |
| B1-10 | 10.0 ft | 5/18/2005 | 7 | <5.25 | <34.1 | <68.1 | <0.0263 | <0.0525 | <0.0525 | <0.1575 | <0.0525 |
| B2-5 | 5.0 ft | 5/18/2005 | 28.7 | <4.17 | <29.8 | <59.7 | <0.0209 | <0.0417 | <0.0417 | <0.1251 | <0.0417 |
| B2-10 | 10.0 ft | 5/18/2005 | 7 | <4.78 | <27.5 | <54.9 | <0.000597 | <0.0478 | <0.00119 | <0.00358 | 0.00201 |
| MTCA A Cleanup Levels (mg/kg) | | | | 30/100[a] | 2,000 | 2,000 | 0.03 | 7 | 6 | 9 | 0.1 |

**NOTES:**

-- = Indicates sample not submitted for analysis of specified analyte
BOLD = Analyte detected at or above MTCA Method A cleanup levels
mg/kg = Milligrams per kilogram
bgs= bgs indicates depth below ground surface in feet where sample was obtained
a = MTCA Method A Soil Cleanup Levels for TPH-G are 100 mg/kg where no benzene is present and the total of toluene, ethylbenzene and xylene are less that 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.
MTCA = Model Toxics Control Act
TPH-G = Total Petroleum Hydrocarbons as Gasoline by Northwest Method NWTPH-G
TPH-D = Total Petroleum Hydrocarbons as Diesel by Northwest Method NWTPH-Dx with silica gel cleanup
TPH-O = Total Petroleum Hydrocarbons as Motor Oil by Northwest Method NWTPH-Dx
VOCs = Volatile Organic Compounds by U.S. Environmental Protection Agency (EPA) Method 5035/8021B
MTBE methyl tert-buytl ether
PID Photoionization Detector
BTEX = benzene, toluene, ethylbenzene and xylenes
Lab Note For NWTPH-Gx the surrogate 1-chloro-3-fluorobenzene was outside the QC limites. Probable due to matrix interference in the sample.
Lab Note TPH-g and VOCs are from revised lab report dated 7/6/2005

**TABLE 2**
**GROUNDWATER SAMPLE ANALYTICAL RESULTS**
**ConocoPhillips Site No. 255028**
**247 'D' Street**
**Blaine, Washington**

| Well ID TOC | Sample Date | DTW (feet) | GW Elev. (feet) | Total Petroleum Hydrocarbons (ug/L) | | |
|---|---|---|---|---|---|---|
| | | | | TPH-G | TPH-D | TPH-O |
| MW-7 | 06/09/05 | 3.16 | 92.21 | <100 | <238 | <476 |
| 95.37 | | | | | | |
| | | | | | | |
| MW-8 | 06/09/05 | 4.31 | 94.74 | <100 | <238 | <476 |
| 99.05 | | | | | | |
| | | | | | | |
| MTCA Method A Cleanup Level | | | | 1000/800[a] | 500 | 500 |

EXPLANATION:

All concentrations are in ug/L (ppb).
TOC = Top of casing elevation
DTW = Depth to water in feet below top of casing
GW Elev. = Groundwater elevation relative to top of casing elevations
TPH-G = Total Petroleum Hydrocarbons as Gasoline by Northwest Method NWTPH-Gx
TPH-D and TPH-O = Total Petroleum Hydrocarbons as Diesel and Oil, respectively, by Ecology Method NWTPH-Dx
< = Less than the stated laboratory reporting limit
Bolded values equal or exceed MTCA Method A Cleanup Levels.
[a] Concentration levels stated by MTCA Method A for TPH-G are 1000 µg/L when no benzene is present and 800 µg/L when benzene is present.

**TABLE 3**
**GROUNDWATER SAMPLE ANALYTICAL RESULTS**
**ConocoPhillips Site No. 255028**
**247 'D' Street**
**Blaine, Washington**

| Well ID TOC | Sample Date | DTW (feet) | GW Elev. (feet) | Volatile Organic Compounds (ug/L) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | B | T | E | X | 1,2-DCA | VC | MTBE | TCE |
| MW-7 | 06/09/05 | 3.16 | 92.21 | <1 | <1 | <1 | <3 | **156[E]** | **6.36** | **138[E]** | **14.6** |
| 95.37 | | | | | | | | | | | |
| | | | | | | | | | | | |
| MW-8 | 06/09/05 | 4.31 | 94.74 | <5 | <5 | <5 | <15 | **177** | **36.3** | <5 | **72** |
| 99.05 | | | | | | | | | | | |
| | | | | | | | | | | | |
| MTCA Method A Cleanup Level | | | | 5 | 1000 | 700 | 1000 | 5 | 0.2 | 20 | 5 |

EXPLANATION:

All concentrations are in ug/L (ppb).
TOC = Top of casing elevation
DTW = Depth to water in feet below top of casing
GW Elev. = Groundwater elevation relative to top of casing elevations
B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes
1,2-DCA =1,2-Dichloroethane; VC=Vinyl Chloride; MTBE=Methy tert-butyl ether; TCE= Trichloroethene
VOCs by EPA Method 8260B
Note: All other VOCs were below the laboratory reporting limit
E=Value is estimated
< = Less than the stated laboratory reporting limit
Bolded values equal or exceed MTCA Method A Cleanup Levels.

**ATTACHMENT A**
**LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION**
Subsurface Investigation
247 'D' Street
Blaine Washington
ConocoPhillips Facility No. 255028
October 21, 2005

SEVERN TRENT STL

**STL Seattle**
5755 8th Street East
Tacoma, WA 98424

Tel: 253 922 2310
Fax: 253 922 5047
www.stl-inc.com

**TRANSMITTAL MEMORANDUM**

DATE: June 30, 2005

TO: Alice Larsen
SECOR International Inc.
12034 134th Ct. NE, Suite 102
Redmond, WA 98052

PROJECT: 5028, Blaine WA

REPORT NUMBER: 128329

TOTAL NUMBER OF PAGES: _____

Enclosed are the test results for two samples received at STL Seattle on June 10, 2005.

