

CRA 12/07/07 LK

Q-Time # 40121







UST PETROLEUM RELEASE FORM

(This Section for DEQ Use Only)

DEQ	RECEIVED BY:
Sante of Oregon Department of Environmental	
DATE REPORTED: (today's date)	7 DATE DISCOVERED: 8/6/07
SITE NAME: 255216	1036
SITE ADDRESS: 11400 SW Beaverton Hillsdale High	ghway ✓ REGULATED UST & FAC NBR: 1036
SITE CITY: Beaverton ZIP: 97005	NON-REGULATED UST
SITE COUNTY: Washington PHONE: 510-24:	-MAIL CONTACTS
REPORTED BY (required, person reporting this release to DEQ)	RESPONSIBLE PARTY (required, person responsible for remedial action)
NAME: Justin Dauphinais	NAMI: Myron W. Smith
COMPANY: SECOR International Inc.	Company: ConocoPhillips
ADDRESS: 7730 SW Mohawk Street	ADDRESS: 1230 West Washington Street
CITY: Tualatin ZIP: 97062	CITY Tempe ZIP: 85281
STATE: OR PHONE: 503-691-2030	STATIE: AZ PHONE: 602-452-2505
EMAIL: jdauphinais@secor.com	EMAIL: myron.w.smith@conocophillips.com
INVOICE CONTACT (required, may be same as responsible party	OTHICR CONTACT(S) (Optional Information)
NAME. Michael D. Noll	NAMII Alice Larsen
COMPANY: DXT service LLC, Noll Environment	SECOR International Inc.
ADDRESS: 11921 185th Avenue SE	ADDRESS: 7730 SW Mohawk Street
CITY: Snohomish ZIP: 98290	CITY: Tualatin zip: 97062
STATE: WA PHONE: 360-794-9523	STATI: OR PHONE: 360-356-4657
DISCOVERY: (check one) DECOMMISSIONING ROUTINE MONITORING COMPLAINT LEAK DETECTION SITE ASSESSMENT (For CAUSE: (check one) OVERFILL SPILL COMPLAINT COMPLAINT COMPLAINT COMPLAINT DEAK DETECTION SITE ASSESSMENT OTHER OTHER OTHER UNKNOWN	Cause and Source Descriptions – See Next Page) SOURCE: (check one)
HEATING OIL UNLEADED GASOLINE DIESEL MOTOR FUEL WASTE OIL OTHER PET. DIST. CHEMICAL	MINANTS (Sclect one or more) LICADED GASOLINE LUBRICANT MIBE TED MEDIA (Select one or more)-
	SURFACE WATER SOIL VAPORS FREE PRODUCT
	Charles Costion Department Hee Only)
SIIE-MANAG	EMENT (This Section Department Use Only)
RELEASE STOPPED.	FINAL REQUEST INVOICE DATE:
CLEANUP STARTED:	NO FURTHER ACTION.
NOTES/COMMENTS:	
May2007	Page 1 of 2 DEQ-05-LQ-091A

May2007



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY UNDERGROUND STORAGE TANK PROGRAM

Cost Recovery Agreement

This document serves as an agreement between the undersigned (hereinafter "you") and the Department of Environmental Quality (DEQ) regarding DEQ review and oversight of the investigation and/or cleanup of petroleum (hazardous substances) at the property located at:

Address: 255216 - Beaverton

Address: 11400 Sw Beaverton - Hillsdale Hwy

Portland, OR

USTC No.: 34-07-1495 Vy

DEQ agrees to review environmental documents submitted by you or on your behalf regarding the investigation and/or cleanup of the above-referenced site. Additional details regarding DEQ oversight will be established upon review of the initial site data.

DEQ requires that persons requesting DEQ review and oversight of investigation and cleanup activities agree to the terms of this cost recovery agreement and pay project oversight costs.

DEQ project oversight costs will include direct costs and indirect costs. Direct costs include site-specific expenses and legal costs. Indirect costs are those general management and support costs of the DEQ, including the Land Quality Division (LQ), allocable to DEQ oversight of this agreement and not charged as direct, site-specific costs. Indirect charges are based on a percentage of direct personal services costs. Review and oversight costs shall not include any unreasonable costs or costs not otherwise recoverable by DEQ under ORS 465.255.

DEQ costs are due within thirty (30) days of issuance of the monthly statement, by a check made payable to the "Department of Environmental Quality".

Electing not to enter into this agreement does not release you from any responsibility that you might have for any reporting requirements, investigation and/or cleanup of petroleum (hazardous substances) at the above referenced facility. This does not preclude the DEQ from conducting audits or inspections of all or portions of the investigation and cleanup activities associated with this facility. Enforcement action may be initiated if any violation of DEQ requirements is found.

Either DEQ or you may terminate this agreement by giving 15 days advance written notice to the other. Only those costs incurred or obligated by DEQ prior to the effective date of any termination of the agreement shall be recoverable under this agreement. Termination of this agreement will not affect any other right DEQ may have for recovery of costs under any applicable law.

You will hold DEQ harmless for any claims (including but not limited to claims of property damage or personal injury) arising from DEQ review and/or oversight activities under this agreement.

This agreement is not and shall not be construed to be an admission by you of any liability under ORS 465.255 or any other law or as a waiver by you of any defense to such liability. This agreement is not and shall not be construed to be a waiver, release, or settlement of claims that DEQ may have against you or any other responsible person nor is this agreement a waiver of any enforcement authority that DEQ may have.

The DEQ Tanks Program will be responsible for the review and oversight of the investigation and cleanup activities associated with the property. Please refer all site-specific inquiries to them <u>at the regional office responsible for your site</u>. For locations and phone numbers of the regional offices, please see the UST Regional Office list at http://www.deq.state.or.us/wmc/tank/regoffices.htm.

All inquiries regarding cost recovery and/or invoices should be directed to Dawn Gomez at 503-229-5812.

If the terms of this agreement are acceptable, please have it executed by an authorized officer in the space provided below. In order to more effectively schedule your project, please return this agreement within 30 days of receipt to the regional office responsible for your site.

Accepted and agreed to this 24th day of October , 200	7 14
By: James F. Trotter	- vn
Title: Site Manager	_ `
Dlaces provide the following information as to where the invoices should be cent	

Please provide the following information as to where the invoices should be sent.

Individual Name: Michael D. Noll	
Title: RMR Site Manager	
Company Name: DXT Services LLC, NOU Environme	ntal
Mail Address: 11921 185th Avenue SE	V
Mail Address: 11921 185th Avenue SE City, State, Zip: Snohomish OR 98290	
Phone Number: (360) 794 - 9523	



1. 200



Department of Environmental Quality

Eastern Region-The Dalles Office 400 East Scenic Drive, Suite 307 The Dalles, OR 97058 (541) 298-7255 FAX (541) 298-7330

October 13, 2009

Myron W. Smith Site Manager-Western Region Risk Management & Remediation ConocoPhillips Company 1230 W. Washington St. Ste. 212 Tempe, AZ 85281-1247

RE: No Further Action ConocoPhillips Station #255216 (RM&R 1370) 11400 Southwest Beaverton-Hillsdale Highway, Beaverton, Oregon 97005 DEQ Facility No. 1036, DEQ LUST 34-07-1495 Washington County

Dear Mr. Smith:

The Department of Environmental Quality (Department) has reviewed the *Request for File Closure* letter report submitted by Stantec Consulting Corporation (Stantec) on behalf of ConocoPhillips Company (CP) for the above listed facility. The Department concludes that this site meets the requirements of Oregon Administrative Rules (OAR) 340-122-0205 through 340-122-0360 that govern the remediation of petroleum product contamination from underground storage tanks (USTs). The Department's determination of No Further Action (NFA) is based on the information submitted in the Stantec report, as well as prior reports documenting site investigative and cleanup activities. The activities are summarized as follows:

1) CP engaged ATC Associates, Inc., (ATC) to conduct a due diligence site assessment in preparation of a future real estate transaction. ATC advanced four borings (B-1 through B-4) to depths of 20 feet below ground surface (bgs) around the existing fuel USTs and the dispenser islands. Groundwater was encountered between 4.45 and 6 feet bgs.

Selected field-screened soil samples from each boring were analyzed for gasoline, diesel, heavy oil and EPA Method 8260B volatile organic compounds (VOCs). The soil sample from boring B-3-10 (at 10 feet bgs) showed toluene present at 0.008 milligrams/kilograms (mg/kg). Soil sample results from B-1-10, B-2-10, B-3-10 and B-4-10 did not have any detectable gasoline, diesel or heavy oil. No samples had any detectable VOCs other than toluene in B-3-10, which did not exceed the risk-based concentration (RBC) for any receptor.

The Department NFA of August 9, 2005 approved leaving contaminated soil on the site based on the conditions that existed at that time, provided that any excavated soil would be handled and disposed properly. All 2007 ATC soil results are below any RBC.

2) The groundwater samples from each boring did not have any detectable gasoline, heavy oil or VOCs. The sample from B-2 had 11,000 micrograms/Liter (ug/L) diesel and the other three groundwater samples did not have reportable results at detection limits of 1,000 and 2,500 ug/L. ATC reported a release to the Department on September 12, 2007, based on sample results.

The B-2 diesel concentration exceeds the *Ingestion & Inhalation from Tapwater* exposure pathway RBCs and the *Groundwater in Excavation* exposure pathway RBC. The tapwater exposure pathway was previously determined to be incomplete and site groundwater use is restricted by the Departments' NFA of August 9, 2005 for Leaking Underground Storage Tank release 34-89-0172.

The *Groundwater in Excavation* exposure pathway RBC is 9,700 µg/L. This exposure pathway is potentially complete for the construction and excavation worker receptors. The B-2 11,000 µg/L diesel result is new information that exceeds the highest diesel concentrations found when the Department issued a NFA on August 9, 2005. Boring B-2 is located between the fuel USTs and the dispenser islands. Earlier work showed the presence of diesel in soil and groundwater at concentrations not exceeding the RBCs for this pathway. Boring B-2 was located between two other boring locations (B-1 and B-3) that are respectively up and down gradient of this location. Prior monitoring well locations (MW-3 and MW-2) were also respectively located up and down gradient of this location. Both sets of data indicate a limited extent for the elevated diesel concentration.

This NFA recognizes the Department NFA of August 9, 2005 as written and modifies the 2005 NFA requirements to include the following requirement. Any excavation activity that may encounter the groundwater at or near the B-2 location (see attachment ATC Figure 1) requires implementing the appropriate safety requirements.

3) Stantec concluded that no new release was indicated. The Department concurs with this conclusion. New information, (the elevated diesel concentration in groundwater), was found that required including excavation/construction worker restrictions to the August 9, 2005 NFA.

The Department concludes that this site meets the requirements of Oregon Administrative Rules (OAR) 340-122-0205 through 340 122-0360, which are the regulations governing the cleanup of petroleum releases from USTs, and that No Further Action is required.

Please note that the Department's conclusion that No Further Action is necessary will be voided upon discovery of new or undisclosed facts that indicate the site is not in compliance with OAR 340-122-0205 through 340-122-0360. Furthermore, the conclusion does not apply to any conditions at the site other than the environmental activities specifically addressed in the reports submitted to the Department. Additionally, pursuant to OAR 340-122-360(2), a copy of the reports must be retained until the time of the first transfer of the property, plus ten (10) years.

2) The groundwater samples from each boring did not have any detectable gasoline, heavy oil or VOCs. The sample from B-2 had 11,000 micrograms/Liter (ug/L) diesel and the other three groundwater samples did not have reportable results at detection limits of 1,000 and 2,500 ug/L. ATC reported a release to the Department on September 12, 2007, based on sample results.

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The Department appreciates your efforts to comply with the prescribed cleanup rules for petroleum product releases from underground storage tanks. If you have any questions, please call Sheila Monroe at (541) 298-7255 ext. 229 or O.J. Roman at ext. 225.

Sincerely,

Sheila Monroe

Cleanup Manager

Eastern Region - The Dalles

had Monroe

Sheele Money for DJ. Roman

Cleanup Program

Eastern Region - The Dalles

Cc: Todd J Vanek, Delta Consultants

Justin Dauphinais, Stantec Consulting Corporation

Att: ATC Due diligence Site Assessment Report Figure 1

Enc: 2005 No Further Action Letter

-SOUTHWEST BEAVERTON-HILLSDALE HIGHWAY-CANOPY DISPENSER ISLANDS -ASPHALT ASPHALT **→**^{B-1} FUEL UST FUEL UST COP STATION NO. 255216 KIOSK APPROXIMATE SITE BOUNDARY LEGEND + SOIL BORING LOCATION SCALE, FT NOTE: LOCATIONS AND SCALE ARE APPROXIMATE PROJECT NUMBER: 34.75118.3003 DATE: 8/28/07 **FIGURE** SITE PLAN DRAWN BY: BK APPROVED BY: 9185 S. Farmer Ave., Ste. #107 Tempe, Arizona 85284-2912 CONOCOPHILLIPS SITE NO. 255216 11400 SOUTHWEST BEAVERTON-HILLSDALE HIGHWAY Ph: (480) 894-2056 *** Fax: (480) 894-2497

BEAVERTON, OREGON



Depa. ment of Environmental Quality Northwest Region Portland Office

2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263 FAX (503) 229-6945 TTY (503) 229-5471

August 9, 2005

MARTIN CRAMER CONOCOPHILLIPS PETROLEUM COMPANY 5528 NW DOANE AVE PORTLAND OR 97210

Re: Unocal 5216

File No. 34-89-0172 Facility No. 1036

Dear Mr. Cramer:

The Department of Environmental Quality (DEQ) has completed its review of the information submitted to date concerning a release of petroleum hydrocarbons and the subsequent site investigation conducted at the ConocoPhillips No. 5216 located at 11400 SW Beaverton-Hillsdale Highway in Beaverton, Oregon. DEQ has determined that the cleanup appears to have met the requirements of Oregon Administrative Rules (OAR) 340-122-205 through 340-122-360 for commercial use of the site and that no further action is required at this time.

This determination is a result of our evaluation and judgment based on the regulations and facts as we now understand them:

- 1. The site is an active 76-branded service station with a station building, two dispenser islands beneath a canopy, and two 12,000-gallon gasoline underground storage tanks (USTs) to the west of the station building. Soils at the site generally consist of gravel fill to approximately one foot below ground surface (bgs). Stiff silt with trace sand is encountered below the gravel layer to a depth of 21.5 feet bgs. The station is located approximately 700 feet east of an unnamed tributary to Beaverton Creek, which is located within approximately 0.5 mile northwest of the site.
- 2. Land use in the vicinity includes commercial, a variety of retail and wholesale business, minor manufacturing and existing dwellings that could include residential use. There are currently no residences in the vicinity of the site. The City of Beaverton supplies water to the site and adjacent properties. A search of well logs on file at the Oregon Water Resources Department identified 17 locatable domestic water wells within 0.5 mile radius of the site. The nearest locatable domestic water well located down gradient from the site is approximately 0.75 mile west of the site.
- 3. Prior to 1963, a Unocal-branded petroleum distribution facility was reportedly located on the site and the property east of the site. The former facility consisting of a warehouse, product lines, a loading area, and four above ground petroleum storage tanks was dismantled in 1963 to allow for the widening of State Highway 217 and Beaverton-

Hillsdale Highway. In 1969, the site was developed as Unocal Service Station No. 5216.

- 4. In 1989, the original USTs and associated piping were replaced with two double-walled, fiberglass-coated, steel 12,000-gallon, and one 550-gallon used oil tanks. No holes were observed in the gasoline USTs. A heating oil and a waste oil tank, three hydraulic hoists, and two dispenser islands were also removed during the USTs decommissioning. The protective coating on the heating oil tank was partially intact and moderate corrosion was observed at the hinge line; no holes were observed. The protective coating on the waste oil tank had deteriorated and heavily corroded; holes were observed at the hinge line. Groundwater was present in the gasoline UST excavation and was transferred into a vactruck and transported to an off-site treatment and disposal facility. Petroleum-affected soil and groundwater were observed in the tank cavity. Petroleum hydrocarbons as gasoline (TPH-G) was found at a maximum concentration of 2,900 parts per million (ppm) at the west wall of the excavation. The UST excavation was over-excavated to the north and south, and was limited along the south, east, and west sides due to the presence of structures.
- 5. Approximately 275 cubic yards of petroleum contaminated soil were excavated from the UST cavity and transported to St. Johns Landfill. Petroleum hydrocarbons were not detected in soil samples collected from the former used oil UST excavation. Petroleum hydrocarbons were detected in the vicinity of the hoists and dispenser islands. Approximately 20 cubic yards of petroleum-impacted soil removed from the hoist and dispenser island areas were transported to TPS Technologies Soil Recycling for treatment and final disposal.
- 6. In 1990, four soil borings were drilled and completed as groundwater monitoring wells (MW-1 through MW-4). Groundwater monitoring and sampling activities were initiated in the same year. Groundwater has been generally observed at an approximate depth of over two to five feet bgs with a westerly flow direction.
- 7. During the past four quarters of 2003-04 groundwater monitoring period, concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX) have not been detected above the laboratory method reporting limit (MRLs) in the four groundwater monitoring wells. Methyl tertiary-butyl ether (MTBE) has been detected in wells MW-1 and MW-2 at concentrations ranging from 2.02 to 53.9 parts per billion (ppb). Petroleum hydrocarbons have been detected in wells MW-1 through MW-4 at maximum concentrations ranging from 571 ppb diesel to 1,690 ppb heavy oil. TPH-G has not been detected in any of the wells sampled.
- 8. In 2003, a further site subsurface assessment was conducted to investigate residual soil petroleum contamination from the former UST system and the former hoists inside the station building. 14 borings (B-1 through B-14) were drilled to an approximate depth of 15 feet bgs or until groundwater was encountered. Groundwater was encountered at an approximate depth of five feet bgs during the investigation. In the former hydraulic hoist area, TPH-G was detected at concentrations ranging from 0.194 ppm to 77.2 ppm; TPH-D was detected at concentrations ranging from 34.7 ppm to 1,110 ppm; TPH-O was



- detected at concentrations ranging from 165 ppm to 738 ppm. BTEX, MTBE, and naphthalene were not detected above laboratory MRLs in any of the samples. Isopropylbenzene was detected in sample B-4 at a concentration of 0.311 ppm; and n-propylbenzene was detected in sample B-2 at a concentration of 25.0 ppm.
- 9. In the former gasoline and used oil UST excavation area, TPH-G was detected at concentrations ranging from 0.363 ppm to 13.7 ppm; TPH-D was detected at concentrations ranging from 47.5 ppm to 1,200 ppm; TPH-O was detected at concentrations ranging from 35.7 ppm to 1,050 ppm. Except for a very low concentration of total xylenes in one sample, BTEX and MTBE were not detected above laboratory MRLs in any of the soil samples. Polycyclic aromatic hydrocarbons (PAHs) were detected at concentrations ranging from 0.00316 ppm (naphthalene) to 0.034 ppm (2-methylnaphthalene).
- 10. At the west end of the south dispenser island, TPH-G and TPH-D were detected at concentrations of 0.276 ppm to 47.8 ppm. TPH-O, BTEX, MTBE, and naphthalene were not detected above the laboratory MRLs in any soil samples. PAHs were detected with concentrations ranging from 0.00414 ppm to 0.0261 ppm. Total lead concentrations detected in some soil samples ranged from 7.84 ppm to 18.6 ppm. PCBs and TCLP metals were not detected above laboratory MRLs in any of the two samples submitted for analysis.
- 11. A risk evaluation for the residual petroleum hydrocarbons in soil and groundwater was conducted for the site by Delta Environmental Consultants, Inc. The conceptual site model for the site included soil and groundwater volatilization to outdoor and indoor air, and ingestion-inhalation-dermal exposure of excavation workers to soil and groundwater. No reasonably likely current or future beneficial use of groundwater was identified. Accordingly, the ingestion from groundwater and tap water, inhalation from tap water, and soil leaching to groundwater pathways were deemed to be incomplete. The concentrations of contaminants of potential concern in soil and groundwater were found to be below current DEQ generic risk-based concentrations for the pathways identified in the risk assessment, and do not pose unacceptable risks to human health and the environment.

The no further action determination is subject to the following conditions:

- At such time as land use changes are planned whether by remodeling, replacement or any other manner, soil samples must be collected and analyzed, and a current risk assessment made, to ensure the adequate protection of human health related to the new uses of the property. Results of soil sample collection and analysis, and the risk assessment, must be provided to DEQ for review and approval before the new use of the property occurs.
- No use shall be made of the groundwater at the property, by extraction through wells or by other means, that involves consumption or non-consumptive use of the groundwater. Should groundwater use be proposed, a risk assessment must

be conducted and submitted to DEQ for review and approval prior to the extraction of any groundwater.

The DEQ's determination will not be applicable if new or undisclosed facts show that the cleanup does not comply with the referenced rules. The DEQ's determination also does not apply to any conditions at the site other than the petroleum hydrocarbon release associated with the USTs specifically addressed in the reports.

Please note that pursuant to OAR 340-122-360(2), a copy of your report must be retained for ten (10) years after the first transfer of the property. We recommend that a copy of this information be kept with the permanent property records.

Your efforts to comply with the regulations to ensure that your property has been adequately cleaned up have been appreciated. If you have any questions, please feel free to contact me at (503) 229-5858.

Sincerely,

Bijan N. Pour

Byon N.

UST Cleanup Specialist

Northwest Region Tanks Program

cc: Ruth K Ha

Delta Environmental Consultants, Inc.

7150 SW Hampton Suite 220

Tigard OR 97223

ROMAN Bud

From:

Todd Vanek [TVanek@deltaenv.com]

Sent:

Wednesday, May 20, 2009 12:37 PM

To:

ROMAN Bud

Subject:

COP LUST Site Transition

Attachments:

COP Oregon Site Transition_20090520_BR.pdf

Hello Bud:

Consulting services at the COP sites in the attached file have been transitioned from Stantec to Delta Consultants during April and May 2009. Please CC Delta on all future correspondence for environmental work. My name is Todd Vanek and I will be the PM contact for Delta.

Please let me know if you have any questions or comments.

Todd J. Vanek
Delta Consultants
tvanek@deltaenv.com
4640 SW Macadam Avenue, Suite 110
Portland, Oregon 97239
Direct: 503-863-2104
Mobile: 503-807-0847
USA Toll free: 800.477.7411
www.deltaenv.com

DELTA

Member of Inogen www.inogenet.com

Confidentiality Notice: If you are not the intended recipient of this email, please delete it. Thank you.

Conoco Philips Site Transition Oregon Portfolio

Facility ID	Address	City	USTC#	DEQ Contact	Previous Consultant
255216	11400 SW BEAVERTON HILLDALE HWY	BEAVERTON	34-07-1495	Bud Roman	Stantec
2611022	8715 SW CANYON RD	PORTLAND	34-07-0878	Bud Roman	Stantec
2611036	6303 SW CAPITOL HWY	PORTLAND	26-07-1499	Bud Roman	Stantec
2705453	75 NW 158TH ST	BEAVERTON	34-07-1694	Bud Roman	Stantec
2705455	18222 SE DIVISION ST	GRESHAM	26-08-0010	Bud Roman	Stantec

^{**} Sites transition to Delta Consultants during 2Q09.





Tel: (503) 691-2030 Fax: (503) 692-7074



State of Oregon
Dept. of Environmental Quality
Eastern Region - The Dalles

February 6, 2009

Mr. O. J. Roman Project Manager Oregon Department of Environmental Quality Eastern Region UST/LUST Program 400 E. Scenic Drive Ste.2.307 The Dalles, OR 97058

RE: Request for File Closure

ConocoPhillips Station 255216 (RM&R 1370) 11400 Southwest Beaverton-Hillsdale Highway Beaverton, Oregon 97005 ODEQ Leaking UST File No. 34-07-1495 ODEQ UST Facility ID No. 1036

Dear Mr. Roman:

The purpose of this letter is to present a request for "file closure", on behalf of the ConocoPhillips Company, for the retail petroleum service station located at 11400 Southwest Beaverton-Hillsdale Highway, in Beaverton, Oregon (site).

DUE DILIGENCE PROGRAM

In preparation for a future real estate transaction involving several active retail petroleum stations, a due diligence investigation program was initiated. To be conservative, during the due diligence program, soil samples with photoionization detector (PID) readings over 25 parts per million (ppm) were used as an indicator of a potential release and were reported as such to the Oregon Department of Environmental Quality (ODEQ). Although many of the due diligence projects had existing "No Further Action" (NFA) letters from the ODEQ, further research of documented site conditions was necessary to determine if petroleum impacts discovered during the due diligence program were similar to site conditions from those select areas when the NFA letters were originally issued.

ENVIRONMENTAL HISTORY OF SITE

In August 1989, four underground storage tanks (USTs) were decommissioned by removal. Groundwater and petroleum-impacted soil were encountered during excavation activities. Samples of groundwater and soil from the excavation were analyzed and confirmed concentrations of total petroleum hydrocarbons (TPHs). Groundwater samples analyzed also indicated benzene concentrations (17 micrograms per liter [µg/L]). Approximately 275 cubic yards of soil were transported to a landfill for disposal. New fiberglass petroleum USTs and a used-oil tank were installed upon decommissioning of the old USTs.

In August 1990, four borings were advanced for sample collection. Groundwater was encountered, and the borings were converted to monitoring wells. Soil and groundwater samples were collected from each boring and subsequently analyzed. TPH concentrations were detected in the soil samples, along with arsenic and barium (both very low). Groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) with no detections indicated.

Stantec

February 6, 2009 Mr. O. J. Roman Page 2 of 3

Reference: RM&R #1370 Request for File Closure

In 1991, GeoEngineers began groundwater monitoring and submitted quarterly reports. GeoEngineers continued monitoring the site's groundwater until 1998. When the site's ownership changed, Pacific Environmental Group provided oversight for the decommissioning of the used oil UST, four hydraulic hoists, and two pump islands. Petroleum-impacted soil was encountered and soil samples were collected and analyzed. Groundwater was encountered but in insufficient quantities to purge and sample. Total petroleum as gasoline (TPH-G), as diesel (TPH-D), and as heavy oil (TPH-O) were detected in samples taken from hydraulic hoist excavation. Groundwater monitoring continued with no detection of BTEX. Methyl tert-butyl ether (MTBE) was detected in 2000 and continued to be detected into 2003 in decreasing concentrations each quarter.

In 2004, concentrations did not exceed ODEQ's generic risk-based concentrations (RBCs). Delta Environmental Consultants, Inc., requested a NFA determination for the site. The ODEQ issued a NFA letter, dated August 9, 2005, and closed the leaking UST site file. Groundwater monitoring was suspended, and well abandonment of the site's monitoring wells (MW-1, MW-2, MW-3, and MW-4) was monitored by Delta in December 2005 and reported in February 2006.

DUE DILIGENCE FINDINGS

A due diligence site assessment was performed on July 20, 2007, by ATC Associates Inc. (ATC). Based on PID readings and detected hydrocarbon concentrations in soil and groundwater, the site was reported as a release to the ODEQ and given file number 34-07-1495.

The assessment consisted of the advancement of four borings (B-1, B-2, B-3, and B-4) to depths of 20 feet below ground surface (bgs) in the vicinity of the existing fuel USTs and dispensers using GeoProbe drilling equipment. In boring B-4, groundwater was encountered between 10 and 15 feet bgs during drilling activities. After drilling activities, groundwater entered borings B-1, B-2, and B-3. Depth to groundwater measurements were collected and reported as 4.45 feet bgs, 5.80 feet bgs, and 6 feet bgs in borings B-1, B-2, and B-3, respectively. An exact depth to groundwater measurement was not collected from boring B-4. Soil and groundwater samples were collected from each boring and submitted to Lancaster Laboratories for analysis for TPH-G per Northwest Method NWTPH-Gx; TPH-D and TPH-O per northwest Method NWTPH-Dx with acid/silica gel cleanup; and fuel oxygenates and halogenated volatile organic compounds (HVOCs) including BTEX per Environmental Protection Agency (EPA) Method 8260B.

Subsurface soil underlying the site was reported to generally consist of silty clay and clayey sand from the ground surface to approximately 20 feet bgs, the maximum extent of exploration. PID readings ranged from 0.0 to 6.2 ppm. Soil samples analyzed indicated toluene at a concentration of 0.008 milligrams per kilogram (mg/kg) in boring B-3, collected at 10 feet bgs. Groundwater samples analyzed indicated MTBE at concentrations of 6 μ g/L and 10 μ g/L in samples collected from borings B-3 and B-4, respectively. TPH-D was detected at a concentration of 11,000 μ g/L in the groundwater sample collected from boring B-2.

The following analytes were detected at greater concentrations than the laboratory method detection limit (MDL), but less than the limit of quantitation (LOQ). MDL is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. LOQ is the smallest amount of analyte which can be reliably determined using a specific test. These detection concentrations are followed by a letter "J", indicating that the values are estimated, (between the MDL and the LOQ). Soil samples analyzed indicated detections of methylene chloride at concentrations of 0.004 mg/kg (J), 0.005 mg/kg (J), and 0.005 mg/kg (J) in borings B-1 (collected at 10 feet bgs), B-2 (collected at 10 feet bgs), and B-4 (collected at 10 feet bgs), respectively. Toluene was detected at a concentration of 0.003 mg/kg (J) in boring B-4, collected at 10 feet bgs. Groundwater samples analyzed indicated a detection of TPH-O at a concentration of 1,600 μ g/L (J) in the sample collected from B-2. TPH-G was detected at a concentration of 130 μ g/L (J) and 120 μ g/L (J) in samples collected from borings B-2 and B-3, respectively.

Stantec

February 6, 2009 Mr. O. J. Roman Page 3 of 3

Reference: RM&R #1370 Request for File Closure

Meta-xylene and para-xylene (m+p xylene) were detected at concentrations of 2 µg/L in the sample collected from boring B-2.

No other analytes were detected in the remaining soil or groundwater samples submitted for analysis.

The Due Diligence Report, produced by ATC, is included as Attachment 1.

REQUEST FOR FILE CLOSURE

Stantec performed a search of the zoning and planning maps for the site and surrounding properties on the Washington County website. The zoning map (Attachment 2) indicated that the site is within city limits of Beaverton and is zoned "Multiple Use" "Regional Center East" (RC-E). The City of Beaverton Public Works Department representative confirmed that all the properties in the RC-E zoning area are on municipal water. A search of the Oregon Water Resources Department web page did not reveal any water wells within a quarter-mile radius of the site.

Based on the site history and recent analytical results, Stantec, on behalf of ConocoPhillips, requests file closure of ODEQ File No. 34-07-1495.

Your immediate attention to this matter would be appreciated. If you have any questions, please contact Justin Dauphinais at 503-691-2030.

Sincerely.

Stantec Consulting Corporation

Prepared By:

Janet Southwick

Staff Engineer

Approved By:

Justin Dauphinais

Geologic Project Specialist

Approved by:

Mark Trewartha, R.G. Senior Hydrogeologist

JS/JD/MT:ald

Attachments:

List of References

ATC Due Diligence Report City of Beaverton Zoning Map

GEOLOGIST

MARK A. TREWART



LIST OF REFERENCES

The following is a list of reports used to compile environmental history for Stantec's Request for File Closure on behalf of the ConocoPhillips Company for station 255216 (RM&R 1370) located at 11400 Southwest Beaverton-Hillsdale Highway, Beaverton, Oregon.

ATC Associates Inc., Due Diligence Report

GeoEngineers. August 28, 1990. Report of Geoenvironmental Services Underground Storage Tank Removal Monitoring.

GeoEngineers. August 2, 1991. Report of Geoenvironmental Services Underground Storage Tank Removal Monitoring.

GeoEngineers. April 21, 1992. Results of Quarterly Ground Water Monitoring.

Pacific Environmental Group, Inc. September 10, 1998. *Underground Storage Tank Decommissioning.*

Delta Environmental Consultants, Inc. September 27, 2004. Request for No Further Action Determination.

ODEQ. August 9, 2005. No Further Action Letter.



ATTACHMENT 1 ATC DUE DILIGENCE REPORT

Request for File Closure ConocoPhillips Station 255216 (RM&R No. 1370) 11400 Southwest Beaverton-Hillsdale Highway Beaverton, Oregon February 6, 2009



9185 South Farmer Avenue, Suite 107 Tempe, Arizona 85284 www.atcassociates.com 480.894.2056 fax 480.894.2497

September 13, 2007

Mr. Max Boone ConocoPhillips Company 1230 W. Washington St., Suite 212 Tempe, AZ 85281

RE: Due Diligence Site Assessment Report ConocoPhillips Site No. 255216 11400 Southwest Beaverton-Hillsdale Highway Beaverton, Oregon ATC Project No. 34.75118.3003

Dear Mr. Boone:

ATC Associates Inc. (ATC) on behalf of ConocoPhillips Company (ConocoPhillips) presents the results of a Due Diligence Site Assessment conducted at the above-referenced site. The purpose of the investigation was to generate a baseline assessment of property conditions at the time of property transfer. The data reported herein were collected on behalf of ConocoPhillips, in general accordance with the Site-Specific Scope of Work (SOW) prepared by Shaw Environmental & Infrastructure, Inc. (Shaw) dated May 23, 2007. The data reported herein were not requested or required by a regulatory agency.

Activities included in the SOW performed are outlined below:

- Preparation of a site specific Health and Safety Plan (HASP);
- Securing permits, if applicable, from the local permitting agency to advance the borings;
- Marking soil boring locations, notification to Oregon's One-Call center, and contracting a private utility locating service to locate any identifiable underground utilities in the vicinity of the proposed boring locations;
- Air-knifing borings to five feet below ground surface (bgs) to a diameter at least one inch greater than that of the drilling device;
- Advancement of four exploratory soil borings to total depths of 20 feet bgs;
- Collection of soil samples at approximate five-foot intervals for purposes of logging subsurface conditions, field detection of organic vapors using a photoionization detector (PID), and potential laboratory analysis;
- Collection of a groundwater sample for laboratory analysis from each boring;
- Waste profiling and disposal coordination (still underway); and
- Preparation of a report summarizing due diligence assessment activities.

ConocoPhillips Site No. 255216 September 13, 2007 Page 2

SITE DESCRIPTION

The site is an active service station located at 11400 Southwest Beaverton-Hillsdale Highway in Beaverton, Oregon. The site's current underground storage tank (UST) system configuration includes two fuel USTs and two dispenser islands. Limited background information is included in the SOW prepared by Shaw (Appendix A, attached).

BASELINE SITE ASSESSMENT

Field Activities

On July 20, 2007, ATC personnel observed the advancement of four soil borings (B-1, B-2, B-3 and B-4) in the vicinity of the existing fuel USTs and dispensers using geoprobe drilling equipment. Approximate boring locations are shown on attached Figure 1, Site Plan. Each borings was advanced to a depth of 20 feet bgs. Soil samples were collected at approximate five-foot intervals for lithological description, field screening using a PID, and for possible laboratory analysis. Depth to groundwater measurements indicated groundwater had entered boring B-1 to a depth of 4.45 feet bgs, boring B-2 to a depth of 5.80 feet bgs and boring B-3 to a depth of six feet bgs. Groundwater in boring B-4 was encountered between 10 and 15 feet bgs during drilling activities; an exact depth to groundwater measurement was not collected from this boring after drilling was complete. A groundwater sample was collected from each boring once total depth was reached.

Upon collecting a soil sample at each depth interval, the soil was visually examined and classified in accordance with the Unified Soil Classification System (USCS). Field PID readings were also used to monitor the soils for volatile organic compound (VOC) vapors. A description of the lithology encountered and PID readings obtained are presented on the boring logs included as Appendix B, attached.

Upon completion of drilling, the borings were backfilled to approximately one foot bgs with bentonite grout. Once the level of the sealing mixture had reached a level of one foot bgs, concrete was emplaced in the borehole, finished flush with the existing surface grade and dyed if necessary to match surrounding conditions.

Laboratory Analytical Procedures

Soil and groundwater samples collected during field activities were shipped under chain-of-custody (COC) protocol to Lancaster Laboratories, Inc. (Lancaster) in Lancaster, Pennsylvania. Lancaster is certified through the Oregon Laboratory Accreditation Program. Groundwater samples and select soil samples collected from the borings were analyzed for fuel oxygenates and halogenated volatile organic compounds (HVOC; including benzene, toluene, ethylbenzene and total xylenes [BTEX]) using Environmental Protection Agency (EPA) Method 8260B. Each sample selected was also analyzed for gasoline-, diesel- and oil- range petroleum hydrocarbons (TPH-g [C_8 to C_{12}], TPH-d [C_{12} to C_{24}] and TPH-o [$C_{>24}$ to C_{40}], respectively) using Northwest Total Petroleum Hydrocarbons (NWTPH), Modified method. Laboratory analytical data for soil

ConocoPhillips Site No. 255216 September 13, 2007 Page 3

and groundwater samples analyzed as part of this assessment are summarized in attached Table 1, Summary of Soil Analytical Data and Table 2, Summary of Groundwater Analytical Data, respectively. The laboratory analytical report and COC document are provided as Appendix C, attached.

Waste Disposal

Investigation derived waste (IDW) generated during the field operations has been temporarily stored onsite pending characterization and disposal. A copy of the waste manifest(s) will be provided under separate cover once the IDW has been profiled and transported to an appropriate disposal facility.

FINDINGS

The lithology underlying the site generally consists of silty clay and clayey sand from the ground surface to approximately 20 feet bgs, the maximum extent of exploration. PID readings ranged from 1.0 to 6.2 parts per million (ppm). Refer to the edited boring logs in Appendix B for a summary of field observations noted during drilling activities.

As shown in Table 1, laboratory analytical results for the soil samples selected for analysis indicate the following:

- Toluene was detected at a concentration of 0.008 milligrams per kilogram (mg/kg) in the soil sample collected at approximately 10 feet bgs from boring B-3 (B-3-10).
- No other analytes were detected in excess of their respective laboratory method Limit of Quantitation (LOQ) in the soil samples submitted for analysis.

As shown in Table 2, laboratory analytical results for the groundwater samples collected from each boring indicate the following:

- Methyl tert butyl ether was detected at a concentration of 6 micrograms per liter (μg/L) in the groundwater sample collected from boring B-3 (B-3) and at a concentration of 10 μg/L in the groundwater sample collected from boring B-4 (B-4).
- TPH-d was detected at a concentration of 11,000 μ g/L in the groundwater sample collected from boring B-2 (B-2).
- No other analytes were detected in excess of their respective laboratory method LOQ in the groundwater samples submitted for analysis.

LIMITATIONS

This report was prepared in general accordance with the Shaw SOW dated May 23, 2007 and with generally accepted professional environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of ConocoPhillips for the express purpose of generating a baseline assessment of property conditions. Any re-use of this report for a different purpose shall be at the user's sole risk without liability to ATC. To the extent that this report is based on information provided to ATC

ConocoPhillips Site No. 255216 September 13, 2007 Page 4

by third parties, ATC may have made efforts to verify this third party information, however ATC cannot guarantee the completeness or accuracy of this information. The data collected during this investigation and summarized in this report represent site conditions at the time field activities were conducted. No other warranties, expressed or implied are made by ATC.

Prepared by:

Reviewed by:

Name: Keli Vandegrift Title: Project Manager

Name: Girard E. Morgan, R.G. Title: Principal Geologist

The data presented by ATC in this document have been prepared under the supervision of and reviewed by the Licensed Professional whose signature appears below:

Licensed Approver:

GEOLOGIST

Girard E. Morgan, Oregon Registration No. G1410 Principal Geologist

Attachments:

Table 1 – Summary of Soil Analytical Data

Table 2 - Summary of Groundwater Analytical Data

Figure 1 - Site Plan

Appendix A – Scope of Work

Appendix B - Boring Logs

Appendix C – Laboratory Analytical Report and Chain-of-Custody Document

TABLES

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL DATA ConocoPhillips Site No. 255216

11400 Southwest Beaverton-Hillsdale Highway, Beaverton, Oregon

ample ID	Sample	Benzene (μg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	Other HVOC * (µg/L)	Oxygenates * (µg/L)	TPH-g (μg/L)	TPH-d (μg/L)	TPH-0 (µg/L)
	Date	EPA 8260B							TPH Modif	ied
B-1	07/20/07	<5	<5	<5	<10	All analytes ND.	All analytes ND.	<250	<1,000	<2,000
B-2	07/20/07	<5	<5	<5	<10	All analytes ND.	All analytes ND.	<250	11,000	<2,000
B-3	07/20/07	<5	<5	<5	<10	All analytes ND.	Methyl tert butyl ether (6)	<250	<2,500	<5,000
B-4	07/20/07	<5	<5	<5	<10	All analytes ND.	Methyl tert butyl ether (10)	<250	<2,500	<5,000
	HVOC * TPH-g TPH-d TPH-o	- Only compo - Gasoline ran - Diesel range	ounds detected nge organic hy e organic hydr	at a concentration of drocarbons (C_8 - C_{12} -ocarbons (C_{12} - C_{24}).		ective laboratory method	d Limit of Quantitation (LOQ) are not	ed.		