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

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

Sincerely,

Tom Coyner
Project Manager

# STL Seattle

Sample Identification:

| Lab. No. | Client ID | Date/Time Sampled | Matrix |
|---|---|---|---|
| 128329-1 | MW-7 | 06-09-05 12:15 | Liquid |
| 128329-2 | MW-8 | 06-09-05 12:30 | Liquid |

# STL Seattle

| | |
|---|---|
| Client Name: | SECOR International Inc. |
| Client ID: | MW-7 |
| Lab ID: | 128329-01 |
| Date Received: | 6/10/2005 |
| Date Prepared: | 6/20/2005 |
| Date Analyzed: | 6/20/2005 |
| % Solids | - |
| Dilution Factor | 1 |

**Volatile Organics by USEPA Method 5035\8260B**

| | | | Recovery Limits | |
|---|---|---|---|---|
| **Surrogate** | **% Recovery** | **Flags** | **Low** | **High** |
| Dibromofluoromethane | 95.8 | | 80 | 120 |
| Fluorobenzene | 101 | | 80 | 120 |
| Toluene-D8 | 101 | | 80 | 120 |
| Ethylbenzene-d10 | 104 | | 80 | 120 |
| Bromofluorobenzene | 96.7 | | 80 | 120 |
| Trifluorotoluene | 115 | | 80 | 120 |

| **Analyte** | **Result (ug/L)** | **RL** | **Flags** |
|---|---|---|---|
| Chloromethane | ND | 1 | |
| Vinyl chloride | 6.36 | 1 | |
| Bromomethane | ND | 1 | |
| Chloroethane | ND | 1 | |
| Trichlorofluoromethane | ND | 1 | |
| 1,1-Dichloroethene | ND | 1 | |
| Methylene chloride | ND | 1 | |
| Methyl tert-butyl ether | 138 | 1 | E |
| trans-1,2-Dichloroethene | ND | 1 | |
| 1,1-Dichloroethane | ND | 1 | |
| cis-1,2-Dichloroethene | 156 | 1 | E |
| Chloroform | ND | 1 | |
| 1,1,1-Trichloroethane | ND | 1 | |
| Carbon Tetrachloride | ND | 1 | |
| Benzene | ND | 1 | |
| 1,2-Dichloroethane | ND | 1 | |
| Trichloroethene | 14.6 | 1 | |
| 1,2-Dichloropropane | ND | 1 | |
| Bromodichloromethane | ND | 1 | |
| cis-1,3-Dichloropropene | ND | 1 | |
| Toluene | ND | 1 | |
| trans-1,3-Dichloropropene | ND | 1 | |
| 1,1,2-Trichloroethane | ND | 1 | |
| Tetrachloroethene | ND | 1 | |
| Dibromochloromethane | ND | 1 | |
| Chlorobenzene | ND | 1 | |

# STL Seattle

Volatile Organics by USEPA Method 5035\8260B data for 128329-01 continued...

| Analyte | Result (ug/L) | RL | Flags |
|---|---|---|---|
| Ethylbenzene | ND | 1 | |
| m,p-Xylene | ND | 2 | |
| o-Xylene | ND | 1 | |
| Bromoform | ND | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | 1 | |
| 1,3-Dichlorobenzene | ND | 1 | |
| 1,4-Dichlorobenzene | ND | 1 | |
| 1,2-Dichlorobenzene | ND | 1 | |

# STL Seattle

| | |
|---|---|
| Client Name | SECOR International Inc. |
| Client ID: | MW-7 - dilution |
| Lab ID: | 128329L01 |
| Date Received: | - |
| Date Prepared: | 6/29/2005 |
| Date Analyzed: | 6/29/2005 |
| % Solids | - |
| Dilution Factor | 5 |

**Volatile Organics by USEPA Method 624**

| SMC / Surrogate | % Recovery | Flags | Recovery Limits Low | Recovery Limits High |
|---|---|---|---|---|
| Dibromofluoromethane | 91.1 | | 74.5 | 118 |
| Fluorobenzene | 103 | | 75 | 120 |
| Toluene-D8 | 104 | | 78 | 123 |
| Ethylbenzene-d10 | 100 | | 77 | 126 |
| Bromofluorobenzene | 93.7 | | 72 | 120 |
| Trifluorotoluene | 112 | | 74 | 126 |

| Analyte | Result (ug/L) | RL | Flags |
|---|---|---|---|
| Chloromethane | ND | 5 | |
| Vinyl chloride | 6.28 | 5 | |
| Bromomethane | ND | 5 | |
| Chloroethane | ND | 5 | |
| Trichlorofluoromethane | ND | 5 | |
| 1,1-Dichloroethene | ND | 5 | |
| Methylene chloride | ND | 5 | |
| trans-1,2-Dichloroethene | ND | 5 | |
| 1,1-Dichloroethane | ND | 5 | |
| Chloroform | ND | 5 | |
| 1,1,1-Trichloroethane | ND | 5 | |
| Carbon Tetrachloride | ND | 5 | |
| Benzene | ND | 5 | |
| 1,2-Dichloroethane | ND | 5 | |
| Trichloroethene | 14.2 | 5 | |
| 1,2-Dichloropropane | ND | 5 | |
| Bromodichloromethane | ND | 5 | |
| 2-Chloroethyl vinyl ether | ND | 25 | |
| cis-1,3-Dichloropropene | ND | 5 | |
| Toluene | ND | 5 | |
| trans-1,3-Dichloropropene | ND | 5 | |
| 1,1,2-Trichloroethane | ND | 5 | |
| Tetrachloroethene | ND | 5 | |
| Dibromochloromethane | ND | 5 | |
| Chlorobenzene | ND | 5 | |
| Ethylbenzene | ND | 5 | |

# STL Seattle

Volatile Organics by USEPA Method 624 data for 128329L01 continued...

| Analyte | Result (ug/L) | RL | Flags |
|---|---|---|---|
| Bromoform | ND | 5 | |
| 1,1,2,2-Tetrachloroethane | ND | 5 | |
| 1,3-Dichlorobenzene | ND | 5 | |
| 1,4-Dichlorobenzene | ND | 5 | |
| 1,2-Dibromo-3-chloropropane | ND | 5 | |

# STL Seattle

| | |
|---|---|
| Client Name: | SECOR International Inc. |
| Client ID: | MW-8 |
| Lab ID: | 128329-02 |
| Date Received: | 6/10/2005 |
| Date Prepared: | 6/20/2005 |
| Date Analyzed: | 6/20/2005 |
| % Solids | - |
| Dilution Factor | 5 |

**Volatile Organics by USEPA Method 5035\8260B**

| Surrogate | % Recovery | Flags | Recovery Limits Low | High |
|---|---|---|---|---|
| Dibromofluoromethane | 89.3 | | 80 | 120 |
| Fluorobenzene | 100 | | 80 | 120 |
| Toluene-D8 | 104 | | 80 | 120 |
| Ethylbenzene-d10 | 106 | | 80 | 120 |
| Bromofluorobenzene | 99 | | 80 | 120 |
| Trifluorotoluene | 113 | | 80 | 120 |

| Analyte | Result (ug/L) | RL | Flags |
|---|---|---|---|
| Chloromethane | ND | 5 | |
| Vinyl chloride | 36.3 | 5 | |
| Bromomethane | ND | 5 | |
| Chloroethane | ND | 5 | |
| Trichlorofluoromethane | ND | 5 | |
| 1,1-Dichloroethene | ND | 5 | |
| Methylene chloride | ND | 5 | |
| Methyl tert-butyl ether | ND | 5 | |
| trans-1,2-Dichloroethene | ND | 5 | |
| 1,1-Dichloroethane | ND | 5 | |
| cis-1,2-Dichloroethene | 177 | 5 | |
| Chloroform | ND | 5 | |
| 1,1,1-Trichloroethane | ND | 5 | |
| Carbon Tetrachloride | ND | 5 | |
| Benzene | ND | 5 | |
| 1,2-Dichloroethane | ND | 5 | |
| Trichloroethene | 72 | 5 | |
| 1,2-Dichloropropane | ND | 5 | |
| Bromodichloromethane | ND | 5 | |
| cis-1,3-Dichloropropene | ND | 5 | |
| Toluene | ND | 5 | |
| trans-1,3-Dichloropropene | ND | 5 | |
| 1,1,2-Trichloroethane | ND | 5 | |
| Tetrachloroethene | ND | 5 | |
| Dibromochloromethane | ND | 5 | |
| Chlorobenzene | ND | 5 | |

# STL Seattle

Volatile Organics by USEPA Method 5035\8260B data for 128329-02 continued...

| Analyte | Result (ug/L) | RL | Flags |
|---|---|---|---|
| Ethylbenzene | ND | 5 | |
| m,p-Xylene | ND | 10 | |
| o-Xylene | ND | 5 | |
| Bromoform | ND | 5 | |
| 1,1,2,2-Tetrachloroethane | ND | 5 | |
| 1,3-Dichlorobenzene | ND | 5 | |
| 1,4-Dichlorobenzene | ND | 5 | |
| 1,2-Dichlorobenzene | ND | 5 | |

# STL Seattle

| | |
|---|---|
| Client Name: | SECOR International Inc. |
| Client ID: | MW-7 |
| Lab ID: | 128329-01 |
| Date Received: | 6/10/2005 |
| Date Prepared: | 6/20/2005 |
| Date Analyzed: | 6/22/2005 |
| % Solids | - |
| Dilution Factor | 1 |

**Gasoline Range Organics by Method NWTPH-Gx**

| | | | Recovery Limits | |
|---|---|---|---|---|
| **Surrogate** | **% Recovery** | **Flags** | **Low** | **High** |
| Trifluorotoluene | 121 | | 50 | 150 |
| 1-Chloro-3-fluorobenzene | 101 | | 50 | 150 |
| Bromofluorobenzene | 108 | | 50 | 150 |
| Pentafluorobenzene | 88.8 | | 50 | 150 |

| **Analyte** | **Result (mg/L)** | **RL** | **Flags** |
|---|---|---|---|
| Gasoline by NWTPH-G | ND | 0.1 | |

# STL Seattle

| | |
|---|---|
| Client Name: | SECOR International Inc. |
| Client ID: | MW-8 |
| Lab ID: | 128329-02 |
| Date Received: | 6/10/2005 |
| Date Prepared: | 6/20/2005 |
| Date Analyzed: | 6/22/2005 |
| % Solids | - |
| Dilution Factor | 1 |

**Gasoline Range Organics by Method NWTPH-Gx**

| | | | Recovery Limits | |
|---|---|---|---|---|
| **Surrogate** | **% Recovery** | **Flags** | **Low** | **High** |
| Trifluorotoluene | 124 | | 50 | 150 |
| 1-Chloro-3-fluorobenzene | 103 | | 50 | 150 |
| Bromofluorobenzene | 110 | | 50 | 150 |
| Pentafluorobenzene | 94.1 | | 50 | 150 |

| **Analyte** | **Result (mg/L)** | **RL** | **Flags** |
|---|---|---|---|
| Gasoline by NWTPH-G | ND | 0.1 | |