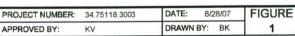
TABLE 1 SUMMARY OF SOIL ANALYTICAL DATA ConocoPhillips Site No. 255216 11400 Southwest Beaverton-Hillsdale Highway, Beaverton, Oregon

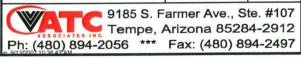
Sample ID	Sample Depth	Sample	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Other HVOC * (mg/kg)	Oxygenates * (mg/kg)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-0 (mg/kg)	
	(feet bgs)	Date EPA 8260B							NWTPH Modified			
B-1-10	10	07/20/07	< 0.007	< 0.007	< 0.007	< 0.014	All analytes ND.	All analytes ND.	<6.5	<9.1	<39	
B-2-10	10	07/20/07	< 0.006	<0.006	< 0.006	< 0.012	All analytes ND.	All analytes ND.	<6.5	<9.1	<39	
B-3-10	10	07/20/07	< 0.006	0.008	< 0.006	< 0.012	All analytes ND.	All analytes ND.	<6.3	<8.9	<38	
B-4-10	10	07/20/07	< 0.006	< 0.006	< 0.006	< 0.012	All analytes ND.	All analytes ND.	<6.3	<8.8	<38	
	mg/kg HVOC	Unlogonoted	volatile orga	nic compound	S.							
	* TPH-g TPH-d TPH-o EPA NWTPH <0.007	- Only compo - Gasoline ran - Diesel range - Oil range or - Environment - Northwest T	unds detected age organic hy organic hydroganic hydroca tal Protection otal Petroleur	drocarbons (Cocarbons	⁶ ₈ -C ₁₂). -C ₂₄).		y method Limit of Qua	ntitation (LOQ) are note	ed.			

FIGURE

-SOUTHWEST BEAVERTON—HILLSDALE HIGHWAY— CANOPY DISPENSER ISLANDS -**ASPHALT** ASPHALT +^{B-1} FUEL UST UST COP STATION NO. 255216 KIOSK -APPROXIMATE SITE BOUNDARY LEGEND + SOIL BORING LOCATION 20 40 SCALE, FT NOTE: LOCATIONS AND SCALE ARE APPROXIMATE DATE: 8/28/07 PROJECT NUMBER: 34.75118.3003 SITE PLAN DRAWN BY: BK APPROVED BY:

CONOCOPHILLIPS SITE NO. 255216 11400 SOUTHWEST BEAVERTON-HILLSDALE HIGHWAY BEAVERTON, OREGON





APPENDIX A
SCOPE OF WORK

PROPOSED DIVESTITURE BASELINE PHASE II ASSESSMENT CONVERGED CONTRACTOR - SCOPE OF WORK

Site:

255216

Address:

11400 SW Beaverton-Hillsdale Highway near SW Griffith Drive

Beaverton, OR

SITE SUMMARY

Former Owner: Unocal

Site is equipped with two 12,000-gallon USTs and two product dispenser islands under a common canopy. Site investigation and groundwater monitoring were performed between 1990 and 2004. Depth to water in the second quarter of 2004 was between 2 and 5 feet below ground surface (bgs); groundwater flow direction was to the west. The Oregon Department of Environmental Quality issued a "No Further Action" letter in August 2005; the four groundwater monitoring wells at the site were subsequently abandoned in December 2005. Current depth to water and groundwater flow direction are not available.

Scope of Work to be performed at the site includes (see attached Figure):

- 2 borings (B-1, B-2) near the fuel USTs to maximum total depth of about 35 feet
- 2 borings (B-3, B-4) near product islands to maximum total depth of about 25 feet

If groundwater is encountered in any of the borings, the boring shall be extended a minimum of five feet into the saturated zone and a groundwater grab sample collected. The boring shall then be terminated at that depth.

Since groundwater at this site is likely to be encountered at a relatively shallow depth (e.g., 2 to 5 feet bgs in 2004), Contractor should plan on limited soil sampling, grab groundwater sampling, and limited total depth of borings. Contractor may elect to use alternative sampling methods (e.g., air knifing to the total depth of the borings) to complete the site investigation, as appropriate.

Contractor shall exercise added caution when performing boring B-2 between the fuel USTs and product dispenser islands.

PRE-DRILLING ACTIVITIES

- > After receiving this Scope of Work, develop requisition for submittal into ENFOS following procedure provided by COP.
- ➤ Identify, obtain, and prepare all necessary and relevant permits, work scope summaries, appropriate work plans, etc., in accordance with county and other specific local requirements. Oregon Department of Environmental Quality generally does not require the Contractor to submit work plans or obtain permits for exploratory borings or temporary wells. Drillers are required to submit completed borings logs to the State. For verification of compliance with state and local regulations, RM&R Area Manager (AM) will need confirmation of, or copies of required boring completion reports.
- > Prepare and review site specific safety plan (Program HASP and JSA) with Phase II field

team.

- Proposed changes to scope will be communicated to Shaw Consultant who will immediately notify the AM if such scope changes materially impact potential safety concern. For example, all bore hole locations will be cleared per RM&R process and that any and all departures form this protocol will have to be reviewed and approved by the AM.
- Schedule laboratory and obtain proper sample containers. Laboratory used must be COP converged laboratory.
- > Shaw Consultant will be coordinating scheduling with Contractor and stakeholders per the "stakeholder engagement process". Prior to mobilization, Contractor must confirm date and time of site field activities with Shaw Consultant.
- > Provide notification to all individuals involved, laboratory, regulatory and/or permitting agencies.

FIELD ACTIVITIES

- > All field work shall be conducted according to RM&R processes and Health and Safety protocols.
- > Mark the proposed boring locations and locate underground utilities where necessary using "dig alert".
- > Conduct all fieldwork in accordance with the site-specific health and safety plan prepared for this project.
- > Prior to drilling, clear the boring locations for underground utilities by using an air knife/vacuum to a depth of five feet below ground surface (bgs) and one inch greater than the diameter of the mechanized equipment that will be used downhole.
- Install soil borings and collect soil samples as proposed on attached Table and Figure. Choice of drilling method will give a priority to the minimization of waste. In addition, drilling methods should be appropriate for the site's geology so that "refusal", requiring re-mobilization, does not occur. Collect soil samples every five feet and screen with an Organic Vapor Meter (OVM). Submit the sample with the highest OVM reading and the sample from the terminal depth of each boring for lab analyses (see Sampling Analysis Table). If all samples from a boring show OVM readings of less than 25 ppmv, collect a soil sample just above saturated zone (capillary fringe), or at the maximum depth of the boring if groundwater is not encountered, for laboratory analyses.
- ➤ If suspected release is encountered, Contractor shall notify AM immediately before any required notification to state and local regulators and to discuss any possible changes to the scope of work. Myron Smith, AM, 602-645-2505 (office), 602-432-1578 (cell).
- If groundwater is encountered prior to the total depth in the borings, the boring will be extended a minimum of five feet into the saturated zone and a groundwater grab sample will be collected and submitted for laboratory analyses as described on Page 2 and 3 of the General Scope of Work document.
- ➤ If respective State allows, dispose of investigative derived waste (IDW) on site (e.g. ground-spreading decon water). Otherwise store IDW, temporarily on-site in properly sealed and labeled, DOT-approved drums pending analytical results. Contractor shall coordinate with store manager for an appropriate location to store the drums.

- Arrange for profiling of drum contents and removal from the Site for disposal in accordance with applicable regulations and within 45 days of drilling per RM&R waste authorization process.
- Inspect site to ensure proper closure, security, etc., of wells, borings, and other site disruption issues and obtain concurrence from site personnel. The Contractor is responsible for ensuring the site is left in a clean and neat condition.
- These investigations will be conducted at sites which are active commercial operations. The Contractor is responsible for ensuring that the investigation is conducted in a manner such that it causes as little disruption as possible to the business being conducted on the site.
- > Contractor will enter near misses and incidents into Impact.

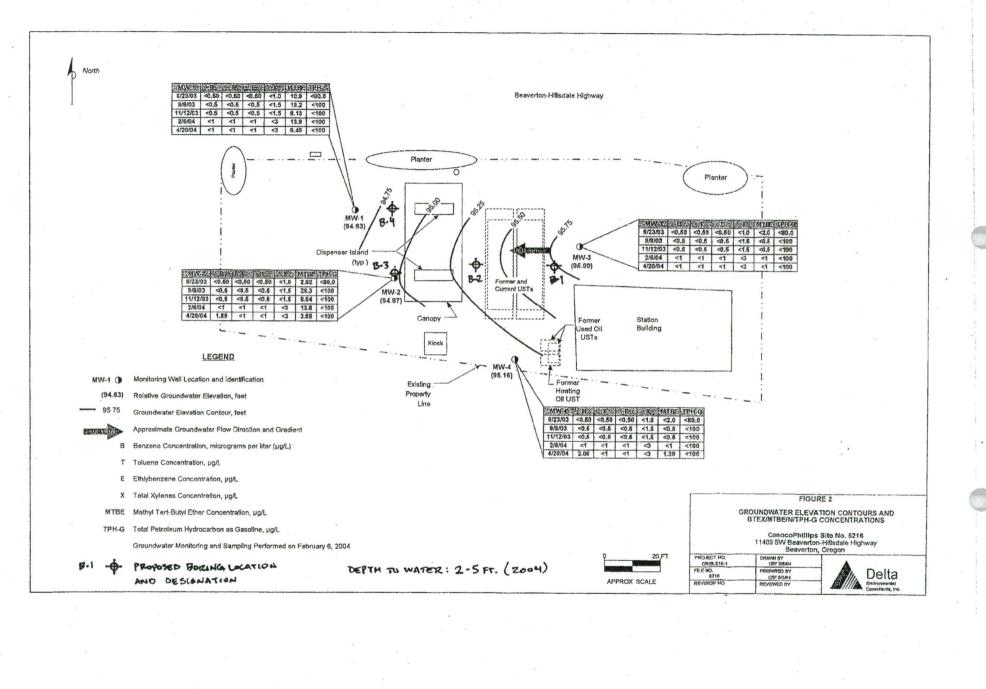
POST-DRILLING ACTIVITIES

- ➤ Complete due diligence report in format as provided by ConocoPhillips (COP). Complete any required agency reports. Contractor shall deliver report and agency reports in electronic format to Shaw Consultant for review and upload to COP database.
- ▶ Upon receiving sample results higher than detection levels, provide immediate notification to AM prior to submitting due diligence report to discuss possible notification to state and local regulators. Myron Smith, AM, 602-645-2505 (office), 602-432-1578 (cell).

ConocoPhillips Marketing Divestiture 2007 Phase II Due Diligence

Sampling Analysis Table

	Laboratory Analytical Parameters & Methods for Soil and Groundwater									
Sample Location	BTEX	TPH-g	Oxygenates	Ethanol	HVOC's	TPH-t	TPH-d	ТРН-о	SVOCs	CAM Metals
	(8260B) (8015M)							(8270)	(6010B)	
Underground Fuel Storage Tank Complex (B-1, B-2) & Dispenser Islands (B-3, B-4)	X	X	X	X	Х	2	X	F		
						٠.				



APPENDIX B
BORING LOGS

М	AJOR DIVISIO	NS	GROU SYMBO		YPICAL NAMES		Undisturbed	Sample		Auger Cuttin	gs
		CLEAN	G G	Well graded mixtures, litt	gravels, gravel - sand le or no fines.	X	Split Spoon	Sample	<i>\$</i>	Bulk Sample	18
	GRAVELS (More than 50% of coarse fraction is LARGER than the No. 4 sieve size)	GRAVELS (Little or no fine		Poorly grade mixtures, litt	d gravels or grave - sand le or no fines.		Rock Core			Modified Cal	ifornia Ring
COARSE GRAINED SOILS		n the GRAVELS		A Silty gravels,	gravel - sand - silt mixtures.		Dilatometer		^^^	Pressure Meter	
		(Appreciable amount of fine	s) G	Clayey grave mixtures.	ls, gravel - sand - clay		Packer		0	No Recovery	
(More than 50% of material is LARGER than	g 4.VTDg	CLEAN SANDS	sv	Well graded or no fines.	sands, gravelly sands, little	Ā	Water Table drilling	at time of	V	Water Table	after 24 hours
No. 200 sieve size)	SANDS (More than 50% of coarse fraction is		es) S]	Poorly grade little or no fir	d sands or gravelly sands, nes.						
	SMALLER than the No. 4 Sieve Size)		SM	I Silty sands, s	and - silt mixtures						
		(Appreciable amount of fines			, sand - clay mixtures.						
	SILTS AND CLAYS		M	flour, silty of silts and with	s and very fine sands, rock clayey fine sands or clayey slight plasticity.		W	Correlation of Pen with Relative Densi		and Consisten	cy
			CI	Inorganic lav	Inorganic lays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.			& GRAVEL		SILT &	
FINE	(Liquid limit)	(Liquid limit LESS than 50)		silty clays, le				Relative Density	N		Consistency
GRAINED			OI	Organic silts	and organic silty clays of		0 - 4	Very Loose		0 - 1	Very Soft
SOILS More than 50% of				low prasticity		_	5 - 10	Loose		2 - 4	Soft
material is			M		s, micaceous or s fine sandy or silty soils,	_	11 - 30	Medium Dense		5 - 8	Medium Stit
SMALLER than]]]]	elastic silts.		_	31 - 50	Dense		9 - 15	Stiff
No. 200 sieve size)	SILTS AN	D CLAYS EATER than 50)	CI	I Inorganic clay	ys of high plasticity, fat	-	Over 50	Very Dense		16 - 30 Over 31	Very Stiff Hard
	(Liquid milit OK	LATER WAIT 30)	OI	Oreania alam	s of medium to high	\dagger				Over 31	riaru
HIGH	LY ORGANIC S	SOILS	½ ½ P	1	τ highly organic soils.						
BOUNDARY C	CLASSIFICATIO			racteristics of up symbols.	two groups are designated	1 by					
QII T	OD CL AV	SA	ND	GRAVE	L CIII D II		KEY	TO SYN	M	BOLS	AND
SILI	OR CLAY	Fine	Medium Coa	se Fine Co	Cobbles Boulders		1	DESCRI	D	TIONS	2

Medium Coarse

U.S. STANDARD SIEVE SIZE

No.10 No.4

Fine

No.200

No.40

Reference: The Unified Soil Classification System, Corps of Engineers, U.S. Army Technical Memorandum No. 3-357, Vol. 1, March, 1953 (Revised April, 1960)

Coarse

Fine

DESCRIPTIONS



9185 South Farmer Avenue, Suite105 Tempe, Arizona 85284 Phone: 480-894-2056 Fax: 480-894-2497

Client ConocoPhillips Co	mpany			Drill Contractor Cascade Drilling Inc.	LOG OF E	SHEET	
Project Name ConocoPh	illips Site	No. 25	5216	Drill Method Geoprobe	Elevation (ft amsl)		
Number 34.75118.3003				Drilling Started Ended	Total Depth 20.0		
Location _11400 SW Beav	verton-Hil	Isdale	Hwy.	Logged By Kevin Miller	Depth To Water	AD 4	.5
DEPTH SAMPLE 5/8 NO. 19	PID (ppm)	nscs	ГІТНОГОВУ	DESCRIPTION			DEPTH FEET
5 — CT B-1-5	1.0	CL ML		SILTY CLAY. 75% clay, 25% silt. Gray to brown. Medium pla	sticity. Damp.		- - - - 5
10 — CT B-1-10	1.2			CLAYEY SAND. 70% sand, 30% clay. Very fine grained. Yell	ow to brown. Damp.		- 10 -
15 — CT B-1-15	1.1	SC					- - 15 -
20 — CT B-1-20	2.0			Gray to brown. Moist. Bottom of hole at 20 feet			- - 20 -
				Pomarks: *Requeston OR Groundwater e			



9185 S. Farmer Ave., Ste 107 Tempe, Arizona 85284 Phone: 480.894.2056 Fax: 480.894.2497

See key sheet for symbols and abbreviations used above.

LOG A EWNN05 255216 BORING LOGS.GPJ LOG A EWNN05.GDT 9/13/07

Client	ConocoPhi	Ilips Con	npany			Drill Contractor Cascade Drilling Inc.	LOG OF BOF	RING B-2 SHEET 1 OF 1
Project	t Name _Cor	nocoPhil	llips Site	No. 2	55216	Drill Method Geoprobe	Elevation (ft amsl)	
Numbe	er 34.75118	8.3003				Drilling Started Ended	Total Depth _20.0	
Locatio	on 11400 S	W Beav	erton-Hi	llsdale	Hwy.	* Logged By Kevin Miller	Depth To Water	AD 5.8
DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	nscs	LITHOLOGY	DESCRIPTION	± '	DEPTH
5 —	CT B-2-5		5.6	CL ML		SILTY CLAY. 80% clay, 20% silt. Gray to brown. High plasti	icity. Damp.	5
10 —	CT B-2-10		6.2			CLAYEY SAND. 75% sand, 25% clay. Very fine grained. Yel	llow brown. Moist.	- 10 - 10
15 —	CT B-2-15		0.0	SC		Lithology too saturated to collect sample or PID.		- 15 - - -
20 —	CT B-2-20		0.0		7,7,7,	Bottom of hole at 20 feet		20
20 —								-
	ASSOCIA	T C		Temp	e, Ariz e: 480	Remarks: *Beaverton, OR. Groundwater e *Ave., Ste 107 ona 85284 .894.2056 .894.2497	entered boring to 5.80' bgs after	drilling.
						See key sheet for symbols and abbreviations us	sed above.	



Project	ConocoPhi t Name Cor er 34.75118 on 11400 S	nocoPh 8.3003	illips Site			Drill Method Geoprobe Elevation (ft amsl) Drilling Started 7/20/07 Ended 7/20/07 Total Depth 20.0	T 1 OF 1
DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	nscs	LITHOLOGY	DESCRIPTION	DEPTH
5 —	CT B-3-5		4.1	CL ML		SILTY CLAY. 80% clay, 20% silt. Gray to brown. Moderate to high plasticity. Damp.	- - - - 5
10 —	CT B-3-10		2.4			CLAYEY SAND. 70% sand, 30% clay. Very fine grained. Light brown. Damp.	- - 10 -
15 —	CT B-3-15	. 1	1.5	SC		Wet.	- - 15 -
20 —	CT B-3-20		2.2			Moist. Bottom of hole at 20 feet	20
-			7				-
	ASSOCIA	TES I		Temp Phon	e, Ariz e: 480	Remarks: *Beaverton, OR. Groundwater entered boring to 6' bgs after drilling. r Ave., Ste 107 tona 85284 0.894.2056 894.2497 See key sheet for symbols and abbreviations used above.	



Client	ConocoPhil	llips Com	npany			Drill Contractor Cascade Drilling Inc.	LOG OF BORING	G B-4
Projec	t Name _Cor	nocoPhill	ips Site	No. 25	5216	Drill Method Geoprobe	Elevation (ft amsl)	
Numbe	er 34.75118	3.3003				Drilling Started 7/20/07 Ended 7/20/07	Total Depth _20.0	
Location	on 11400 S	W Beave	erton-Hil	Isdale	Hwy.	Logged By Kevin Miller	Depth To Water	
DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION		DEPTH
5 —	CT B-4-5	8	2.9	CL ML	П	SILTY CLAY. 75% clay, 25% silt. Gray to brown. High plasti Medium plasticity. CLAYEY SAND. 75% sand, 25% clay. Very fine grained. Oli		
15 —	CT B-4-15		2.8	SC				- 15 -
20 —	CT B-4-20		1.9			Bottom of hole at 20 feet		20
$\overline{}$						Remarks : *Beaverton, OR. Groundwater	encountered between 10 and 15 fact	has



LOG A EWNN05 255216 BORING LOGS.GPJ LOG A EWNN05.GDT 9/13/07

9185 S. Farmer Ave., Ste 107 Tempe, Arizona 85284 Phone: 480.894.2056 Fax: 480.894.2497 Remarks: *Beaverton, OR. Groundwater encountered between 10 and 15 feet bgs during drilling. Depth to groundwater measurement not collected.

See key sheet for symbols and abbreviations used above.

APPENDIX C

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENT



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips Suite 212 1230 W. Washington Tempe AZ 85281

602-452-2502

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1048024. Samples arrived at the laboratory on Saturday, July 21, 2007. The PO# for this group is 4508536074 and the release number is BOONE.

Client Descrip	ption		<u>Lancaster Labs Number</u>
B-4-10	Grab	Soil	5109029
B-4	Grab	Water	5109030
B-3-10	Grab	Soil	5109031
B-3	Grab	Water	5109032
B-2-10	Grab	Soil	5109033
B-2	Grab	Water	5109034
B-1-10	Grab	Soil	5109035
B-1	Grab	Water	5109036

ELECTRONIC COPY TO

ATC Associates, Inc.

Attn: Keli Vandegrift



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Questions? Contact your Client Services Representative Megan A Moeller at (717) 656-2300

Respectfully Submitted,

Melissa A. McDermott

Melissa a Mc Sernott

Senior Chemist



Dru

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Page 1 of 3

Lancaster Laboratories Sample No. SW 5109029

B-4-10

ab Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 07:45

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212 1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
00111	Moisture	n.a.	20.3	0.50	0.50	ક	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of moisture resu	the sample a lt reported	after oven drying a above is on an	at		
02005	TPH by NWTPH-Gx soils						
01659	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	6.3	mg/kg	25
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	N.D.	3.8	8.8	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	38.	mg/kg	1
03983	EPA SW 846/8260 - Soil						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.006	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	0.006	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.006	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.006	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.025	0.12	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.12	0.62	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.006	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.006	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.002	0.012	mg/kg	1
05441	EPA SW846/8260 (soil)						
05444	Chloromethane	74-87-3	N.D.	0.002	0.006	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	0.006	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.002	0.006	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.002	0.006	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.006	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.006	mg/kg	1
05450	Methylene Chloride	75-09-2	0.005 J	0.002	0.006	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.006	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.006	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.006	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	0.006	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.006	mg/kg	1

^{*=}This limit was used in the evaluation of the final result



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Page 2 of 3

Lancaster Laboratories Sample No. SW 5109029

B-4-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 07:45

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212

Discard: 09/06/2007

1230 W. Washington Tempe AZ 85281

BVRT6

DVICEO				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.006	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0006	0.006	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.006	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	0.006	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.006	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	0.006	mg/kg	1
05466	Toluene	108-88-3	0.003 J	0.001	0.006	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.006	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	0.006	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	0.006	mg/kg	1
05472	Chlorobenzene	108-90-7	N.D.	0.001	0.006	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	0.006	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	0.006	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	0.006	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	0.006	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.006	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.006	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.006	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.006	mg/kg	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00111	Moisture	SM20 2540 G	1	07/24/2007 18:02	Scott W Freisher	1
02005	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	07/23/2007 17:29	Linda C Pape	25
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/26/2007 01:57	Glorines Suarez- Rivera	1
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	07/25/2007 19:52	Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	07/25/2007 19:52	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	07/25/2007 17:24	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	07/23/2007 09:02	Suzanne E Beisel	n.a.

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. SW 5109029

B-4-10

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 07:45

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

BVRT6

07024 DRO Alternate Soil Extraction

ECY 97-602 NWTPH-Dx 06/97

07/24/2007 09:30 Ineabelle Poveda

^{*=}This limit was used in the evaluation of the final result



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Page 1 of 3

Lancaster Laboratories Sample No. WW 5109030

B-4

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 08:05

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212 1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095	Diesel Range Organics	n.a.	N.D.	800.	2,500.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	1,000.	5,000.	ug/l	1
	Due to the nature of the sample for analysis. The reporting 1						
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	250.	ug/l	1
	The vial submitted for volatile	e analysis did	not have a ph	H < 2 at the time			
	of analysis. Due to the volat	ile nature of	the analytes,	it is not			
	appropriate for the laboratory	to adjust the	e pH at the tim	me of sample			
	receipt. The pH of this sample	e was $pH = 4$.					
05382	EPA SW846/8260 (water)						
05385	Chloromethane	74-87-3	N.D.	1.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	5.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	5.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	5.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	5.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	5.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1

^{*=}This limit was used in the evaluation of the final result



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Page 2 of 3

Lancaster Laboratories Sample No. WW 5109030

B-4

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 08:05

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

ConocoPhillips Suite 212

Discard: 09/06/2007

1230 W. Washington Tempe AZ 85281

6BVRT

				As Received	As Received		
CAT			As Received	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.8	5.	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
08202	EPA SW 846/8260 - Water						
01587	Ethanol	64-17-5	N.D.	50.	250.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	10.	0.5	5.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.8	5.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.8	5.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.8	5.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	10.	80.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	10.	ug/l	1
	The vial submitted for volatile	analysis did	not have a pH	< 2 at the time			

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 6.

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT
No. Analysis Name
02211 TPH by NWTPH-Dx(water)
w/SiGel

Method ECY 97-602 NWTPH-Dx modified Analysis
Trial# Date and Time
1 07/27/2007 04:55

Analyst Glorines Suarez-Rivera Dilution Factor

^{*=}This limit was used in the evaluation of the final result



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Page 3 of 3

Lancaster	Laboratories	Sample	No.	WW	5109030

B-4Grab Water Site# 255216 11400 SW Beaverton Hilldale Hwy - Beaverton, OR

by KM Collected:07/20/2007 08:05 Account Number: 12258

ConocoPhillips Submitted: 07/21/2007 09:30 Reported: 08/06/2007 at 17:12 Discard: 09/06/2007 Suite 212

Discar	d: 09/06/2007	. 2	1230 W. Washington Tempe AZ 85281					
6BVRT				9 9		100		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	07/24/2007 13:42	Steven A Skiles	1		
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/02/2007 19:17	Emiley A King	1		
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/02/2007 19:17	Emiley A King	1		
01146	GC VOA Water Prep	SW-846 5030B	1	07/24/2007 13:42	Steven A Skiles	1		
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/02/2007 19:17	Emiley A King	1		
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	07/25/2007 19:45	Elaine F Stoltzfus	1		

^{*=}This limit was used in the evaluation of the final result



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Page 1 of 3

Lancaster Laboratories Sample No. SW 5109031

B-3-10

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 08:50

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12 Discard: 09/06/2007

1230 W. Washington Tempe AZ 85281

				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
00111	Moisture	n.a.	21.1	0.50	0.50	8	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.				at		
02005	TPH by NWTPH-Gx soils						
01659	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	6.3	mg/kg	25
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	N.D.	3.8	8.9	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	38.	mg/kg	1
03983	EPA SW 846/8260 - Soil						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.006	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	0.006	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.006	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.006	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.026	0.13	mg/kg	1.01
06089	Ethanol	64-17-5	N.D.	0.13	0.64	mg/kg	1.01
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.006	mg/kg	1.01
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.006	mg/kg	1.01
08199	Freon 113	76-13-1	N.D.	0.003	0.013	mg/kg	1.01
05441	EPA SW846/8260 (soil)						
05444	Chloromethane	74-87-3	N.D.	0.003	0.006	mg/kg	1.01
05445	Vinvl Chloride	75-01-4	N.D.	0.001	0.006	mg/kg	1.01
05446	Bromomethane	74-83-9	N.D.	0.003	0.006	mg/kg	1.01
05447	Chloroethane	75-00-3	N.D.	0.003	0.006	mg/kg	1.01
05448	Trichlorofluoromethane	75-69-4	N.D.	0.003	0.006	mg/kg	1.01
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.006	mg/kg	1.01
05450	Methylene Chloride	75-09-2	N.D.	0.003	0.006	mg/kg	1.01
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.006	mg/kg	1.01
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.006	mg/kg	1.01
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.006	mg/kg	1.01
05455	Chloroform	67-66-3	N.D.	0.001	0.006	mg/kg	1.01
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.006	mg/kg	1.01
	-,-,-					2. 3	

^{*=}This limit was used in the evaluation of the final result



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Page 2 of 3

Lancaster Laboratories Sample No. SW 5109031

B-3-10

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 08:50

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

ConocoPhillips

BVRT3

BVR13				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.006	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0006	0.006	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.006	mg/kg	1.01
05462	Trichloroethene	79-01-6	N.D.	0.001	0.006	mg/kg	1.01
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.006	mg/kg	1.01
05465	Bromodichloromethane	75-27-4	N.D.	0.001	0.006	mg/kg	1.01
05466	Toluene	108-88-3	0.008	0.001	0.006	mg/kg	1.01
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.006	mg/kg	1.01
05468	Tetrachloroethene	127-18-4	N.D.	0.001	0.006	mg/kg	1.01
05470	Dibromochloromethane	124-48-1	N.D.	0.001	0.006	mg/kg	1.01
05472	Chlorobenzene	108-90-7	N.D.	0.001	0.006	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	0.006	mg/kg	1.01
05475	m+p-Xylene	1330-20-7	N.D.	0.001	0.006	mg/kg	1.01
05476	o-Xylene	95-47-6	N.D.	0.001	0.006	mg/kg	1.01
05478	Bromoform	75-25-2	N.D.	0.001	0.006	mg/kg	1.01
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.006	mg/kg	1.01
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.006	mg/kg	1.01
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.006	mg/kg	1.01
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.006	mg/kg	1.01

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT		1		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00111	Moisture	SM20 2540 G	1	07/24/2007 18:02	Scott W Freisher	1
02005	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	07/23/2007 18:09	Linda C Pape	25
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/26/2007 02:16	Glorines Suarez- Rivera	1
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	07/25/2007 20:15	Nicholas R Rossi	1.01
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	07/25/2007 20:15	Nicholas R Rossi	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	07/25/2007 17:20	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	07/23/2007 09:04	Suzanne E Beisel	n.a.

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. SW 5109031

B-3-10

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 08:50

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

BVRT3

07024

DRO Alternate Soil

ECY 97-602 NWTPH-Dx

07/24/2007 09:30 Ineabelle Poveda

^{*=}This limit was used in the evaluation of the final result



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Grab

by KM

Page 1 of 3

Lancaster Laboratories Sample No. WW 5109032

B-3

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 09:05

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212 1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095 02096	Diesel Range Organics Heavy Range Organics Due to the nature of the sample for analysis. The reporting 1:		_		2,500. 5,000.	ug/l ug/l	1
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters The vial submitted for volatile of analysis. Due to the volat: appropriate for the laboratory receipt. The pH of this sample	ile nature of to adjust the	the analytes,	it is not	250.	ug/l	1
05382	EPA SW846/8260 (water)						
05385	Chloromethane	74-87-3	N.D.	1.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	5.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	5.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	5.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	5.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	5.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1

^{*=}This limit was used in the evaluation of the final result



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Page 2 of 3

Lancaster Laboratories Sample No. WW 5109032

B-3

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 09:05

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington Tempe AZ 85281

Discard: 09/06/2007

3BVRT

JEVICI				As Received	As Received		
CAT			As Received	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.8	5.	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
08202	EPA SW 846/8260 - Water						
01587	Ethanol	64-17-5	N.D.	50.	250.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	6.	0.5	5.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.8	5.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.8	5.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.8	5.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	10.	80.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	10.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

		Labora cor y	CITT O.	111010		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/27/2007 00:23	Glorines Suarez- Rivera	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	07/24/2007 14:11	Steven A Skiles	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/02/2007 15:03	Emiley A King	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/02/2007 15:03	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/24/2007 14:11	Steven A Skiles	1

^{*=}This limit was used in the evaluation of the final result



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1

Lancaster Laboratories Sample No. WW 5109032

B-3

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 09:05

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

ConocoPhillips

Suite 212

1230 W. Washington

Tempe AZ 85281

3BVRT

01163 02135

GC/MS VOA Water Prep Extraction - DRO Water

SW-846 5030B ECY 97-602 NWTPH-Dx

08/02/2007 15:03 1

Emiley A King 07/25/2007 19:10 Mitchell B Crawford

Special

06/97

^{*=}This limit was used in the evaluation of the final result



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Page 1 of 3

Lancaster Laboratories Sample No. SW 5109033

B-2-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 10:05

by KM

Account Number: 12258

collected:07/20/2007 10:03

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212 1230 W. Washington Tempe AZ 85281

Discard: 09/06/2007

				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
00111	Moisture	n.a.	22.9	0.50	0.50	8	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.				at		
02005	TPH by NWTPH-Gx soils						
01659	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	6.5	mg/kg	25
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	N.D.	3.9	9.1	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	39.	mg/kg	1
03983	EPA SW 846/8260 - Soil						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.006	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	0.006	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.006	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.006	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.026	0.13	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.13	0.65	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.006	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.006	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.003	0.013	mg/kg	1
05441	EPA SW846/8260 (soil)						
05444	Chloromethane	74-87-3	N.D.	0.003	0.006	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	0.006	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.003	0.006	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.003	0.006	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.003	0.006	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.006	mg/kg	1
05450	Methylene Chloride	75-09-2	0.005 J	0.003	0.006	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.006	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.006	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.006	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	0.006	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.006	mg/kg	1
	80K 98K						

^{*=}This limit was used in the evaluation of the final result



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Page 2 of 3

Lancaster Laboratories Sample No. SW 5109033

B-2-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 10:05

by KM

Account Number: 12258

corrected:07/20/2007 10:05

Submitted: 07/21/2007 09:30

Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

ConocoPhillips

BVRT2

DVKIZ				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.006	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0006	0.006	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.006	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	0.006	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.006	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	0.006	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	0.006	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.006	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	0.006	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	0.006	mg/kg	1
05472	Chlorobenzene	108-90-7	N.D.	0.001	0.006	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	0.006	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	0.006	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	0.006	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	0.006	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.006	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.006	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.006	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.006	mg/kg	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

		Law of a coll				
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00111	Moisture	SM20 2540 G	1	07/24/2007 18:02	Scott W Freisher	1
02005	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	07/23/2007 18:50	Linda C Pape	25
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/26/2007 02:36	Glorines Suarez- Rivera	1
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	07/25/2007 20:38	Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1.	07/25/2007 20:38	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	07/25/2007 17:26	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	07/23/2007 09:06	Suzanne E Beisel	n.a.

^{*=}This limit was used in the evaluation of the final result



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Page 3 of 3

5109033 Lancaster Laboratories Sample No. SW

B-2-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 10:05

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Suite 212

Discard: 09/06/2007

1230 W. Washington Tempe AZ 85281

ConocoPhillips

BVRT2

07024

DRO Alternate Soil Extraction

06/97

ECY 97-602 NWTPH-Dx

1 07/24/2007 09:30 Ineabelle Poveda

^{*=}This limit was used in the evaluation of the final result



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Page 1 of 3

Lancaster Laboratories Sample No. WW 5109034

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 10:15

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212 1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095 02096	Diesel Range Organics Heavy Range Organics	n.a.	11,000. 1,600. J	320. 400.	1,000. 2,000.	ug/l ug/l	1
	Due to the nature of the sampl for analysis. The reporting 1						
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	130. J	50.	250.	ug/l	1
05382	EPA SW846/8260 (water)						
05385	Chloromethane	74-87-3	N.D.	1.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	5.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	5.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	5.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	5.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	5.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	2. J	0.8	5.	ug/l	1

^{*=}This limit was used in the evaluation of the final result



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Page 2 of 3

Lancaster Laboratories Sample No. WW 5109034

B-2

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 10:15

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Suite 212 1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

ConocoPhillips

2BVRT

ZBVKI				As Received	As Received		
CAT			As Received	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05417	o-Xylene	95-47-6	N.D.	0.8	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
08202	EPA SW 846/8260 - Water						
01587	Ethanol	64-17-5	N.D.	50.	250.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	5.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.8	5.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.8	5.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.8	5.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	10.	80.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	10.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

		Haboracory	CITTO			
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/27/2007 00:42	Glorines Suarez- Rivera	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	07/24/2007 14:40	Steven A Skiles	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/02/2007 20:26	Emiley A King	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/02/2007 20:26	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/24/2007 14:40	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/02/2007 20:26	Emiley A King	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	07/25/2007 19:10	Mitchell B Crawford	1

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 5109034

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 10:15

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212 1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

^{*=}This limit was used in the evaluation of the final result



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Page 1 of 3

Lancaster Laboratories Sample No. SW 5109035

B-1-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 12:50

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington Tempe AZ 85281

Discard: 09/06/2007

Discard: 09/00/2007

				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
00111	Moisture	n.a.	23.4	0.50	0.50	ક	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.				at		
02005	TPH by NWTPH-Gx soils						
01659	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	6.5	mg/kg	25
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	N.D.	3.9	9.1	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	39.	mg/kg	1
03983	EPA SW 846/8260 - Soil						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	0.007	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	0.007	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.007	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.007	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.026	0.13	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.13	0.65	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.007	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.007	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.003	0.013	mg/kg	1
05441	EPA SW846/8260 (soil)						
05444	Chloromethane	74-87-3	N.D.	0.003	0.007	mq/kq	1
05445	Vinvl Chloride	75-01-4	N.D.	0.001	0.007	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.003	0.007	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.003	0.007	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.003	0.007	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.007	mg/kg	1
05450	Methylene Chloride	75-09-2	0.004 J	0.003	0.007	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.007	mg/kg	1
05451	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.007	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.007	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	0.007	mg/kg	1
05455	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.007	mg/kg	1
03437	I, I, I II ICIII OI OECIIAIIE	,1 33-0		0.001			=

^{*=}This limit was used in the evaluation of the final result



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Page 2 of 3

5109035 Lancaster Laboratories Sample No. SW

B-1-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 12:50

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212

1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

BVRT1

	·			Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.007	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0007	0.007	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.007	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	0.007	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.007	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	0.007	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	0.007	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.007	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	0.007	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	0.007	mg/kg	1
05472	Chlorobenzene	108-90-7	N.D.	0.001	0.007	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	0.007	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	0.007	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	0.007	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	0.007	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.007	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.007	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.007	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.007	mg/kg	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00111	Moisture	SM20 2540 G	1	07/24/2007 18:02	Scott W Freisher	1
02005	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	07/23/2007 19:31	Linda C Pape	25
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/26/2007 03:15	Glorines Suarez- Rivera	1
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	07/25/2007 21:02	Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	07/25/2007 21:02	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	07/25/2007 17:18	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	07/23/2007 09:08	Suzanne E Beisel	n.a.

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. 5109035

B-1-10

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 12:50

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12 Discard: 09/06/2007

ConocoPhillips

Suite 212

1230 W. Washington

Tempe AZ 85281

BVRT1

07024

DRO Alternate Soil Extraction

ECY 97-602 NWTPH-Dx

1 07/24/2007 09:30 Ineabelle Poveda

^{*=}This limit was used in the evaluation of the final result



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by KM

Page 1 of 3

Lancaster Laboratories Sample No. WW 5109036

B-1

Grab Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 13:10

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212 1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095	Diesel Range Organics	n.a.	N.D.	320.	1,000.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	400.	2,000.	ug/l	1
	Due to the nature of the samplfor analysis. The reporting 1						
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	250.	ug/l	1
05382	EPA SW846/8260 (water)						
05385	Chloromethane	74-87-3	N.D.	1.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	5.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	5.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	5.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	5.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	5.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.8	5.	ug/l	1

^{*=}This limit was used in the evaluation of the final result



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Page 2 of 3

Lancaster Laboratories Sample No. WW 5109036

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 13:10

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

ConocoPhillips Suite 212

Discard: 09/06/2007

1230 W. Washington

Tempe AZ 85281

1BVRT

IBAKI								
				As Received	As Received			
CAT			As Received	Method	Limit of		Dilution	
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor	
05417	o-Xylene	95-47-6	N.D.	0.8	5.	ug/l	1	
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1	
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1	
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1	
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1	
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1	
08202	EPA SW 846/8260 - Water							
01587	Ethanol	64-17-5	N.D.	50.	250.	ug/l	1	
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	5.	ug/l	1	
02011	di-Isopropyl ether	108-20-3	N.D.	0.8	5.	ug/l	1	
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.8	5.	ug/l	1	
02014	t-Amyl methyl ether	994-05-8	N.D.	0.8	5.	ug/l	1	
02015	t-Butyl alcohol	75-65-0	N.D.	10.	80.	ug/l	1	
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1	
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1	
08203	Freon 113	76-13-1	N.D.	2.	10.	ug/l	1	

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/27/2007 01:21	Glorines Suarez- Rivera	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	07/24/2007 15:10	Steven A Skiles	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/02/2007 20:49	Emiley A King	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/02/2007 20:49	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/24/2007 15:10	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/02/2007 20:49	Emiley A King	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	07/25/2007 19:10	Mitchell B Crawford	1

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 5109036

B-1

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 13:10 by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

^{*=}This limit was used in the evaluation of the final result



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 *717-656-2300 Fax: 717-656-2681 * www.lancasterlabs.com

Page 1 of 7

Quality Control Summary

Client Name: ConocoPhillips Reported: 08/06/07 at 05:13 PM Group Number: 1048024

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method

Laboratory Compliance Quality Control

	Blank	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
Analysis Name	Result	MDL**	LOO	<u>Units</u>	%REC	%REC	<u>Limits</u>	RPD	RPD Max
Batch number: 07200A02C TPH by NWTPH-Gx soils	Sample n N.D.	number(s):	5109029,510	9031,5109033 mg/kg	,51090 108	35	67-119		
Batch number: 072050007A Diesel Range Organics Heavy Range Organics	Sample n N.D. N.D.	umber(s): 3.0 10.	5109029,510 7.0 30.	9031,5109033 mg/kg mg/kg	,51090 72	35	60-120		
Batch number: 07205820001A Moisture	Sample n	umber(s):	5109029,510	9031,5109033	,51090 100	35	99-101		
Batch number: 07205A07A TPH by NWTPH-Gx waters	Sample n	umber(s):	5109030,510 250.	9032,5109034 ug/l	,51090 108	36 110	75-135	3	30
Batch number: 072060012A Diesel Range Organics Heavy Range Organics	Sample n N.D. N.D.	umber(s): 80. 100.	5109030 250. 500.	ug/l ug/l	69		61-106		
Batch number: 072060017A Diesel Range Organics Heavy Range Organics	Sample non N.D.	umber(s): 80. 100.	5109032,510 250. 500.	9034,5109036 ug/l ug/l	70		61-106		
Batch number: B072061AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene Chloroform 1,1,1-Trichloroethane Carbon Tetrachloride Benzene 1,2-Dichloroethane Trichloroethene Trichloroethene 1,2-Dichloroethane Trichloroethene Trichloroethene 1,2-Dichloropropane Bromodichloromethane Toluene 1,1,2-Trichloroethane	Sample n N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	umber(s): 0.0005 0.001 0.002 0.002 0.002 0.002 0.001	0.005 0.005 0.005 0.10 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005	9031,5109033 mg/kg	,51090: 104 96 99 98 94 88 99 100 104 99 102 99 103 102 101 99 108 99 102 101 99	35	72-117 72-120 72-115 73-116 52-153 58-123 60-118 61-118 63-120 58-125 74-115 75-120 77-113 82-116 84-113 81-117 74-127 76-122 84-115 76-126 81-114 78-119 77-116 81-116 81-116		

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The background result was more than four times the spike added.