# STL Seattle

| | |
|---|---|
| Client Name: | SECOR International Inc. |
| Client ID: | MW-7 |
| Lab ID: | 128329-01 |
| Date Received: | 6/10/2005 |
| Date Prepared: | 6/15/2005 |
| Date Analyzed: | 6/15/2005 |
| % Solids | - |
| Dilution Factor | 1 |

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

| | | | Recovery Limits | |
|---|---|---|---|---|
| **Surrogate** | **% Recovery** | **Flags** | **Low** | **High** |
| o-terphenyl | 73.6 | | 50 | 150 |

| | **Result** | | | |
|---|---|---|---|---|
| **Analyte** | **(mg/L)** | | **RL** | **Flags** |
| #2 Diesel | ND | | 0.238 | |
| Motor Oil | ND | | 0.476 | |

# STL Seattle

| | |
|---|---|
| Client Name: | SECOR International Inc. |
| Client ID: | MW-8 |
| Lab ID: | 128329-02 |
| Date Received: | 6/10/2005 |
| Date Prepared: | 6/15/2005 |
| Date Analyzed: | 6/15/2005 |
| % Solids | - |
| Dilution Factor | 1 |

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

| | | | Recovery Limits | |
|---|---|---|---|---|
| **Surrogate** | **% Recovery** | **Flags** | **Low** | **High** |
| o-terphenyl | 79.2 | | 50 | 150 |

| **Analyte** | **Result (mg/L)** | **RL** | **Flags** |
|---|---|---|---|
| #2 Diesel | ND | 0.238 | |
| Motor Oil | ND | 0.476 | |

# STL Seattle

| | |
|---|---|
| Lab ID: | Method Blank - VOA1368 |
| Date Received: | - |
| Date Prepared: | 6/20/2005 |
| Date Analyzed: | 6/20/2005 |
| % Solids | - |
| Dilution Factor | 1 |

**Volatile Organics by USEPA Method 5035\8260B**

| Surrogate | % Recovery | Flags | Recovery Limits Low | High |
|---|---|---|---|---|
| Dibromofluoromethane | 93.9 | | 80 | 120 |
| Fluorobenzene | 103 | | 80 | 120 |
| Toluene-D8 | 111 | | 80 | 120 |
| Ethylbenzene-d10 | 111 | | 80 | 120 |
| Bromofluorobenzene | 103 | | 80 | 120 |
| Trifluorotoluene | 99.8 | | 80 | 120 |

| Analyte | Result (ug/L) | RL | Flags |
|---|---|---|---|
| Chloromethane | ND | 1 | |
| Vinyl chloride | ND | 1 | |
| Bromomethane | ND | 1 | |
| Chloroethane | ND | 1 | |
| Trichlorofluoromethane | ND | 1 | |
| 1,1-Dichloroethene | ND | 1 | |
| Methylene chloride | ND | 1 | |
| Methyl tert-butyl ether | ND | 1 | |
| trans-1,2-Dichloroethene | ND | 1 | |
| 1,1-Dichloroethane | ND | 1 | |
| cis-1,2-Dichloroethene | ND | 1 | |
| Chloroform | ND | 1 | |
| 1,1,1-Trichloroethane | ND | 1 | |
| Carbon Tetrachloride | ND | 1 | |
| Benzene | ND | 1 | |
| 1,2-Dichloroethane | ND | 1 | |
| Trichloroethene | ND | 1 | |
| 1,2-Dichloropropane | ND | 1 | |
| Bromodichloromethane | ND | 1 | |
| cis-1,3-Dichloropropene | ND | 1 | |
| Toluene | ND | 1 | |
| trans-1,3-Dichloropropene | ND | 1 | |
| 1,1,2-Trichloroethane | ND | 1 | |
| Tetrachloroethene | ND | 1 | |
| Dibromochloromethane | ND | 1 | |
| Chlorobenzene | ND | 1 | |

# STL Seattle

Volatile Organics by USEPA Method 5035\8260B data for VOA1368 continued...

| Analyte | Result (ug/L) | RL | Flags |
|---|---|---|---|
| Ethylbenzene | ND | 1 | |
| m,p-Xylene | ND | 2 | |
| o-Xylene | ND | 1 | |
| Bromoform | ND | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | 1 | |
| 1,3-Dichlorobenzene | ND | 1 | |
| 1,4-Dichlorobenzene | ND | 1 | |
| 1,2-Dichlorobenzene | ND | 1 | |

# STL Seattle

| | |
|---|---|
| Lab ID: | Method Blank - VOA1394 |
| Date Received: | - |
| Date Prepared: | 6/29/2005 |
| Date Analyzed: | 6/29/2005 |
| % Solids | - |
| Dilution Factor | 1 |

**Volatile Organics by USEPA Method 624**

| SMC / Surrogate | % Recovery | Flags | Recovery Limits Low | Recovery Limits High |
|---|---|---|---|---|
| Dibromofluoromethane | 92.8 | | 74.5 | 118 |
| Fluorobenzene | 106 | | 75 | 120 |
| Toluene-D8 | 105 | | 78 | 123 |
| Ethylbenzene-d10 | 105 | | 77 | 126 |
| Bromofluorobenzene | 101 | | 72 | 120 |
| Trifluorotoluene | 108 | | 74 | 126 |

| Analyte | Result (ug/L) | RL | Flags |
|---|---|---|---|
| Chloromethane | ND | 1 | |
| Vinyl chloride | ND | 1 | |
| Bromomethane | ND | 1 | |
| Chloroethane | ND | 1 | |
| Trichlorofluoromethane | ND | 1 | |
| 1,1-Dichloroethene | ND | 1 | |
| Methylene chloride | ND | 1 | |
| trans-1,2-Dichloroethene | ND | 1 | |
| 1,1-Dichloroethane | ND | 1 | |
| Chloroform | ND | 1 | |
| 1,1,1-Trichloroethane | ND | 1 | |
| Carbon Tetrachloride | ND | 1 | |
| Benzene | ND | 1 | |
| 1,2-Dichloroethane | ND | 1 | |
| Trichloroethene | ND | 1 | |
| 1,2-Dichloropropane | ND | 1 | |
| Bromodichloromethane | ND | 1 | |
| 2-Chloroethyl vinyl ether | ND | 5 | |
| cis-1,3-Dichloropropene | ND | 1 | |
| Toluene | ND | 1 | |
| trans-1,3-Dichloropropene | ND | 1 | |
| 1,1,2-Trichloroethane | ND | 1 | |
| Tetrachloroethene | ND | 1 | |
| Dibromochloromethane | ND | 1 | |
| Chlorobenzene | ND | 1 | |
| Ethylbenzene | ND | 1 | |

# STL Seattle

Volatile Organics by USEPA Method 624 data for VOA1394 continued...

| Analyte | Result (ug/L) | RL | Flags |
|---|---|---|---|
| Bromoform | ND | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | 1 | |
| 1,3-Dichlorobenzene | ND | 1 | |
| 1,4-Dichlorobenzene | ND | 1 | |
| 1,2-Dibromo-3-chloropropane | ND | 1 | |

# STL Seattle

Blank Spike/Blank Spike Duplicate Report

| | |
|---|---|
| Lab ID: | VOA1368 |
| Date Prepared: | 6/20/2005 |
| Date Analyzed: | 6/20/2005 |
| QC Batch ID: | VOA1368 |

Volatile Organics by USEPA Method 5035\8260B

| Compound Name | Blank Result (ug/L) | Spike Amount (ug/L) | BS Result (ug/L) | BS % Rec. | BSD Result (ug/L) | BSD % Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0 | 5 | 4.57 | 91.4 | 4.39 | 87.8 | -4 | |
| Benzene | 0 | 5 | 4.74 | 94.8 | 4.51 | 90.2 | -5 | |
| Trichloroethene | 0 | 5 | 5.29 | 106 | 5.17 | 103 | -2.9 | |
| Toluene | 0 | 5 | 4.85 | 97 | 4.77 | 95.5 | -1.6 | |
| Chlorobenzene | 0 | 5 | 4.87 | 97.3 | 4.83 | 96.5 | -0.83 | |

# STL Seattle

Blank Spike Report

| | |
|---|---|
| Lab ID: | VOA1394 |
| Date Prepared: | 6/29/2005 |
| Date Analyzed: | 6/29/2005 |
| QC Batch ID: | VOA1394 |

Volatile Organics by USEPA Method 624

| Compound Name | Blank Result (ug/L) | Spike Amount (ug/L) | BS Result (ug/L) | BS % Rec. | Flag |
|---|---|---|---|---|---|
| Chloromethane | 0 | 5 | 4.5 | 90 | |
| Vinyl chloride | 0 | 5 | 5.09 | 102 | |
| Bromomethane | 0 | 5 | 3.13 | 62.6 | |
| Chloroethane | 0 | 5 | 3.28 | 65.6 | |
| Trichlorofluoromethane | 0 | 5 | 6.13 | 123 | |
| 1,1-Dichloroethene | 0 | 5 | 5.86 | 117 | |
| Methylene chloride | 0 | 5 | 5.14 | 103 | |
| trans-1,2-Dichloroethene | 0 | 5 | 5.28 | 106 | |
| 1,1-Dichloroethane | 0 | 5 | 5.34 | 107 | |
| Chloroform | 0 | 5 | 4.88 | 97.6 | |
| 1,1,1-Trichloroethane | 0 | 5 | 5.43 | 109 | |
| Carbon Tetrachloride | 0 | 5 | 5.17 | 103 | |
| Benzene | 0 | 5 | 5.09 | 102 | |
| 1,2-Dichloroethane | 0 | 5 | 5.35 | 107 | |
| Trichloroethene | 0 | 5 | 5.09 | 102 | |
| 1,2-Dichloropropane | 0 | 5 | 5.02 | 100 | |
| Bromodichloromethane | 0 | 5 | 4.96 | 99.2 | |
| 2-Chloroethyl vinyl ether | 0 | 25 | 23.6 | 94.2 | |
| cis-1,3-Dichloropropene | 0 | 5 | 5.01 | 100 | |
| Toluene | 0 | 5 | 4.97 | 99.3 | |
| trans-1,3-Dichloropropene | 0 | 5 | 4.38 | 87.5 | |
| 1,1,2-Trichloroethane | 0 | 5 | 4.96 | 99.3 | |
| Tetrachloroethene | 0 | 5 | 4.96 | 99.2 | |
| Dibromochloromethane | 0 | 5 | 4.57 | 91.4 | |
| Chlorobenzene | 0 | 5 | 5.01 | 100 | |
| Ethylbenzene | 0 | 5 | 5.16 | 103 | |
| Bromoform | 0 | 5 | 4.7 | 94 | |
| 1,1,2,2-Tetrachloroethane | 0 | 5 | 5.15 | 103 | |
| 1,3-Dichlorobenzene | 0 | 5 | 4.72 | 94.5 | |
| 1,4-Dichlorobenzene | 0 | 5 | 5.08 | 102 | |

# STL Seattle

| | |
|---|---|
| Lab ID: | Method Blank - GB5190 |
| Date Received: | - |
| Date Prepared: | 6/20/2005 |
| Date Analyzed: | 6/21/2005 |
| % Solids | - |
| Dilution Factor | 1 |

**Gasoline Range Organics by Method NWTPH-Gx**

| | | | Recovery Limits | |
|---|---|---|---|---|
| **Surrogate** | **% Recovery** | **Flags** | **Low** | **High** |
| Trifluorotoluene | 102 | | 50 | 150 |
| 1-Chloro-3-fluorobenzene | 90 | | 50 | 150 |
| Bromofluorobenzene | 98.3 | | 50 | 150 |
| Pentafluorobenzene | 81.2 | | 50 | 150 |

| **Analyte** | **Result (mg/L)** | **RL** | **Flags** |
|---|---|---|---|
| Gasoline by NWTPH-G | ND | 0.1 | |