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Quality Control Summary

Client Name: ConocoPhillips Reported: 08/06/07 at 05:13 PM Group Number: 1048024

Laboratory Compliance Quality Control

	Blank	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
Analysis Name	Result	MDL * *	LOO	Units	%REC	%REC	Limits	RPD	RPD Max
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	98		70-117		
Dibromochloromethane	N.D.	0.001	0.005	mg/kg	100		80-113		
Chlorobenzene	N.D.	0.001	0.005	mg/kg	97		81-112		
Ethylbenzene	N.D.	0.001	0.005	mg/kg	99		82-115		
m+p-Xylene	N.D.	0.001	0.005	mg/kg	98		82-117		
o-Xylene	N.D.	0.001	0.005	mg/kg	97		82-117		
Bromoform	N.D.	0.001	0.005	mg/kg	103		63-120		
1,1,2,2-Tetrachloroethane	N.D.	0.001	0.005	mg/kg	113		64-121		
1,3-Dichlorobenzene	N.D.	0.001	0.005	mg/kg	94		76-112		
1,4-Dichlorobenzene	N.D.	0.001	0.005	mg/kg	95		78-108		
1,2-Dichlorobenzene	N.D.	0.001	0.005	mg/kg	97		81-109		
Ethanol	N.D.	0.10	0.50	mg/kg	90		48-149		
trans-1,3-Dichloropropene	N.D.	0.001	0.005	mg/kg	97		79-112		
cis-1,3-Dichloropropene	N.D.	0.001	0.005	mg/kg	97		80-111		
Freon 113	N.D.	0.002	0.010	mg/kg	86		62-112		
Batch number: N072142AA	Sample num	ber(s): 53	109030,510	9032,510903	4,51090	36			
Ethanol	N.D.	50.	250.	ug/l	105		39-161		
Methyl Tertiary Butyl Ether	N.D.	0.5	5.	ug/l	98		73-119		
di-Isopropyl ether	N.D.	0.8	5.	ug/l	100		70-123		
Ethyl t-butyl ether	N.D.	0.8	5.	ug/l	98		74-120		
t-Amyl methyl ether	N.D.	0.8	5.	ug/l	98		79-113		
t-Butyl alcohol	N.D.	10.	80.	ug/l	95		69-127		
Chloromethane	N.D.	1.	5.	ug/l	66		47-132		
Vinyl Chloride	N.D.	1.	5.	ug/l	70		54-123		
Bromomethane	N.D.	1.	5.	ug/l	70		47-129		
Chloroethane	N.D.	1.	5.	ug/l	72		57-125		
Trichlorofluoromethane	N.D.	2.	5.	ug/l	69		57-141		
1,1-Dichloroethene	N.D.	0.8	5.	ug/l	96		76-122		
Methylene Chloride	N.D.	2.	5.	ug/l	98		85-120		
trans-1,2-Dichloroethene	N.D.	0.8	5.	ug/l	96		83-117		
1,1-Dichloroethane	N.D.	1.	5.	ug/l	99		83-127		
cis-1,2-Dichloroethene	N.D.	0.8	5.	ug/l	95		84-117		
Chloroform	N.D.	0.8	5.	ug/l	101		86-124		
1,1,1-Trichloroethane	N.D.	0.8	5.	ug/l	97		83-127		
Carbon Tetrachloride	N.D.	1.	5.	ug/l	93		77-130		
Benzene	N.D.	0.5	5.	ug/l	96		78-119		
1,2-Dichloroethane	N.D.	1.	5.	ug/l	102		77-132		
Trichloroethene	N.D.	1.	5.	ug/l	95		87-117		
1,2-Dichloropropane	N.D.	1.	5.	ug/l	99		80-117		
Bromodichloromethane	N.D.	1.	5.	ug/l	100		83-121		
Toluene	N.D.	0.7	5.	ug/l	94		85-115		
1,1,2-Trichloroethane	N.D.	0.8	5.	ug/l	100		86-113		
Tetrachloroethene	N.D.	0.8	5.	ug/l	89		74-125		
Dibromochloromethane	N.D.	1.	5.	ug/l	100		78-119		
Chlorobenzene	N.D.	0.8	5.	ug/l	96		85-115		
Ethylbenzene	N.D.	0.8	5.	ug/l	95		82-119 83-113		
m+p-Xylene	N.D.	0.8	5.	ug/l	93		83-113		
o-Xylene	N.D.	0.8	5.	ug/1	94				
Bromoform	N.D.	1.	5.	ug/l	88 99		69-118 72-119		
1,1,2,2-Tetrachloroethane	N.D.	1.	5.	ug/l	93		81-114		
1,3-Dichlorobenzene	N.D.	1.	5.	ug/1	93		84-116		
1,4-Dichlorobenzene	N.D.	1.	5.	ug/1	94		81-112		
1,2-Dichlorobenzene	N.D.	1. 1.	5. 5.	ug/1	98		79-114		
trans-1,3-Dichloropropene	N.D.	Ι.	5.	ug/l	30		13-114		

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

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Quality Control Summary

Client Name: ConocoPhillips

Group Number: 1048024

Reported: 08/06/07 at 05:13 PM

Laboratory Compliance Quality Control

	Blank	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
Analysis Name	Result	MDL * *	LOO	Units	%REC	%REC	Limits	$\underline{\mathtt{RPD}}$	RPD Max
cis-1,3-Dichloropropene	N.D.	1.	5.	ug/l	95		78-114		
Freon 113	N.D.	2.	10.	ug/l	83		66-125		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 07200A02C TPH by NWTPH-Gx soils	Sample 93	number(s)	: 5109029 39-118	,510903 12	1,5109 30	033,5109035	UNSPK: P10	2712	
Batch number: 072050007A Diesel Range Organics Heavy Range Organics	Sample	number(s)	: 5109029	,510903	1,5109	033,5109035 N.D. N.D.	BKG: P108 N.D. N.D.	138 0 (1) 0 (1)	20
Batch number: 07205820001A Moisture	Sample	number(s)	: 5109029	,510903	1,5109	033,5109035 20.3	BKG: 5109 22.9	029 12	15
Batch number: 07205A07A TPH by NWTPH-Gx waters	Sample 94	number(s)	: 5109030 63-154	,510903	2,5109	034,5109036	UNSPK: P10	8323	
Batch number: 072060012A Diesel Range Organics Heavy Range Organics	Sample	number(s)	: 5109030	BKG:	510903	N.D. N.D.	N.D. N.D.	0 (1) 0 (1)	20 20
Batch number: 072060017A Diesel Range Organics Heavy Range Organics	Sample	number(s)	: 5109032	,510903	4,5109	036 BKG: 5 11,000. 1,600. J	109034 8,600. 1,200. J	24* 29* (1)	20 20
Batch number: B072061AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene Chloroform 1,1,1-Trichloroethane Carbon Tetrachloride Benzene	92 92 88 90 84 85 87 90 91 98 99 88 99 101 90 101 96	95 91 92 91 95 81 77 81 82 87 89 92 89 95 89	47-130 58-113 60-112 53-112 51-134 38-115 48-113 50-114 49-127 56-113 42-131 60-110 65-115 67-110 69-117 64-118 56-120	6 0 6 3 14 4 10 9 8 10 9 5 4 5 0 2 2 3 7	30 30 30 30 30 30 30 30 30 30 30 30 30 3	033,5109035	UNSPK: P10	8609	
Benzene 1,2-Dichloroethane	97 102	92 102	59-120 62-130	3	30				

^{*-} Outside of specification

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Quality Control Summary

Client Name: ConocoPhillips Reported: 08/06/07 at 05:13 PM Group Number: 1048024

Sample Matrix Quality Control Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Trichloroethene	97	91	48-124	5	30				
1,2-Dichloropropane	94	93	64-112	0	30				
Bromodichloromethane	97	95	57-117	0	30				
Toluene	83	81	38-131	1	30				
1,1,2-Trichloroethane	95	95	64-118	1	30				
Tetrachloroethene	94	88	40-140	5	30				
Dibromochloromethane	95	94	58-113	1	30				
Chlorobenzene	93	92	58-109	0	30				
Ethylbenzene	94	90	54-116	3	30				
m+p-Xylene	94	91	44-127	2	30				
o-Xylene	93	91	44-127	1	30				
Bromoform	90	91	54-114	3	30				
1,1,2,2-Tetrachloroethane	97	98	37-142	3	30				
1,3-Dichlorobenzene	90	91	47-109	3	30				
1,4-Dichlorobenzene	92	90	47-109	0	30				
1,2-Dichlorobenzene	93	93	50-111	2	30				
Ethanol	89	93	33-155	5	30				
trans-1,3-Dichloropropene	90	89	60-110	1	30				
cis-1,3-Dichloropropene	93	89	56-112	2	30				
Freon 113	85	80	45-107	5	30				
							c	-100020	
Batch number: N072142AA						9034,510903	6 UNSPK:	5109030	
Ethanol	106	113	41-159	6	30				
Methyl Tertiary Butyl Ether	98	104	69-127	4	30				
di-Isopropyl ether	108	107	68-129	1	30				
Ethyl t-butyl ether	104	104	78-119	1	30				
t-Amyl methyl ether	104	104	72-125	1	30				
t-Butyl alcohol	92	94	64-130	2	30				
Chloromethane	85	83	46-149	3	30				
Vinyl Chloride	91	87	54-143	4	30				
Bromomethane	80	76	52-141	4	30				
Chloroethane Trichlorofluoromethane	86 99	81	56-140	6	3 0 3 0				
		102	64-165	0	30				
1,1-Dichloroethene	117	117	87-145	2	30				
Methylene Chloride	108	106 110	79-133	0	30				
trans-1,2-Dichloroethene	110	110	82-133 85-135	1	30				
1,1-Dichloroethane cis-1,2-Dichloroethene	111 105	105	83-136	1	30				
Chloroform	110	108	83-126	2	30				
1,1,1-Trichloroethane	112	110	81-142	1	30				
Carbon Tetrachloride	109	109	82-149	0	30				
Benzene	108	106	83-128	2	30				
1,2-Dichloroethane	111	109	70-143	2	30				
Trichloroethene	107	106	83-136	1	30				
1,2-Dichloropropane	109	108	83-129	1	30				
Bromodichloromethane	108	107	80-129	1	30				
Toluene	106	106	83-127	0	30				
1,1,2-Trichloroethane	105	104	77-125	1	30				
Tetrachloroethene	101	101	78-133	0	30				
Dibromochloromethane	106	105	82-119	1	30				
Chlorobenzene	104	103	83-120	1	30				
Ethylbenzene	105	104	82-129	1	30				
m+p-Xylene	104	103	82-130	1	30				
W. P. WATERE	104	103	02-130	_	50				

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

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⁽²⁾ The background result was more than four times the spike added.



Analysis Report

DUP

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Dup RPD

DUP

Quality Control Summary

Client Name: ConocoPhillips

Group Number: 1048024

Reported: 08/06/07 at 05:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

MSD MS/MSD RPD BKG

Analysis Name	*REC	*REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
o-Xylene	104	102	82-130	1	30				
Bromoform	92	91	64-119	1	30				
1,1,2,2-Tetrachloroethane	102	100	73-121	1	30				
1,3-Dichlorobenzene	98	98	79-123	0	30				
1,4-Dichlorobenzene	98	99	81-122	1	30				
1,2-Dichlorobenzene	99	98	82-117	0	30				
trans-1,3-Dichloropropene	103	103	77-123	0	30				
cis-1,3-Dichloropropene	104	103	80-126	1	30				
Freon 113	115	115	78-146	1	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH by NWTPH-Gx soils Batch number: 07200A02C Trifluorotoluene-F

5109029	84
5109031	82
5109033	82
5109035	82
Blank	89
LCS	102
MS	93
MSD	99

Limits:

61-122

Analysis Name: TPH by NWTPH-Dx(soils) w/SiGel

Batch number: 072050007A Orthoterphenyl

77
89
91
89
92
90
106

Limits:

50-150

Analysis Name: TPH by NWTPH-Gx waters Batch number: 07205A07A

Trifluorotoluene-F

5109030 5109032

- *- Outside of specification
- **-This limit was used in the evaluation of the final result for the blank
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips Reported: 08/06/07 at 05:13 PM Group Number: 1048024

Surrogate Quality Control

5109034 96 5109036 Blank 105 LCS 105 LCSD 104 MS 101

Limits:

63-135

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel Batch number: 072060012A

Orthoterphenyl

5109030 Blank 88 81 LCS 100

Limits:

50-150

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel Batch number: 072060017A

Orthoterphenyl

5109032 5109034 92 5109036 84 Blank 84 DUP 90 LCS 100

Limits:

50-150

Analysis Name: EPA SW846/8260 (soil) Batch number: B072061AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5109029	98	91	99	86
5109031	101	92	99	86
5109033	96	93	100	85
5109035	99	92	99	86
Blank	101	96	98	85
LCS	100	97	102	96
MS	100	93	101	97
MSD	99	90	102	98
Limits:	71-114	70-109	70-123	70-111

Analysis Name: EPA SW846/8260 (water) Batch number: N072142AA

Batti IIuiii	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene			
5109030	96	97	100	95			
5109032	97	97	102	96			
5109034	97	96	100	96			
5109036	97	96	100	95			
Blank	97	98	100	95			
LCS	99	97	102	98			

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

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⁽²⁾ The background result was more than four times the spike added.



Analysis Report

78-113

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Quality Control Summary

Client Name: ConocoPhillips Reported: 08/06/07 at 05:13 PM

80-116

Limits:

Group Number: 1048024

Surrogate Quality Control

80-113

MS 99 100 101 97 MSD 99 97 101 97

77-113

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

Conocol illips Analy. Request/Chain of C_stody



For Lancaster Labs Use ONLY Acct #: 12258 Group # 1046024 Sample#: 51046243 SCR#:

1: Laboratories 007447									List total number of containers in the Analyses Requested box under each analysis.													
Site #: 255214. AOC#:							Matri	x		_			Pres	ervati	on C	odes			_	Preservative Co		des
Site City: BEANER-TON	_		te: DR		_					-	la K	2					\dagger	H	~	H = HCI N = HNO ₃ S = H ₂ SO ₄	T = Thic 8 = NaC 0 = Oth	H
_					-	П	Petable NPDES		ي. ا	3	8	Ļğ	1	7					13			
ConocoPhillips PM: Wal	BODNE		<u> </u>		_		Per	_	Brox	F	OKYA	HVoc	٦	2	1				15			
Samplers Name: K. M.L.	LER.				site	П		Ā	200		0	90	To To	F F					120			
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water		8260	8260	8260	8260	NWIPH-GX	NUJTPH-				Total	0 10	Remarks		
COP 255 216	B-4-5	7.20-01	740	У		X											I	K	3			
COR 255216	B-4-10		145	X		4	*		×	×	×	X	X	X					3			
COP 255216	B-4-15		750	X		×												K	3	- 3		
COR 255216	3-4-20:		750	×		X												X	3			
COR 255216	84		805	X			X		X	x	V	x	X	X					8		\$ a	
COR 255214	B-3-5		845	x		X												K	3			
COP 255214	3-3-10		850	1		X	1		X	x	K	×	×	X					3		,	
COP 255214	B3-15		855	X		X												X	3			
cor 255214	8-3-20		855	X		4	d.											×	3			
COP 255214	B-3		0905	X			X		X	×	×	¥	×	X					8			
COP 255214	8-2-5		1000	X			ď.	Ш										X	3			
COP 255216	B-2-10		1005	4			-		X	×	×	×	×	×					3			
COP 355214	8-2-15		1015	4													+		+-	No Samo	le	
Consultant Information: Office City: Ticheo	State:	œ		_	É	D)	5 0	day						usine Oth		ays (TAT)	(Circle	e One			
Project Manager: <u>Kett</u> Phone Number: <u>5</u> 53 <i>684</i>		503 624 0	415	-	Reli	ngui	sMed t	by			,			Date		2000		ed by.		7	Date	Tim
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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4531.02

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D. TNTC IU umhos/cm C Cal meq g	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s)	BMQL MPN CP Units NTU F Ib. kg mg	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s)
ug	microgram(s)	1	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

Inorganic Qualifiers

- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

В Value is <CRDL, but ≥IDL TIC is a possible aldol-condensation product В Analyte was also detected in the blank E Estimated due to interference C Pesticide result confirmed by GC/MS M Duplicate injection precision not met Compound quatitated on a diluted sample D N Spike amount not within control limits Method of standard additions (MSA) used E Concentration exceeds the calibration range of S for calculation the instrument U Compound was not detected J Estimated value Post digestion spike out of control limits W N Presumptive evidence of a compound (TICs only) Duplicate analysis not within control limits Concentration difference between primary and P Correlation coefficient for MSA < 0.995

confirmation columns >25%

U Compound was not detected

X,Y,Z Defined in case narrative

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

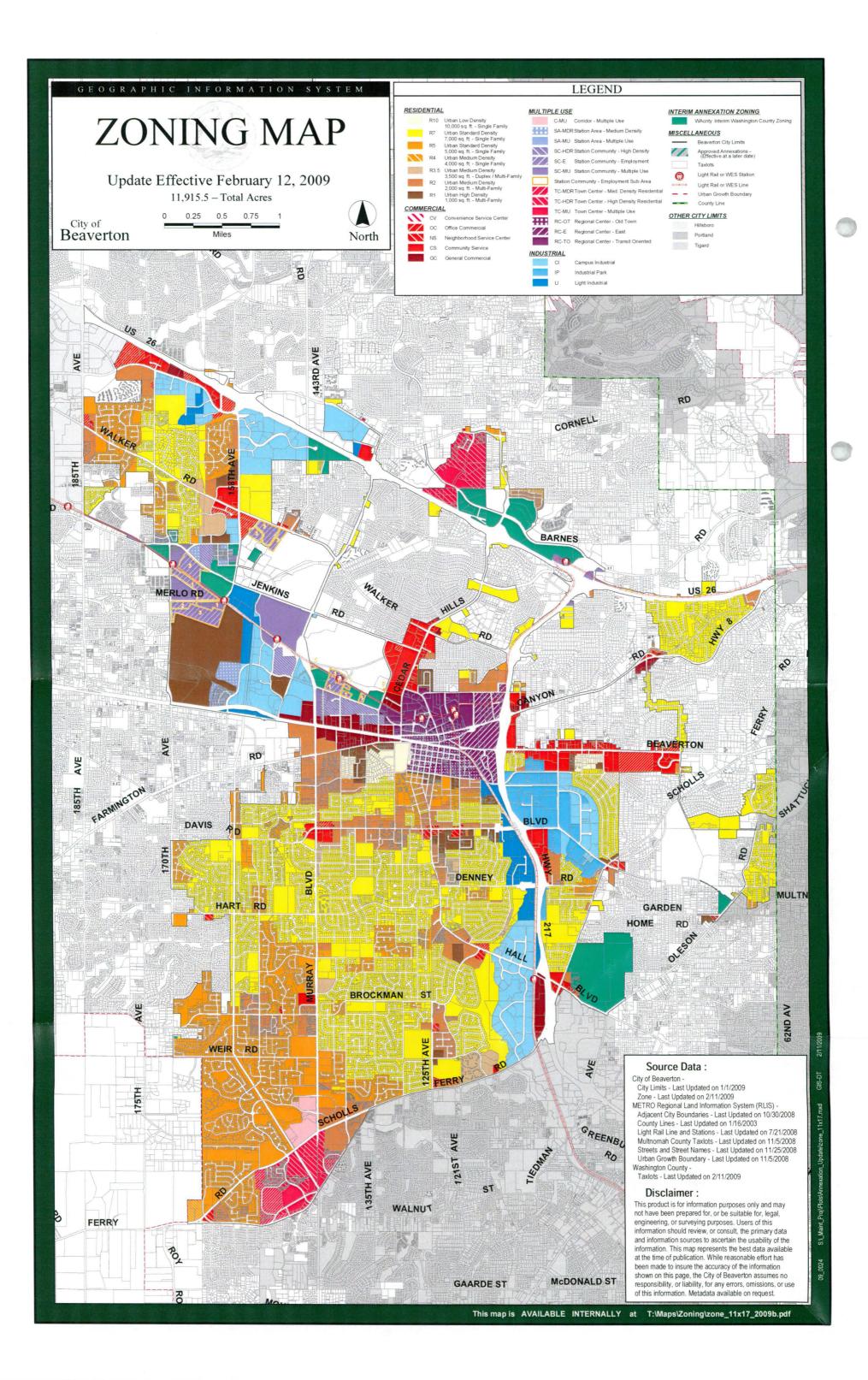
Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



ATTACHMENT 2 CITY OF BEAVERTON ZONING MAP

Request for File Closure ConocoPhillips Station 255216 (RM&R No. 1370) 11400 Southwest Beaverton-Hillsdale Highway Beaverton, Oregon February 6, 2009



ROMAN Bud

From:

Dauphinais, Justin [Justin.Dauphinais@stantec.com]

Sent:

Tuesday, February 03, 2009 10:14 AM

To:

ROMAN Bud

Subject:

RE: ConocoPhillips #2611022 final invoice

Bud

Here is the new ConocoPhillips site manager contact for of my all Stantec /CP sites.