# STL Seattle

Blank Spike/Blank Spike Duplicate Report

| | |
|---|---|
| Lab ID: | GB5190 |
| Date Prepared: | 6/20/2005 |
| Date Analyzed: | 6/21/2005 |
| QC Batch ID: | GB5190 |

Gasoline Range Organics by Method NWTPH-Gx

| Compound Name | Blank Result (mg/L) | Spike Amount (mg/L) | BS Result (mg/L) | BS % Rec. | BSD Result (mg/L) | BSD % Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|---|
| Gasoline by NWTPH-G | 0 | 1.25 | 1.34 | 107 | 0.973 | 77.8 | -32 | |

00020

# STL Seattle

| | |
|---|---|
| Lab ID: | Method Blank - DW0784 |
| Date Received: | - |
| Date Prepared: | 6/15/2005 |
| Date Analyzed: | 6/15/2005 |
| % Solids | - |
| Dilution Factor | 1 |

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

| | | | Recovery Limits | |
|---|---|---|---|---|
| **Surrogate** | **% Recovery** | **Flags** | **Low** | **High** |
| o-terphenyl | 86.7 | | 50 | 150 |

| **Analyte** | **Result (mg/L)** | **RL** | **Flags** |
|---|---|---|---|
| #2 Diesel | ND | 0.25 | |
| Motor Oil | ND | 0.5 | |

# STL Seattle

Blank Spike/Blank Spike Duplicate Report

| | |
|---|---|
| Lab ID: | DW0784 |
| Date Prepared: | 6/15/2005 |
| Date Analyzed: | 6/15/2005 |
| QC Batch ID: | DW0784 |

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

| Compound Name | Blank Result (mg/L) | Spike Amount (mg/L) | BS Result (mg/L) | BS % Rec. | BSD Result (mg/L) | BSD % Rec. | RPD | Flag |
|---|---|---|---|---|---|---|---|---|
| #2 Diesel | 0 | 5 | 5.37 | 107 | 5.07 | 101 | -5.8 | |
| Motor Oil | 0 | 5 | 5 | 100 | 4.8 | 96 | -4.1 | |

SEVERN TRENT STL

STL Seattle
5755 8th Street East
Tacoma, WA 98424

Tel: 253 922 2310
Fax: 253 922 5047
www.stl-inc.com

## DATA QUALIFIERS AND ABBREVIATIONS

B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).

B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).

C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be < 40%.

C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.

C3: Second analysis confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be ≤ 30%.

C4: Second analysis confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 30%. The presence of this analyte was not verified per WAC 246-290-010. The original analysis was reported unless anomalies were noted.

M: GC/MS confirmation was performed. The result derived from the original analysis was reported.

D: The reported result for this analyte was calculated based on a secondary dilution factor.

E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.

J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

MCL: Maximum Contaminant Level

MDL: Method Detection Limit

MRL: Method Reporting Limit

N: See analytical narrative

ND: Not Detected

PQL: Practical Quantitation Limit

X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____.

X2: Contaminant does not appear to be "typical" product.

X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.

X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.

X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.

X5: Matrix spike recovery was not determined due to the required dilution.

X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was re-analyzed with similar results.

X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.

X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.

X8: Surrogate recovery was not determined due to the required dilution.

X9: Surrogate recovery outside advisory QC limits due to matrix interference.

00023

# Chain of Custody Record

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

4.7 0/1° JD

SEVERN TRENT STL

| Client | Project Manager | Date | Chain of Custody Number |
|---|---|---|---|
| SECOR | Alice Larsen | 6.10.05 | 15551 |
| Address | Telephone Number (Area Code)/Fax Number | Lab Number | Page 1 of 1 |
| | 425.372.1600 | 128329 | |
| City / State / Zip Code: Redmond / WA / 98052 | Site Contact | Lab Contact | |
| Project Name and Location (State): 5028 Blaine WA | Carrier/Waybill Number | | |
| Contract/Purchase Order/Quote No. | | | |

| Sample I.D. and Location/Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Analysis: 6x BTEX/MTBE | HVOCs | Dx | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7 | 6 9 05 | 12:15 | | X | | | | | | | | | 1 | 1 | 1 | |
| MW-8 | ↓ | 12:30 | | ↓ | | | | | | | | | | | | |

Cooler: [X] Yes [ ] No Cooler Temp:____

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

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

Turn Around Time Required (business days): [ ] 24 Hours [ ] 48 Hours [ ] 5 Days [X] 10 Days [ ] 15 Days [ ] Other ____

QC Requirements (Specify)

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: Meredith Redmon | 6.10.05 | 9:00 | 1. Received By: STL | 6/10/05 | 11:30 |
| 2. Relinquished By: | 6/10/05 | 12:55 | 2. Received By: | 6/10/05 | 1258 |
| 3. Relinquished By: | Date | Time | 3. Received By: | Date | Time |

Comments



DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

SEVERN TRENT STL

**STL Seattle**
5755 8th Street East
Tacoma, WA 98424

Tel: 253 922 2310
Fax 253 922 5047
www.stl-inc.com

**TRANSMITTAL MEMORANDUM**

DATE: July 6, 2005

TO: Alice Larsen
SECOR International Inc.
12034 134th Ct. NE, Suite 102
Redmond, WA 98052

PROJECT: 5028, Blaine WA

REPORT NUMBER: 127968 REV

TOTAL NUMBER OF PAGES: _____

Enclosed are the test results for four samples received at STL Seattle on May 19, 2005.

The Benzene reporting limits were adjusted to low level for this revision.

**Nonconformance Narrative:** For NWTPH-GX the Surrogate 1-Chloro-3-fluorbenzene was outside the QC limits. Probable due to matrix interference in the sample.

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

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

Sincerely,

Tom Coyner
Project Manager

# STL Seattle

Sample Identification:

| Lab. No. | Client ID | Date/Time Sampled | Matrix |
|---|---|---|---|
| 127968-1 | B1-5 | 05-18-05 09:28 | solid |
| 127968-2 | B1-10 | 05-18-05 09:40 | solid |
| 127968-3 | B2-5 | 05-18-05 10:30 | solid |
| 127968-4 | B2-10 | 05-18-05 10:35 | solid |

| | |
|---|---|
| Client Name: | SECOR International Inc. |
| Client ID: | B1-5 |
| Lab ID: | 127968-01 |
| Date Received: | 5/19/05 |
| Date Prepared: | 5/26/05 |
| Date Analyzed: | 5/26/05 |
| % Solids | 86.81 |
| Dilution Factor | 1 |

**GRO by NWTPH-Gx / Volatile Aromatics by 5035/8021B**

| Surrogate | % Recovery | Flags | Recovery Limits Low | Recovery Limits High |
|---|---|---|---|---|
| Trifluorotoluene | 111 | | 50 | 150 |
| 1-Chloro-3-fluorobenzene | 137 | | 76 | 137 |

Sample results are on a dry weight basis.

| Analyte | Result (mg/kg) | RL | Flags |
|---|---|---|---|
| Gasoline By NWTPH-G | ND | 3.83 | |
| MTBE | ND | 0.0383 | |
| Benzene | ND | 0.0191 | |
| Toluene | ND | 0.0383 | |
| Ethylbenzene | ND | 0.0383 | |
| m&p-Xylene | ND | 0.0765 | |
| o-Xylene | ND | 0.0383 | |

# STL Seattle

| | |
|---|---|
| Client Name: | SECOR International Inc. |
| Client ID: | B1-10 |
| Lab ID: | 127968-02 |
| Date Received: | 5/19/05 |
| Date Prepared: | 5/26/05 |
| Date Analyzed: | 5/26/05 |
| % Solids | 69.78 |
| Dilution Factor | 1 |

**GRO by NWTPH-Gx / Volatile Aromatics by 5035/8021B**

| | | | Recovery Limits | |
|---|---|---|---|---|
| **Surrogate** | **% Recovery** | **Flags** | **Low** | **High** |
| Trifluorotoluene | 94.8 | | 50 | 150 |
| 1-Chloro-3-fluorobenzene | 176 | N | 76 | 137 |

Sample results are on a dry weight basis.

| **Analyte** | **Result (mg/kg)** | **RL** | **Flags** |
|---|---|---|---|
| Gasoline By NWTPH-G | ND | 5.25 | |
| MTBE | ND | 0.0525 | |
| Benzene | ND | 0.0263 | |
| Toluene | ND | 0.0525 | |
| Ethylbenzene | ND | 0.0525 | |
| m&p-Xylene | ND | 0.105 | |
| o-Xylene | ND | 0.0525 | |

# STL Seattle

| | |
|---|---|
| Client Name: | SECOR International Inc. |
| Client ID: | B2-5 |
| Lab ID: | 127968-03 |
| Date Received: | 5/19/05 |
| Date Prepared: | 5/26/05 |
| Date Analyzed: | 5/26/05 |
| % Solids | 75.62 |
| Dilution Factor | 1 |

**GRO by NWTPH-Gx / Volatile Aromatics by 5035/8021B**

| Surrogate | % Recovery | Flags | Recovery Limits Low | Recovery Limits High |
|---|---|---|---|---|
| Trifluorotoluene | 94.9 | | 50 | 150 |
| 1-Chloro-3-fluorobenzene | 150 | N | 76 | 137 |

Sample results are on a dry weight basis.

| Analyte | Result (mg/kg) | RL | Flags |
|---|---|---|---|
| Gasoline By NWTPH-G | ND | 4.17 | |
| MTBE | ND | 0.0417 | |
| Benzene | ND | 0.0209 | |
| Toluene | ND | 0.0417 | |
| Ethylbenzene | ND | 0.0417 | |
| m&p-Xylene | ND | 0.0834 | |
| o-Xylene | ND | 0.0417 | |

# STL Seattle

| | |
|---|---|
| Client Name: | SECOR International Inc. |
| Client ID: | B2-10 |
| Lab ID: | 127968-04 |
| Date Received: | 5/19/05 |
| Date Prepared: | 5/27/05 |
| Date Analyzed: | 5/28/05 |
| % Solids | 79.79 |
| Dilution Factor | 1 |

**GRO by NWTPH-Gx / Volatile Aromatics by 5030/8021B**

| | | | Recovery Limits | |
|---|---|---|---|---|
| **Surrogate** | **% Recovery** | **Flags** | **Low** | **High** |
| Trifluorotoluene | 94.6 | | 50 | 150 |
| 1-Chloro-3-fluorobenzene | 90 | | 76 | 137 |
| Bromofluorobenzene | 98 | | 79 | 132 |
| Pentafluorobenzene | 88 | | 76 | 142 |

Sample results are on a dry weight basis.

| **Analyte** | **Result (mg/kg)** | **RL** | **Flags** |
|---|---|---|---|
| Gasoline By NWTPH-G | ND | 0.119 | |
| MTBE | 0.00201 | 0.00119 | |
| Benzene | ND | 0.000597 | |
| Toluene | ND | 0.00119 | |
| Ethylbenzene | ND | 0.00119 | |
| m&p-Xylene | ND | 0.00239 | |
| o-Xylene | ND | 0.00119 | |