Thanks

Jim Trotter, Site Manager Risk Management & Remediation ConocoPhillips Company Tempe, AZ (602) 452-2507

Justin Dauphinais

Geologic Project Specialist Stantec 7730 Southwest Mohawk Street Tualatin OR 97062 Ph: (503) 691-2030 Ext. 148

Fx: (503) 692-7074 Cell: (503) 764-7061

justin.dauphinais@stantec.com

stantec.com

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.



Please consider the environment before printing this email.

From: ROMAN Bud [mailto:ROMAN.Bud@deg.state.or.us]

Sent: Tuesday, February 03, 2009 9:40 AM

To: CLARK Liz

Cc: MONROE Sheila; Dauphinais, Justin; ROMAN Bud Subject: ConocoPhillips #2611022 final invoice

Hi Liz,

Please request a final invoice for the CP site above., DEQ FAC.727, LUST 34-07-0878.

Thanks,

Bud

FILE: 34-07-1495
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# DEPARTMENT OF ENVIRONMENTAL QUALITY EASTERN REGION OFFICE

#### PHONE MEMO

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DATE: 07-10-08 TIME: 3 = 352		
CALL FROM/TO: Justin Dauphinais		
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77.30 Southwest Mohawk Street Tualatin, Oregon 97062 503-691-2030 TEL / 503-692-7074 FAX www.secor.com

#### letter of transmittal

attention		Kevin Dana		date:	March 4, 2008						
attention	1.	Reviii Dana		uate.	Walch 4, 2000						
company	y:	Oregon Dept. of Environmental C	Quality								
address:	:	2020 SW 4 th Avenue, Suite 400 Portland, OR 97201									
project:		ConocoPhillips Site No. 255216 11400 SW Beaverton-Hillsdale Hwy., Beaverton, OR									
re:		Initial (Twenty Day) Report Form for UST Cleanup Projects									
( ) (X) I	d: Proposal Contract Report Letter Other:		( ) ( ) (X) ( ) ( ) ( )	As Req Review Your In Approv Signatu Return Other:	formation al						

comments:

Attached please find ATC's Due Diligence Site Assessment Report and the

follow-up Twenty Day Report Form.

Please call with any questions.

signator: title:

Justin Dauphinais
Project Geologist

MAR 0 5 200

NORTHWEST REGION



## OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY UNDERGROUND STORAGE TANK PROGRAM

### Initial (Twenty Day) Report Form for UST Cleanup Projects

Quality	
This report is due twenty (20) days from the date of the release.	
DEQ USTC File No34 - 07 - 1495	
DEQ Facility ID No	
Site Name: Conord Phillips Site 255216	
Site Address: 11400 SW Beaverton - Hillsdale Highway, Be	aurilan, DR
INITIAL CLEANUP INFORMATION  (1) Type of contamination (check all that apply):  **Consider ** Piecel ** Wester Oil ** Heating Oil **  **MAR	
	0 2000
DEPT. OF ENVIRO	EST REGION
SITE INFORMATION (Circle N for "no" or Y for "yes")	
(3) Y Did any water enter the excavation? If yes, please describe and identify the depth to groundwater in feet below ground surface:	_
(4) (N) Y Was a sheen or odor observed on any water in the excavation?	
<b>Note:</b> If groundwater is encountered, soil samples from the soil/water interface must be collected an for BTEX and by the appropriate TPH method.	d analyzed
At sites where diesel or other non-gasoline products have been released, the water may also be screened or tested for polynuclear aromatic hydrocarbons (PAHs). <i>Please refer to OAR 340-122-02</i>	have to be
(5) Y Was water pumped from the excavation?	
(N) Y If yes, did groundwater recharge within 24 hours after pumping?	
Please describe the pumping procedure and disposal option selected for the purged excavation w	ater:
(6) N Were any water samples collected from the excavation? If yes, please describe:	
(7) N W Have any soil and/or water sample results been received at this time?	
If so, please attach any lab reports.	
January 2008 Page 1 of 4 DEQ	-05-LQ-089A

## IF GROUNDWATER HAS BEEN ENCOUNTERED, PLEASE ANSWER QUESTIONS #8-13, BELOW. IF NO WATER HAS BEEN ENCOUNTERED, PLEASE SKIP TO QUESTION #14

(8)	What a	re th	ne known uses of groundwater within a 500-foot radius of the release site?
	X no	n-us	e industrial agricultural drinking supply
(9)			ater in this area is being used as a drinking water supply, please check the type and size of served by the supply:
	Co	omm	nunity (community well used for drinking water year round)
	size	e:	<1,000 people 1,000 - 5,000 people >5,000 people
	In	term	ittent use (public water used for drinking water only on a part-time basis)
	size	e:	<50 people 50 - 300 people > 300 people
	Pr	ivate	e wells (individual private well or wells used for drinking water)
	size	e:	<10 people 10 - 25 people >25 people
(10)	Ñ	Υ	Is there any evidence this water supply has been or is likely to be impacted from the petroleum product release? If yes, estimate how difficult it would be to replace the existing supply:
			bottled water is the only alternative
			on-site water treatment; bulk water delivery; new wells are available
		_	_ able to connect to existing water supply do not know what alternatives would be available
	(i)	.,	A / / / / / / / / / / / / / / / / / / /
(11)		Υ	Are/were vapors present in on-site or nearby buildings? If yes:
			A. Are you monitoring and/or mitigating any potential fire and safety hazards posed by vapors and free product? Explain:
			and nee product: Explain.
			B. Estimate the number of people potentially affected by vapors:
			1-2 people 3-10 people >10 people
(12)	N	Υ	Are vapors or is petroleum contamination present in the utility corridors?  If yes, please explain:
(13)	(N	Υ	Are natural areas located within 1/4 mile of the site? If so, please describe types (parks, rivers, wetlands, sensitive habitats, etc.) and proximity:
(14)	Ñ	Υ	If groundwater was not encountered in the excavation, do you believe that this cleanup project can be conducted under the requirements for an UST Cleanup Matrix site? If yes, then refer to OAR 340-122-0305 through 0360.

AREA	SITE CONDITIONS:
(15)	Mean annual rainfall: <20 inches >45 inches >45 inches
(16) SOIL (17)	Soil type(s) of the naturally occurring soils, not the backfill around the tank:  clays, compact tills, shales, and unfractured metamorphic and igneous rocks  sandy loams, loamy sands, silty clays, clay loams, moderately permeable limestone, dolomite, sandstones, moderately fractured igneous and metamorphic rock  fine and silty sands, sands and gravels, highly fractured igneous and metamorphic rock, permeable basalts and lavas, karst limestones and dolomites  ### MANAGEMENT  If soil sample results have been received:  W Will the level of contamination detected require removal of contaminated soil for treatment or
(18)	All contaminated soil temporarily stockpiled on-site prior to treatment or disposal must be contained within a bermed area, kept covered, and the entire area secured to prevent unauthorized access by the public. I you haven't done this, please explain why:
Note:	It is a violation to stockpile petroleum contaminated soil (PCS) on-site for greater than 30 days t a DEQ Solid Waste Letter Authorization (SWLA) Permit.
(19)	If contaminated soil is currently stockpiled on-site, please indicate when disposal will occur or when treatment will begin:
(20)	Estimated volume of contaminated soil (specify tons or cubic yards):
(21)	Intended disposition of soils (please check one):  On-site/off-site treatment, Solid Waste Letter Authorization Permit Application attached.  Thermal treatment off-site at an authorized facility.  Facility name:  Landfill disposal.  Name of Landfill:  Sol and water drums (emped from the site.)
Note:	Please attach additional information as necessary to explain any unusual circumstances ated with this project.

January 2008

This initial report is intended to provide the Department with the basic initial information about activities associated with the release. Future reports should provide a more detailed and complete picture of the cleanup project.

Please be aware that a DEQ permit/authorization is required for the following activities:

- 1) Soil aeration, bioremediation (on-site or off-site), or on-site thermal treatment.
- 2) Water discharges to a stream/storm drain from the excavation or treatment tank.

If these activities will be included in your cleanup project, contact the regional DEQ office for the appropriate application forms, information on permit fees and guidance documents.

#### THIS REPORT WAS PREPARED BY:

Phone: (503) 691-2030

Company: Address:

Individual:

City:

State OR Zip 97062

- 1. Please return this form to the regional office in which the site is located. If you have questions, call the contact person in your regional office.
- 2. For all tanks, except heating oil tanks, you must submit an UST Decommissioning Checklist and Site Assessment Report to the appropriate regional office within 30 days of the UST decommissioning. Failure to do so can result in delays to your project and may result in continued billing for the annual tank permit fees.
  - 3. Addresses and phone numbers for the regional offices can be found in the UST Cleanup Manual or viewed and downloaded from this DEQ Webpage: http://www.deg.state.or.us/about/locations.htm
- 4. Copies of the UST Cleanup Manual and other UST program forms and checklists can be viewed and downloaded from DEQ's Website: http://www.deg.state.or.us/lg/tanks/ust/index.htm

or in the Portland area by calling Steve Paiko at 503-229-6652

or outside the Portland area leaving a message on the UST Help Line (toll-free in Oregon) at 1-800-742-7878

#### KEEP A COPY OF THIS REPORT FOR YOUR FACILITY RECORDS

DEQ-05-LQ-089A Page 4 of 4 January 2008



9185 South Farmer Avenue, Suite 107 Tempe, Arizona 85284 www.atcassociates.com 480.894.2056 fax 480.894.2497

September 13, 2007

Mr. Max Boone ConocoPhillips Company 1230 W. Washington St., Suite 212 Tempe, AZ 85281

RE: Due Diligence Site Assessment Report ConocoPhillips Site No. 255216 11400 Southwest Beaverton-Hillsdale Highway Beaverton, Oregon ATC Project No. 34.75118.3003



Dear Mr. Boone:

ATC Associates Inc. (ATC) on behalf of ConocoPhillips Company (ConocoPhillips) presents the results of a Due Diligence Site Assessment conducted at the above-referenced site. The purpose of the investigation was to generate a baseline assessment of property conditions at the time of property transfer. The data reported herein were collected on behalf of ConocoPhillips, in general accordance with the Site-Specific Scope of Work (SOW) prepared by Shaw Environmental & Infrastructure, Inc. (Shaw) dated May 23, 2007. The data reported herein were not requested or required by a regulatory agency.

Activities included in the SOW performed are outlined below:

- Preparation of a site specific Health and Safety Plan (HASP);
- Securing permits, if applicable, from the local permitting agency to advance the borings;
- Marking soil boring locations, notification to Oregon's One-Call center, and contracting a private utility locating service to locate any identifiable underground utilities in the vicinity of the proposed boring locations;
- Air-knifing borings to five feet below ground surface (bgs) to a diameter at least one inch greater than that of the drilling device;
- Advancement of four exploratory soil borings to total depths of 20 feet bgs;
- Collection of soil samples at approximate five-foot intervals for purposes of logging subsurface conditions, field detection of organic vapors using a photoionization detector (PID), and potential laboratory analysis;
- Collection of a groundwater sample for laboratory analysis from each boring;
- Waste profiling and disposal coordination (still underway); and
- Preparation of a report summarizing due diligence assessment activities.

#### SITE DESCRIPTION

The site is an active service station located at 11400 Southwest Beaverton-Hillsdale Highway in Beaverton, Oregon. The site's current underground storage tank (UST) system configuration includes two fuel USTs and two dispenser islands. Limited background information is included in the SOW prepared by Shaw (Appendix A, attached).

#### **BASELINE SITE ASSESSMENT**

#### **Field Activities**

On July 20, 2007, ATC personnel observed the advancement of four soil borings (B-1, B-2, B-3 and B-4) in the vicinity of the existing fuel USTs and dispensers using geoprobe drilling equipment. Approximate boring locations are shown on attached Figure 1, Site Plan. Each borings was advanced to a depth of 20 feet bgs. Soil samples were collected at approximate five-foot intervals for lithological description, field screening using a PID, and for possible laboratory analysis. Depth to groundwater measurements indicated groundwater had entered boring B-1 to a depth of 4.45 feet bgs, boring B-2 to a depth of 5.80 feet bgs and boring B-3 to a depth of six feet bgs. Groundwater in boring B-4 was encountered between 10 and 15 feet bgs during drilling activities; an exact depth to groundwater measurement was not collected from this boring after drilling was complete. A groundwater sample was collected from each boring once total depth was reached.

Upon collecting a soil sample at each depth interval, the soil was visually examined and classified in accordance with the Unified Soil Classification System (USCS). Field PID readings were also used to monitor the soils for volatile organic compound (VOC) vapors. A description of the lithology encountered and PID readings obtained are presented on the boring logs included as Appendix B, attached.

Upon completion of drilling, the borings were backfilled to approximately one foot bgs with bentonite grout. Once the level of the sealing mixture had reached a level of one foot bgs, concrete was emplaced in the borehole, finished flush with the existing surface grade and dyed if necessary to match surrounding conditions.

#### **Laboratory Analytical Procedures**

Soil and groundwater samples collected during field activities were shipped under chain-of-custody (COC) protocol to Lancaster Laboratories, Inc. (Lancaster) in Lancaster, Pennsylvania. Lancaster is certified through the Oregon Laboratory Accreditation Program. Groundwater samples and select soil samples collected from the borings were analyzed for fuel oxygenates and halogenated volatile organic compounds (HVOC; including benzene, toluene, ethylbenzene and total xylenes [BTEX]) using Environmental Protection Agency (EPA) Method 8260B. Each sample selected was also analyzed for gasoline-, diesel- and oil- range petroleum hydrocarbons (TPH-g [ $C_8$  to  $C_{12}$ ], TPH-d [ $C_{12}$  to  $C_{24}$ ] and TPH-o [ $C_{>24}$  to  $C_{40}$ ], respectively) using Northwest Total Petroleum Hydrocarbons (NWTPH), Modified method. Laboratory analytical data for soil

ConocoPhillips Site No. 255216 September 13, 2007 Page 3

and groundwater samples analyzed as part of this assessment are summarized in attached Table 1, Summary of Soil Analytical Data and Table 2, Summary of Groundwater Analytical Data, respectively. The laboratory analytical report and COC document are provided as Appendix C, attached.

#### Waste Disposal

Investigation derived waste (IDW) generated during the field operations has been temporarily stored onsite pending characterization and disposal. A copy of the waste manifest(s) will be provided under separate cover once the IDW has been profiled and transported to an appropriate disposal facility.

#### **FINDINGS**

The lithology underlying the site generally consists of silty clay and clayey sand from the ground surface to approximately 20 feet bgs, the maximum extent of exploration. PID readings ranged from 1.0 to 6.2 parts per million (ppm). Refer to the edited boring logs in Appendix B for a summary of field observations noted during drilling activities.

As shown in Table 1, laboratory analytical results for the soil samples selected for analysis indicate the following:

- Toluene was detected at a concentration of 0.008 milligrams per kilogram (mg/kg) in the soil sample collected at approximately 10 feet bgs from boring B-3 (B-3-10).
- No other analytes were detected in excess of their respective laboratory method Limit of Quantitation (LOQ) in the soil samples submitted for analysis.

As shown in Table 2, laboratory analytical results for the groundwater samples collected from each boring indicate the following:

- Methyl tert butyl ether was detected at a concentration of 6 micrograms per liter (μg/L) in the groundwater sample collected from boring B-3 (B-3) and at a concentration of 10 μg/L in the groundwater sample collected from boring B-4 (B-4).
- TPH-d was detected at a concentration of 11,000 μg/L in the groundwater sample collected from boring B-2 (B-2).
- No other analytes were detected in excess of their respective laboratory method LOQ in the groundwater samples submitted for analysis.

#### LIMITATIONS

This report was prepared in general accordance with the Shaw SOW dated May 23, 2007 and with generally accepted professional environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of ConocoPhillips for the express purpose of generating a baseline assessment of property conditions. Any re-use of this report for a different purpose shall be at the user's sole risk without liability to ATC. To the extent that this report is based on information provided to ATC

ConocoPhillips Site No. 255216 September 13, 2007 Page 4

by third parties, ATC may have made efforts to verify this third party information, however ATC cannot guarantee the completeness or accuracy of this information. The data collected during this investigation and summarized in this report represent site conditions at the time field activities were conducted. No other warranties, expressed or implied are made by ATC.

Prepared by:

Reviewed by:

Name: Keli Vandegrift
Title: Project Manager

Name: Girard E. Morgan, R.G. Title: Principal Geologist

The data presented by ATC in this document have been prepared under the supervision of and reviewed by the Licensed Professional whose signature appears below:

#### Licensed Approver:

GIRARD E MORGAN

EXIRES 2/28/08

G1410

GEOLOGIST

Girard E. Morgan, Oregon Registration No. G1410 Principal Geologist

#### **Attachments:**

Table 1 – Summary of Soil Analytical Data

Table 2 - Summary of Groundwater Analytical Data

Figure 1 - Site Plan

Appendix A – Scope of Work

Appendix B – Boring Logs

Appendix C - Laboratory Analytical Report and Chain-of-Custody Document

**TABLES** 

#### TABLE 1 SUMMARY OF SOIL ANALYTICAL DATA

ConocoPhillips Site No. 255216

11400 Southwest Beaverton-Hillsdale Highway, Beaverton, Oregon

Sample ID	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Other HVOC * (mg/kg)	Oxygenates * (mg/kg)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-0 (mg/kg)
	(rect bgs)	Date				EPA 8260B			NV	d	
B-1-10	10	07/20/07	< 0.007	< 0.007	< 0.007	< 0.014	All analytes ND.	All analytes ND.	<6.5	<9.1	<39
B-2-10	10	07/20/07	< 0.006	< 0.006	< 0.006	< 0.012	All analytes ND.	All analytes ND.	<6.5	<9.1	<39
B-3-10	10	07/20/07	< 0.006	0.008	< 0.006	< 0.012	All analytes ND.	All analytes ND.	<6.3	<8.9	<38
B-4-10	10	07/20/07	< 0.006	< 0.006	< 0.006	< 0.012	All analytes ND.	All analytes ND.	<6.3	<8.8	<38
	HVOC * TPH-g TPH-d TPH-o EPA NWTPH <0.007	<ul><li>Gasoline rar</li><li>Diesel range</li><li>Oil range or</li><li>Environmen</li><li>Northwest T</li></ul>	unds detected age organic hydroganic hydroca ganic hydroca tal Protection otal Petroleur	at a concentra drocarbons (Cocarbons (C ₁₂ : rbons (C _{&gt;24} -C Agency in Hydrocarbo	ation exceeding their $C_8$ - $C_{12}$ ). $-C_{24}$ ). $-C_{24}$ ).		y method Limit of Quai	ntitation (LOQ) are note	ed.		

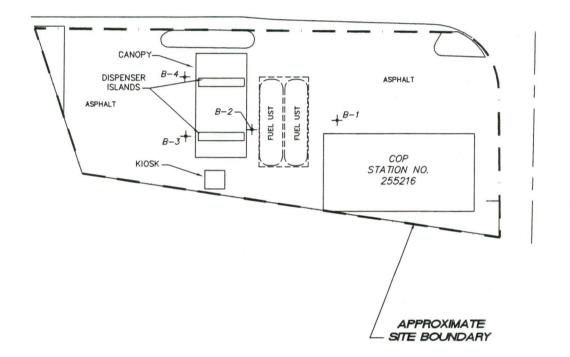
## TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL DATA

ConocoPhillips Site No. 255216 11400 Southwest Beaverton-Hillsdale Highway, Beaverton, Oregon

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Other HVOC * (µg/L)	Oxygenates * (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-0 (µg/L)		
					EPA 82	260B		NWTPH Me				
B-1	07/20/07	<5	<5	<5	<10	All analytes ND.	All analytes ND.	<250	<1,000	<2,000		
B-2	07/20/07	<5	<5	<5	<10	All analytes ND.	All analytes ND.	<250	11,000	<2,000		
B-3	07/20/07	<5	<5	<5	<10	All analytes ND.	Methyl tert butyl ether (6)	<250	<2,500	<5,000		
B-4	07/20/07	<5	<5	<5	<10	All analytes ND.	Methyl tert butyl ether (10)	<250	<2,500	<5,000		
Notes.	Notes: µg/L - Micrograms per liter (equivalent to parts per billion).  HVOC - Halogenated volatile organic compounds.  * - Only compounds detected at a concentration exceeding their respective laboratory method Limit of Quantitation (LOQ) are noted.  TPH-g - Gasoline range organic hydrocarbons (C ₈ -C ₁₂ ).  TPH-d - Diesel range organic hydrocarbons (C ₁₂ -C ₂₄ ).  TPH-o - Oil range organic hydrocarbons (C _{&gt;24} -C ₄₀ ).  EPA - Environmental Protection Agency  NWTPH - Northwest Total Petroleum Hydrocarbons  <5 - Analyte not detected above specific laboratory method LOQ.  ND - Analyte not detected above specific laboratory method LOQ.											

**FIGURE** 

-----SOUTHWEST BEAVERTON-HILLSDALE HIGHWAY---



LEGEND

+ SOIL BORING LOCATION



NOTE: LOCATIONS AND SCALE ARE APPROXIMATE

#### SITE PLAN

CONOCOPHILIPS SITE NO. 255216
11400 SOUTHWEST BEAVERTON-HILLSDALE HIGHWAY
BEAVERTON, OREGON



PROJECT NUMBER:	34.75118.3003	DATE: 8/28/07	FIGURE
APPROVED BY:	KV	DRAWN BY: BK	1

9185 S. Farmer Ave., Ste. #107 Tempe, Arizona 85284-2912 Ph: (480) 894-2056 *** Fax: (480) 894-2497 APPENDIX A
SCOPE OF WORK

### PROPOSED DIVESTITURE BASELINE PHASE II ASSESSMENT CONVERGED CONTRACTOR - SCOPE OF WORK

Site:

255216

Address:

11400 SW Beaverton-Hillsdale Highway near SW Griffith Drive

Beaverton, OR

#### SITE SUMMARY

Former Owner: Unocal

Site is equipped with two 12,000-gallon USTs and two product dispenser islands under a common canopy. Site investigation and groundwater monitoring were performed between 1990 and 2004. Depth to water in the second quarter of 2004 was between 2 and 5 feet below ground surface (bgs); groundwater flow direction was to the west. The Oregon Department of Environmental Quality issued a "No Further Action" letter in August 2005; the four groundwater monitoring wells at the site were subsequently abandoned in December 2005. Current depth to water and groundwater flow direction are not available.

Scope of Work to be performed at the site includes (see attached Figure):

- 2 borings (B-1, B-2) near the fuel USTs to maximum total depth of about 35 feet
- 2 borings (B-3, B-4) near product islands to maximum total depth of about 25 feet

If groundwater is encountered in any of the borings, the boring shall be extended a minimum of five feet into the saturated zone and a groundwater grab sample collected. The boring shall then be terminated at that depth.

Since groundwater at this site is likely to be encountered at a relatively shallow depth (e.g., 2 to 5 feet bgs in 2004), Contractor should plan on limited soil sampling, grab groundwater sampling, and limited total depth of borings. Contractor may elect to use alternative sampling methods (e.g., air knifing to the total depth of the borings) to complete the site investigation, as appropriate.

Contractor shall exercise added caution when performing boring B-2 between the fuel USTs and product dispenser islands.

#### PRE-DRILLING ACTIVITIES

- > After receiving this Scope of Work, develop requisition for submittal into ENFOS following procedure provided by COP.
- ➤ Identify, obtain, and prepare all necessary and relevant permits, work scope summaries, appropriate work plans, etc., in accordance with county and other specific local requirements. Oregon Department of Environmental Quality generally does not require the Contractor to submit work plans or obtain permits for exploratory borings or temporary wells. Drillers are required to submit completed borings logs to the State. For verification of compliance with state and local regulations, RM&R Area Manager (AM) will need confirmation of, or copies of required boring completion reports.
- > Prepare and review site specific safety plan (Program HASP and JSA) with Phase II field

team.

- Proposed changes to scope will be communicated to Shaw Consultant who will immediately notify the AM if such scope changes materially impact potential safety concern. For example, all bore hole locations will be cleared per RM&R process and that any and all departures form this protocol will have to be reviewed and approved by the AM.
- Schedule laboratory and obtain proper sample containers. Laboratory used must be COP converged laboratory.
- Shaw Consultant will be coordinating scheduling with Contractor and stakeholders per the "stakeholder engagement process". Prior to mobilization, Contractor must confirm date and time of site field activities with Shaw Consultant.
- > Provide notification to all individuals involved, laboratory, regulatory and/or permitting agencies.

#### **FIELD ACTIVITIES**

- > All field work shall be conducted according to RM&R processes and Health and Safety protocols.
- Mark the proposed boring locations and locate underground utilities where necessary using "dig alert".
- > Conduct all fieldwork in accordance with the site-specific health and safety plan prepared for this project.
- > Prior to drilling, clear the boring locations for underground utilities by using an air knife/vacuum to a depth of five feet below ground surface (bgs) and one inch greater than the diameter of the mechanized equipment that will be used downhole.
- Install soil borings and collect soil samples as proposed on attached Table and Figure. Choice of drilling method will give a priority to the minimization of waste. In addition, drilling methods should be appropriate for the site's geology so that "refusal", requiring re-mobilization, does not occur. Collect soil samples every five feet and screen with an Organic Vapor Meter (OVM). Submit the sample with the highest OVM reading and the sample from the terminal depth of each boring for lab analyses (see Sampling Analysis Table). If all samples from a boring show OVM readings of less than 25 ppmv, collect a soil sample just above saturated zone (capillary fringe), or at the maximum depth of the boring if groundwater is not encountered, for laboratory analyses.
- ➤ If suspected release is encountered, Contractor shall notify AM immediately before any required notification to state and local regulators and to discuss any possible changes to the scope of work. Myron Smith, AM, 602-645-2505 (office), 602-432-1578 (cell).
- > If groundwater is encountered prior to the total depth in the borings, the boring will be extended a minimum of five feet into the saturated zone and a groundwater grab sample will be collected and submitted for laboratory analyses as described on Page 2 and 3 of the General Scope of Work document.
- ➤ If respective State allows, dispose of investigative derived waste (IDW) on site (e.g. ground-spreading decon water). Otherwise store IDW, temporarily on-site in properly sealed and labeled, DOT-approved drums pending analytical results. Contractor shall coordinate with store manager for an appropriate location to store the drums.

- > Arrange for profiling of drum contents and removal from the Site for disposal in accordance with applicable regulations and within 45 days of drilling per RM&R waste authorization process.
- > Inspect site to ensure proper closure, security, etc., of wells, borings, and other site disruption issues and obtain concurrence from site personnel. The Contractor is responsible for ensuring the site is left in a clean and neat condition.
- > These investigations will be conducted at sites which are active commercial operations.

  The Contractor is responsible for ensuring that the investigation is conducted in a manner such that it causes as little disruption as possible to the business being conducted on the site.
- > Contractor will enter near misses and incidents into Impact.

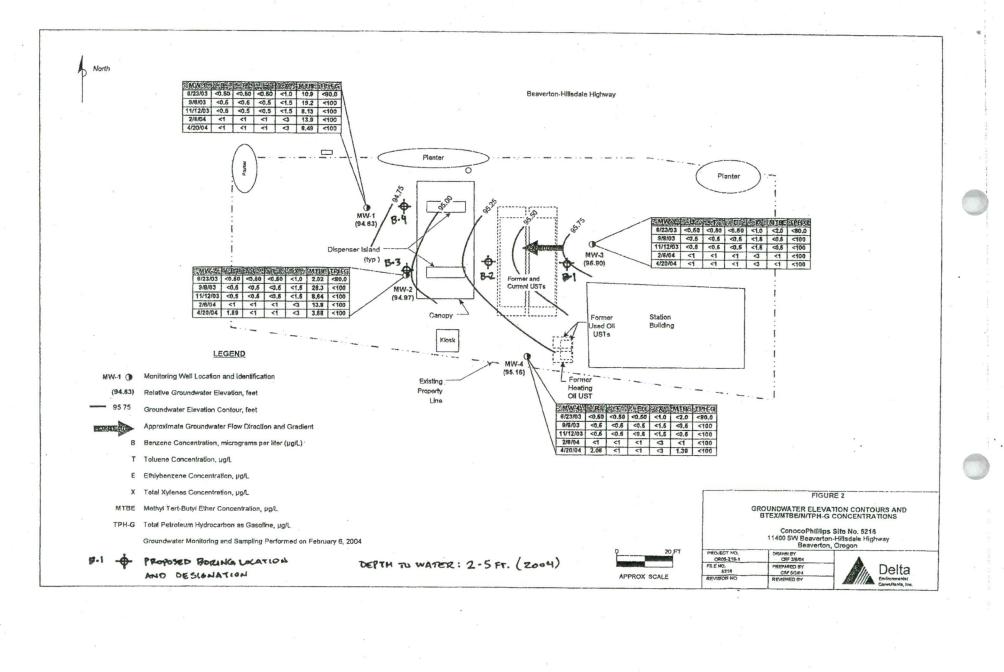
#### POST-DRILLING ACTIVITIES

- Complete due diligence report in format as provided by ConocoPhillips (COP). Complete any required agency reports. Contractor shall deliver report and agency reports in electronic format to Shaw Consultant for review and upload to COP database.
- ➤ Upon receiving sample results higher than detection levels, provide immediate notification to AM prior to submitting due diligence report to discuss possible notification to state and local regulators. Myron Smith, AM, 602-645-2505 (office), 602-432-1578 (cell).

### ConocoPhillips Marketing Divestiture 2007 Phase II Due Diligence

### Sampling Analysis Table

		Lab	oratory Analy	tical Parar	meters & M	lethods fo	or Soil an	d Ground	lwater	-
Sample Location	BTEX	TPH-g	Oxygenates	Ethanol	HVOC's	TPH-t	TPH-d	ТРН-о	SVOCs	CAM Metals
			(8260B)				(8015M)		(8270)	(6010B)
Underground Fuel Storage Tank Complex (B-1, B-2) & Dispenser Islands (B-3, B-4)	Х	Х	X	Х	х		Х			
						<b>s</b> .				
					<u> </u>					
				3						



APPENDIX B
BORING LOGS

M	AJOR DIVISIO	NS		ROUP MBOLS	TYPICAL NAMES		Undisturbed	Sample		Auger Cutting	gs	
		CLEAN GRAVELS		GW	Well graded gravels, gravel - sand mixtures, little or no fines.	X	Split Spoon	Sample		Bulk Sample		
	GRAVELS (More than 50% of coarse fraction is	(Little or no fines)		GP	Poorly graded gravels or grave - sand mixtures, little or no fines.	Rock Core				Modified Cal	Modified California Ring	
COARSE GRAINED SOILS (More than 50% of material is LARGER than No. 200 sieve	LARGER than the No. 4 sieve size)	GRAVELS WITH FINES		GM	Silty gravels, gravel - sand - silt mixtures.		Dilatometer		· ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^	Pressure Met	er	
		(Appreciable amount of fines)		GC	Clayey gravels, gravel - sand - clay mixtures.		Packer			O No Recovery		
	SANDS	CLEAN SANDS		sw	Well graded sands, gravelly sands, little or no fines.	$\bar{\Delta}$	Water Table drilling	at time of	Ā	Water Table	after 24 hours	
	(More than 50% of coarse fraction is	The state of the s		SP	Poorly graded sands or gravelly sands, little or no fines.							
	SMALLER than the No. 4 Sieve Size)	SANDS WITH FINES		SM	Silty sands, sand - silt mixtures							
		(Appreciable amount of fines)		SC	Clayey sands, sand - clay mixtures.							
				ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts and with slight plasticity.				etration Resistance ity and Consistency			
		ID CLAYS		CL	Inorganic lays of low to medium plasticity, gravelly clays, sandy clays,		SAND 8	& GRAVEL		SILT &	CLAY	
FINE	(Liquid limit)	LESS than 50)			silty clays, lean clays.		No. of Blows	Relative Density	N	No. of Blows	Consistency	
GRAINED				OL	Organic silts and organic silty clays of		0 - 4	Very Loose		0 - 1	Very Soft	
SOILS (More than 50% of					low plasticity.	$\perp$	5 - 10	Loose		2 - 4	Soft	
material is				МН	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils,		11 - 30	Medium Dense		5 - 8	Medium Stiff	
SMALLER than No. 200 sieve			$\mathbf{JJJ}$		elastic silts.	_	31 - 50	Dense		9 - 15	Stiff	
No. 200 sieve size)		D CLAYS		СН	Inorganic clays of high plasticity, fat		Over 50	Very Dense		16 - 30	Very Stiff	
· ·	(Liquid limit GR	REATER than 50)			clays	$\perp$				Over 31	Hard	
				ОН	Organic clays of medium to high plasticity, organic silts.							

Peat and other highly organic soils.

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols.

PT

HIGHLY ORGANIC SOILS

SILT OR CLAY	S	SAND		GRA		Cabblas	Dauldam
SILT OR CLAT	Fine	Medium	Coarse	Fine	Coarse	Coobles	Boulders
	110.200	.40 No.	10 No		4" 3	3" 12	2"

Reference: The Unified Soil Classification System, Corps of Engineers, U.S. Army Technical Memorandum No. 3-357, Vol. 1, March, 1953 (Revised April, 1960)

# KEY TO SYMBOLS AND DESCRIPTIONS



9185 South Farmer Avenue, Suite105 Tempe, Arizona 85284 Phone: 480-894-2056 Fax: 480-894-2497

Client Con	e ConocoF	Phillips Site	No. 25	5216	_ Drill Contracto	Geoprobe	Orilling Inc.	Elevation (ft amsl)	SHEET 1 OF
Number 34					_ Drilling Starte		Ended 7/20/07	Total Depth _20.0	
Location 1	1400 SW Be	eaverton-Hi	lisdale h	dwy. *	_ Logged By _h	Kevin Miller		Depth To Water _ <u>▼</u>	AD 4.5
DEPTH SAM	IPLE S.	PID (ppm)	nscs	LITHOLOGY			DESCRIPTION		DEPTH
5 —	CT 3-1-5	1.0	CL ML	SIL	TY CLAY. 75% c	olay, 25% silt.	Gray to brown. Mediu	um plasticity. Damp.	5
10 — B	CT 1-10	1.2		CLA		√ sand, 30% o	llay. Very fine grained.	Yellow to brown. Damp.	- 10 -
15 — B-	CT 1-15	1.1	SC						- - 15 -
20 — B-	CT 1-20	2.0 -		Gray	to brown. Moist		Bottom of hole at 20	feet	20
-								i	-
			Tempe, Phone:	rmer Ave Arizona 8 480.894.	, Ste 107 85284 2056	emarks : *Be	averton, OR. Groundwa	ater entered boring to 4.45' bgs	after drilling.

	ConocoPhil					Drill Contractor Cascade Drilling Inc.	LOG OF BO	ORING	
	Name Cor		lips Site	No. 2	55216	Drill Method Geoprobe	Elevation (ft amsl)	-	
	er <u>34.75118</u>			-		Drilling Started 7/20/07 Ended 7/20/07	Total Depth 20.0	_	
Location	on 11400 S	W Beave	erton-Hil	Isdale	Hwy.	Logged By Kevin Miller	Depth To Water	AD 5.	.8
DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	nscs	LITHOLOGY	DESCRIPTION			DEPTH FEET
5 — 10 — 15 — 20 — -	CT B-2-10  CT B-2-15	8	5.6 6.2	CLML		CLAYEY SAND. 75% sand, 25% clay. Very fine grained. Yes  Vet.  Bottom of hole at 20 feet			- 5 5 10 15 20
-				8					
_				14				-	-



9185 S. Farmer Ave., Ste 107 Tempe, Arizona 85284 Phone: 480.894.2056 Fax: 480.894.2497 Remarks: *Beaverton, OR. Groundwater entered boring to 5.80' bgs after drilling.

See key sheet for symbols and abbreviations used above.

LOG A EWINN05 255216 BORING LOGS.GPJ LOG A EWINN05.GDT 9/13/07

Client	ConocoPhi	llips Con	npany			Drill Contractor Cascade Drilling Inc.	LOG O	F B		
Projec	t Name _Cor	nocoPhil	lips Site	No. 25	55216	Drill Method Geoprobe	Elevation (ft amsl)		SHEE	T 1 OF 1
Numbe	er _34.75118	3.3003				Drilling Started 7/20/07 Ended 7/20/07	Total Depth 20.0			
Location	on 11400 S	W Beav	erton-Hil	Isdale	Hwy.	Logged By Kevin Miller	Depth To Water	<u></u>	AD 6	6.0
DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	nscs	LITHOLOGY	DESCRIPTION			W	DEPTH
5 —	CT B-3-5		4.1	CL ML		SILTY CLAY. 80% clay, 20% silt. Gray to brown. Moderate to	o high plasticity. Dan	np.		5
10 —	CT B-3-10		2.4			CLAYEY SAND. 70% sand, 30% clay. Very fine grained. Lig	ht brown. Damp.			- - - 10
15 —	CT B-3-15		1.5	SC		Wet.				_ _ _ 15
20 —	CT B-3-20		2.2			Moist.  Bottom of hole at 20 feet				20
		-				Remarks : *Beaverton, OR. Groundwater e	entared baring to 61 be	o ofto-	drillina	



LOG A EWNN05 255216 BORING LOGS.GPJ LOG A EWNN05.GDT 9/13/07

9185 S. Farmer Ave., Ste 107 Tempe, Arizona 85284 Phone: 480.894.2056 Fax: 480.894.2497

See key sheet for symbols and abbreviations used above.