# Chain of Custody Record

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

127968

SEVERN TRENT STL

| Client | Project Manager | Date | Chain of Custody Number |
|---|---|---|---|
| SECOR | Alice Larsen | 5.19.05 | 16480 |
| Address | Telephone Number (Area Code)/Fax Number | Lab Number | Page 1 of 1 |
| | 360-931-3608 | | |
| City / State / Zip Code | Site Contact | Lab Contact | |
| Redmond / WA / 98052 | | | |
| Project Name and Location (State) | Carrier/Waybill Number | | |
| 5028 Blaine WA | | | |
| Contract/Purchase Order/Quote No. | | | |
| 1344SECO10 | | | |

| Sample I.D. and Location/Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | Containers & Preservatives: Unpres. | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | ZnAc/NaOH | Analysis (Attach list if more space is needed) | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B1-5 | 5.18.05 | 9:28 | | | | X | | | | | | | 6x BTEX/MTBE; 1x S.G. cleanup | |
| B1-10 | | 9:40 | | | | | | | | | | | | |
| B2-5 | | 10:30 | | | | | | | | | | | | |
| B2-10 | | 10:35 | | | | | | | | | | | | |

Cooler: [X] Yes [ ] No Cooler Temp: _____

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

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

Turn Around Time Required (business days): [ ] 24 Hours [ ] 48 Hours [X] 5 Days [ ] 10 Days [ ] 15 Days [ ] Other _____

QC Requirements (Specify)

| | | | | | |
|---|---|---|---|---|---|
| 1. Relinquished By: Mueddl Kudmar | Date: 5.19.05 | Time: 9:00 | 1. Received By: | Date: 5/19/05 | Time: 10:10 |
| 2. Relinquished By: | Date: 5/19/05 | Time: 11:40 | 2. Received By: | Date: 5/19/5 | Time: 11:40 |
| 3. Relinquished By: | Date: | Time: | 3. Received By: | Date: | Time: |

Comments

17000
20000

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

STL8274-580 (12/02)

**ATTACHMENT B**
**BORING LOGS**
Subsurface Investigation
247 'D' Street
Blaine Washington
ConocoPhillips Facility No. 255028
October 21, 2005

PROJECT: **CONOCOPHILIPS**
LOCATION: **247 "D" STREET BLAINE, WA**
PROJECT NUMBER: **FACILITY NO: 5028**

WELL / PROBEHOLE / BOREHOLE NO: **B-1/MW-7** PAGE 1 OF 1

SECOR

DRILLING: STARTED **5/18/05** COMPLETED: **5/18/05**
INSTALLATION: STARTED **5/18/05** COMPLETED: **5/18/05**
DRILLING COMPANY: **CASCADE**
DRILLING EQUIPMENT: **HSA**
DRILLING METHOD:
SAMPLING EQUIPMENT:

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **13.0**
STATIC DTW (ft): **5 5/18/05** WELL DEPTH (ft): ---
WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **8**
LOGGED BY: **MR** CHECKED BY:

| Time & Depth (feet) | Graphic Log | USCS | Description | Sample | Time Sample ID | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) | Borehole Backfill |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cleared to 5'. | | | | | | | 0-1.5' Concrete |
| 5 | | SM | **SAND WITH SILT** ; SM; OLIVE GRAY; loose; moist | | N/A B-1/MW-7@ 5-5' | | 11 7 6 | 8.6 | 5 | |
| 10 | | SM | **SAND WITH SILT** ; SM; OLIVE GRAY light; dense; moist | | N/A B-1/MW-7@ 10-10' | | 1 2 3 | 7.0 | 10 | |
| | | | Hole terminated at 13 feet. | | | | | | | |
| 15 | | | | | | | | | 15 | |
| 20 | | | | | | | | | 20 | |
| 25 | | | | | | | | | 25 | |
| 30 | | | | | | | | | 30 | |
| 35 | | | | | | | | | 35 | |

GEO FORM 304 01CP0502810.GPJ SECOR INTL.GDT 10/21/05

PROJECT: CONOCOPHILIPS
LOCATION: 247 "D" STREET BLAINE, WA
PROJECT NUMBER: FACILITY NO. 5028

WELL / PROBEHOLE / BOREHOLE NO: B-2/MW-8 PAGE 1 OF 1

SECOR

DRILLING: STARTED 5/18/05 COMPLETED: 5/18/05
INSTALLATION: STARTED 5/18/05 COMPLETED: 5/18/05
DRILLING COMPANY: CASCADE
DRILLING EQUIPMENT: HSA
DRILLING METHOD:
SAMPLING EQUIPMENT:

NORTHING (ft):
EASTING (ft):
LATITUDE:
LONGITUDE:
GROUND ELEV (ft):
TOC ELEV (ft):
INITIAL DTW (ft): NE
BOREHOLE DEPTH (ft): 13.0
STATIC DTW (ft): 7 5/18/05
WELL DEPTH (ft): ---
WELL CASING DIAMETER (in): ---
BOREHOLE DIAMETER (in): 8
LOGGED BY: MR
CHECKED BY:

| Time & Depth (feet) | Graphic Log | USCS | Description | Sample | Time Sample ID | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) | Borehole Backfill |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cleared to 5'. | | | | | | | 0-1.5' Concrete |
| 5 | | SM | **SAND WITH SILT** ; SM; OLIVE GRAY; dense; moist | | N/A B-2/MW-8@ 5-5' | | 3 5 4 | 28.7 | 5 | |
| 10 | | SM | **SAND WITH SILT** ; SM; OLIVE GRAY; dense; moist | | N/A B-2/MW-8@ 10-10' | | 1 3 4 | 7.0 | 10 | |
| | | | Hole terminated at 13 feet. | | | | | | | |
| 15 | | | | | | | | | 15 | |
| 20 | | | | | | | | | 20 | |
| 25 | | | | | | | | | 25 | |
| 30 | | | | | | | | | 30 | |
| 35 | | | | | | | | | 35 | |

GEO FORM 304 01CP0502810.GPJ SECOR INTL.GDT 10/21/05