Client	ConocoPhi	llips Con	npany			Drill Contractor Cascade Drilling Inc.	IG B-4 ET 1 OF 1
Projec	Name Cor	nocoPhil	llips Site	No. 2	55216	Drill Method Geoprobe Elevation (ft amsl)	ETTOFT
Numbe	er _34.75118	8.3003				Drilling Started 7/20/07 Ended 7/20/07 Total Depth 20.0	
Location	on _11400 S	W Beav	erton-Hil	Isdale	Hwy.	* Logged By Kevin Miller Depth To Water	
DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	NSCS	LITHOLOGY	DESCRIPTION	DEPTH
5 —	CT B-4-5		2.9	CL ML		SILTY CLAY. 75% clay, 25% silt. Gray to brown. High plasticity. Moist.	-5
10 —	CT B-4-10		3.3			Medium plasticity.  CLAYEY SAND. 75% sand, 25% clay. Very fine grained. Olive brown to grayish brown. Wet.	— 10 — -
15 —	CT B-4-15		2.8	SC			- - 15 -
20 —	CT B-4-20		1.9 -			Bottom of hole at 20 feet	20
$\perp$							



9185 S. Farmer Ave., Ste 107 Tempe, Arizona 85284 Phone: 480.894.2056 Fax: 480.894.2497 Remarks: *Beaverton, OR. Groundwater encountered between 10 and 15 feet bgs during drilling. Depth to groundwater measurement not collected.

See key sheet for symbols and abbreviations used above.

LOG A EWNN05 255216 BORING LOGS.GPJ LOG A EWNN05.GDT 9/13/07

### APPENDIX C

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENT



2425 New Holland Pike. PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

#### ANALYTICAL RESULTS

Prepared for:

ConocoPhillips Suite 212 1230 W. Washington Tempe AZ 85281

602-452-2502

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

#### **SAMPLE GROUP**

The sample group for this submittal is 1048024. Samples arrived at the laboratory on Saturday, July 21, 2007. The PO# for this group is 4508536074 and the release number is BOONE.

Client Description	n		Lancaster Labs Number
B-4-10	Grab	Soil	5109029
B-4	Grab	Water	5109030
B-3-10	Grab	Soil	5109031
B-3	Grab	Water	5109032
B-2-10	Grab	Soil	5109033
B-2	Grab	Water	5109034
B-1-10	Grab	Soil	5109035
B-1	Grab	Water	5109036

ELECTRONIC COPY TO

ATC Associates, Inc.

Attn: Keli Vandegrift



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300, Fax: 717-656-2681 • www.lancasterlahs.com

Questions? Contact your Client Services Representative Megan A Moeller at (717) 656-2300

Respectfully Submitted,

Melissa A. McDermott Senior Chemist

Melissa a Mc Sermott



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 3

Lancaster Laboratories Sample No. SW 5109029

B-4-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 07:45

by KM

Account Number: 12258

.....

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

ConocoPhillips

Suite 212

1230 W. Washington

Tempe AZ 85281

				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
00111	Moisture	n.a.	20.3	0.50	0.50	8	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of moisture res	the sample af ult reported a	ter oven drying bove is on an	at		
02005	TPH by NWTPH-Gx soils						
01659	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	6.3	mg/kg	25
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	N.D.	3.8	8.8	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	38.	mg/kg	1
03983	EPA SW 846/8260 - Soil						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.006	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	0.006	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.006	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.006	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.025	0.12	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.12	0.62	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.006	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.006	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.002	0.012	mg/kg	1
05441	EPA SW846/8260 (soil)						
05444	Chloromethane	74-87-3	N.D.	0.002	0.006	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	0.006	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.002	0.006	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.002	0.006	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.002	0.006	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.006	mg/kg	1
05450	Methylene Chloride	75-09-2	0.005 J	0.002	0.006	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.006	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.006	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.006	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	0.006	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.006	mg/kg	1

^{*=}This limit was used in the evaluation of the final result



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 *717-656-2300 Fax:717-656-2681 * www.lancasterlabs.com

Page 2 of 3

Lancaster Laboratories Sample No. SW 5109029

B-4-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 07:45

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

ConocoPhillips Suite 212

1230 W. Washington

Tempe AZ 85281

BVRT6

DVICIO				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.006	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0006	0.006	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.006	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	0.006	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.006	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	0.006	mg/kg	1
05466	Toluene	108-88-3	0.003 J	0.001	0.006	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.006	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	0.006	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	0.006	mg/kg	1
05472	Chlorobenzene	108-90-7	N.D.	0.001	0.006	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	0.006	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	0.006	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	0.006	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	0.006	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.006	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.006	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.006	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.006	mg/kg	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

		Laboratory	CIIIO	IIICIE		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00111	Moisture	SM20 2540 G	1	07/24/2007 18:02	Scott W Freisher	1
02005	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	07/23/2007 17:29	Linda C Pape	25
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/26/2007 01:57	Glorines Suarez- Rivera	1
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	07/25/2007 19:52	Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	07/25/2007 19:52	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	07/25/2007 17:24	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	07/23/2007 09:02	Suzanne E Beisel	n.a.

^{*=}This limit was used in the evaluation of the final result



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by KM

Page 3 of 3

5109029 Lancaster Laboratories Sample No. SW

B-4-10

Grab Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 07:45

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212

Discard: 09/06/2007

1230 W. Washington Tempe AZ 85281

07024 DRO Alternate Soil Extraction

ECY 97-602 NWTPH-Dx 06/97

1 07/24/2007 09:30 Ineabelle Poveda

^{*=}This limit was used in the evaluation of the final result



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Page 1 of 3

Lancaster Laboratories Sample No. WW 5109030

B-4

Grab Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 08:05

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips

Reported: 08/06/2007 at 17:12

Suite 212 1230 W. Washington Tempe AZ 85281

Discard: 09/06/2007

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095 02096	Diesel Range Organics Heavy Range Organics Due to the nature of the sample for analysis. The reporting 1:				2,500.	ug/l ug/l	1
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters The vial submitted for volatile of analysis. Due to the volat: appropriate for the laboratory receipt. The pH of this sample	ile nature of to adjust the	the analytes,	it is not	250.	ug/l	1
05382	EPA SW846/8260 (water)						
05385	Chloromethane	74-87-3	N.D.	1.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	5.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	5.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	5.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	5.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	5.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 5109030

B-4

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 08:05

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington Tempe AZ 85281

Discard: 09/06/2007

6BVRT

PRAKI							
				As Received	As Received		
CAT			As Received	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.8	5.	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
08202	EPA SW 846/8260 - Water						
01587	Ethanol	64-17-5	N.D.	50.	250.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	10.	0.5	5.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.8	5.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.8	5.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.8	5.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	10.	80.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	10.	ug/l	1

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 6.

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No. 02211

Analysis Name

TPH by NWTPH-Dx(water) w/SiGel

ECY 97-602 NWTPH-Dx modified

Analysis Trial# Date and Time

1 07/27/2007 04:55

Glorines Suarez-Rivera

Dilution Factor

^{*=}This limit was used in the evaluation of the final result



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Page 3 of 3

Lancaster	Laboratories	Sample	NO.	WW	5109030

B-4 Grab Water Site# 255216 11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 08:05 by KM Account Number: 12258

 Submitted: 07/21/2007 09:30
 ConocoPhillips

 Reported: 08/06/2007 at 17:12
 Suite 212

 Discard: 09/06/2007
 1230 W. Washington

 Tempe A7 85281

			T	empe AZ 85281		
6BVRT				-		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	07/24/2007 13:42	Steven A Skiles	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/02/2007 19:17	Emiley A King	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/02/2007 19:17	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/24/2007 13:42	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/02/2007 19:17	Emiley A King	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	07/25/2007 19:45	Elaine F Stoltzfus	1
	*					

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. SW 5109031

B-3-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 08:50

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

ConocoPhillips

Suite 212

1230 W. Washington

Tempe AZ 85281

				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
00111	Moisture	n.a.	21.1	0.50	0.50	9	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.				at		
02005	TPH by NWTPH-Gx soils						
01659	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	6.3	mg/kg	25
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	N.D.	3.8	8.9	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	38.	mg/kg	1
						200	
03983	EPA SW 846/8260 - Soil						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.006	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	0.006	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.006	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.006	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.026	0.13	mg/kg	1.01
06089	Ethanol	64-17-5	N.D.	0.13	0.64	mg/kg	1.01
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.006	mg/kg	1.01
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.006	mg/kg	1.01
08199	Freon 113	76-13-1	N.D.	0.003	0.013	mg/kg	1.01
05441	EPA SW846/8260 (soil)						
05444	Chloromethane	74-87-3	N.D.	0.003	0.006	mg/kg	1.01
05445	Vinyl Chloride	75-01-4	N.D.	0.001	0.006	mg/kg	1.01
05446	Bromomethane	74-83-9	N.D.	0.003	0.006	mg/kg	1.01
05447	Chloroethane	75-00-3	N.D.	0.003	0.006	mg/kg	1.01
05448	Trichlorofluoromethane	75-69-4	N.D.	0.003	0.006	mg/kg	1.01
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.006	mg/kg	1.01
05450	Methylene Chloride	75-09-2	N.D.	0.003	0.006	mg/kg	1.01
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.006	mg/kg	1.01
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.006	mg/kg	1.01
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.006	mg/kg	1.01
05455	Chloroform	67-66-3	N.D.	0.001	0.006	mg/kg	1.01
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.006	mg/kg	1.01

^{*=}This limit was used in the evaluation of the final result



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Page 2 of 3

Lancaster Laboratories Sample No. SW 5109031

B-3-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 08:50 by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

ConocoPhillips Suite 212

1230 W. Washington

Tempe AZ 85281

BVRT3

				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.006	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0006	0.006	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.006	mg/kg	1.01
05462	Trichloroethene	79-01-6	N.D.	0.001	0.006	mg/kg	1.01
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.006	mg/kg	1.01
05465	Bromodichloromethane	75-27-4	N.D.	0.001	0.006	mg/kg	1.01
05466	Toluene	108-88-3	0.008	0.001	0.006	mg/kg	1.01
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.006	mg/kg	1.01
05468	Tetrachloroethene	127-18-4	N.D.	0.001	0.006	mg/kg	1.01
05470	Dibromochloromethane	124-48-1	N.D.	0.001	0.006	mg/kg	1.01
05472	Chlorobenzene	108-90-7	N.D.	0.001	0.006	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	0.006	mg/kg	1.01
05475	m+p-Xylene	1330-20-7	N.D.	0.001	0.006	mg/kg	1.01
05476	o-Xylene	95-47-6	N.D.	0.001	0.006	mg/kg	1.01
05478	Bromoform	75-25-2	N.D.	0.001	0.006	mg/kg	1.01
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.006	mg/kg	1.01
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.006	mg/kg	1.01
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.006	mg/kg	1.01
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.006	mg/kg	1.01

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

	Lazoracory	CIII O	111010		
	_		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Moisture	SM20 2540 G	1	07/24/2007 18:02	Scott W Freisher	1
TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	07/23/2007 18:09	Linda C Pape	25
TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/26/2007 02:16	Glorines Suarez- Rivera	1
EPA SW 846/8260 - Soil	SW-846 8260B	1	07/25/2007 20:15	Nicholas R Rossi	1.01
EPA SW846/8260 (soil)	SW-846 8260B	1	07/25/2007 20:15	Nicholas R Rossi	1.01
GC/MS - Bulk Sample Prep	SW-846 5030A	1	07/25/2007 17:20	Sara E Wolf	n.a.
GC - Bulk Soil Prep	SW-846 5030A	1	07/23/2007 09:04	Suzanne E Beisel	n.a.
	Moisture TPH by NWTPH-Gx soils  TPH by NWTPH-Dx(soils) w/SiGel EPA SW 846/8260 - Soil EPA SW846/8260 (soil) GC/MS - Bulk Sample Prep	Analysis Name  Moisture  TPH by NWTPH-Gx soils  TPH by NWTPH-Dx(soils)  W/SiGel  EPA SW 846/8260 - Soil  EPA SW846/8260 (soil)  GC/MS - Bulk Sample Prep  Method  ECY 97-602 NWTPH-Gx modified  ECY 97-602 NWTPH-Dx modified  SW-846 8260B  SW-846 8260B  SW-846 8260B  SW-846 8260B  SW-846 5030A	Analysis Name Method Trial#  Moisture SM20 2540 G 1  TPH by NWTPH-Gx soils ECY 97-602 NWTPH-Gx 1  modified TPH by NWTPH-Dx(soils) ECY 97-602 NWTPH-Dx 1  w/SiGel modified  EPA SW 846/8260 - Soil SW-846 8260B 1  EPA SW846/8260 (soil) SW-846 8260B 1  GC/MS - Bulk Sample Prep SW-846 5030A 1	Analysis Name         Method         Trial#         Date and Time           Moisture         SM20 2540 G         1 07/24/2007 18:02           TPH by NWTPH-Gx soils         ECY 97-602 NWTPH-Gx 1 07/23/2007 18:09 modified           TPH by NWTPH-Dx(soils)         ECY 97-602 NWTPH-Dx 1 07/26/2007 02:16           w/SiGel         modified           EPA SW 846/8260 - Soil         SW-846 8260B         1 07/25/2007 20:15           EPA SW846/8260 (soil)         SW-846 8260B         1 07/25/2007 20:15           GC/MS - Bulk Sample Prep         SW-846 5030A         1 07/25/2007 17:20	Analysis Name Method Trial# Date and Time Analyst  Moisture SM20 2540 G 1 07/24/2007 18:02 Scott W Freisher  TPH by NWTPH-Gx soils ECY 97-602 NWTPH-Gx 1 07/23/2007 18:09 Linda C Pape modified  TPH by NWTPH-Dx(soils) ECY 97-602 NWTPH-Dx 1 07/26/2007 02:16 Glorines Suarez- w/SiGel modified Rivera  EPA SW 846/8260 - Soil SW-846 8260B 1 07/25/2007 20:15 Nicholas R Rossi  EPA SW846/8260 (soil) SW-846 8260B 1 07/25/2007 20:15 Nicholas R Rossi  GC/MS - Bulk Sample Prep SW-846 5030A 1 07/25/2007 17:20 Sara E Wolf

^{*=}This limit was used in the evaluation of the final result



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Page 3 of 3

Lancaster Laboratories Sample No. SW 5109031

B-3-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 08:50 by KM

Submitted: 07/21/2007 09:30 Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

BVRT3 DRO Alternate Soil 07024

Extraction

Account Number: 12258

ConocoPhillips

Suite 212

1230 W. Washington

Tempe AZ 85281

ECY 97-602 NWTPH-Dx 1 07/24/2007 09:30 Ineabelle Poveda 06/97

^{*=}This limit was used in the evaluation of the final result



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Page 1 of 3

Lancaster Laboratories Sample No. WW 5109032

B-3

Grab Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 09:05

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

				As Received	As Received		
CAT			As Received	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095	Diesel Range Organics	n.a.	N.D.	800.	2,500.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	1,000.	5,000.	ug/l	1
	Due to the nature of the sample						
	for analysis. The reporting 1:	imits were ra:	ised according	ly.			
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	120. J	50.	250.	ug/l	1
	The vial submitted for volatile					49/1	-
	of analysis. Due to the volat:						
	appropriate for the laboratory		4				
	receipt. The pH of this sample	e was $pH = 6$ .					
05382	EPA SW846/8260 (water)						
05385	Chloromethane	74 - 87 - 3	N.D.	1.	5.	ug/l	1
05386 05387	Vinyl Chloride Bromomethane	75-01-4	N.D.	1.	5.	ug/l	1
05387	Chloroethane	74-83-9	N.D.	1.	5.	ug/l	1
05388	Trichlorofluoromethane	75-00-3	N.D.	1.	5.	ug/l	1
05389	1,1-Dichloroethene	75-69-4	N.D.	2.	5.	ug/l	1
05390	Methylene Chloride	75-35-4	N.D.	0.8	5.	ug/l	1
05391	trans-1,2-Dichloroethene	75-09-2	N.D.	2.	5.	ug/l	1
05392	1,1-Dichloroethane	156-60-5	N.D.	0.8	5.	ug/l	1
05393	cis-1,2-Dichloroethene	75-34-3	N.D.	1.	5.	ug/l	1
05395	Chloroform	156-59-2	N.D.	0.8	5.	ug/l	1
05396	1,1,1-Trichloroethane	67-66-3	N.D.	0.8	5.	ug/l	1
05398	Carbon Tetrachloride	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Benzene	56-23-5	N.D.	1.	5.	ug/l	1
05401	1,2-Dichloroethane	71-43-2	N.D.	0.5	5.	ug/l	1
05402	Trichloroethene	107-06-2	N.D.	1.	5.	ug/l	1
05404		79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane Bromodichloromethane	78-87-5	N.D.	1.	5.	ug/l	1
05406	Toluene	75-27-4	N.D.	1.	5.	ug/l	1
05407		108-88-3	N.D.	0.7	5.	ug/l	1
05408	1,1,2-Trichloroethane Tetrachloroethene	79-00-5	N.D.	0.8	5.	ug/l	1
03409	recracifforbethene	127-18-4	N.D.	0.8	5.	ug/l	1

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 5109032

B-3

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 09:05

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington Tempe AZ 85281

Discard: 09/06/2007

3BVRT

				As Received	As Received		
CAT			As Received	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.8	5.	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
08202	EPA SW 846/8260 - Water						
01587	Ethanol	64-17-5	N.D.	50.	250.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	6.	0.5	5.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.8	5.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.8	5.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.8	5.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	10.	80.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	10.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

			CIII C.	111010		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/27/2007 00:23	Glorines Suarez- Rivera	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	07/24/2007 14:11	Steven A Skiles	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/02/2007 15:03	Emiley A King	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/02/2007 15:03	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/24/2007 14:11	Steven A Skiles	1

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW

B-3

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 09:05 by KM

Grab

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

ConocoPhillips

Suite 212

1230 W. Washington

Tempe AZ 85281

01163 GC/MS VOA Water Prep 02135

Extraction - DRO Water

SW-846 5030B

08/02/2007 15:03 Emiley A King 1 07/25/2007 19:10 Mitchell B Crawford

Special

ECY 97-602 NWTPH-Dx 06/97

*=This limit was used in the evaluation of the final result



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Page 1 of 3

Lancaster Laboratories Sample No. SW 5109033

B-2-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 10:05

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington Tempe AZ 85281

Discard: 09/06/2007

				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
00111	Moisture	n.a.	22.9	0.50	0.50	96	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.				at		
02005	EDII ha NEEDII Car coile						
02005	TPH by NWTPH-Gx soils						
01659	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	6.5	mg/kg	25
02214	TPH by NWTPH-Dx(soils)						
	w/SiGel						
00007	Discoul Dance Consultan					/1	
02097	Diesel Range Organics	n.a.	N.D.	3.9	9.1	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	39.	mg/kg	1
03983	EPA SW 846/8260 - Soil						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0006	0.006	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	0.006	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.006	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.006	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.026	0.13	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.13	0.65	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.006	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.006	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.003	0.013	mg/kg	1
05441	EPA SW846/8260 (soil)						
05444	Chloromethane	74-87-3	N.D.	0.003	0.006	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	0.006	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.003	0.006	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.003	0.006	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.003	0.006	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.006	mg/kg	1
05450	Methylene Chloride	75-09-2	0.005	0.003	0.006	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.006	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.006	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.006	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	0.006	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.006	mg/kg	1

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. SW 5109033

B-2-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 10:05 by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12 Discard: 09/06/2007

1230 W. Washington

Tempe AZ 85281

BVRT2

CAT			Dry	Dry Method	Dry Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.006	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0006	0.006	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.006	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	0.006	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.006	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	0.006	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	0.006	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.006	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	0.006	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	0.006	mg/kg	1
05472	Chlorobenzene	108-90-7	N.D.	0.001	0.006	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	0.006	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	0.006	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	0.006	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	0.006	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.006	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.006	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.006	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.006	mg/kg	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00111	Moisture	SM20 2540 G	1	07/24/2007 18:02	Scott W Freisher	1
02005	TPH by NWTPH-Gx soils	ECY 97-602 NWTPH-Gx modified	1	07/23/2007 18:50	Linda C Pape	25
02214	TPH by NWTPH-Dx(soils) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/26/2007 02:36	Glorines Suarez- Rivera	1
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	07/25/2007 20:38	Nicholas R Rossi	1
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	07/25/2007 20:38	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	07/25/2007 17:26	Sara E Wolf	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	07/23/2007 09:06	Suzanne E Beisel	n.a.

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. SW 5109033

B-2-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 10:05

Submitted: 07/21/2007 09:30

Discard: 09/06/2007

Reported: 08/06/2007 at 17:12

DRO Alternate Soil 07024

Extraction

by KM

Account Number: 12258

ConocoPhillips

Suite 212

1230 W. Washington Tempe AZ 85281

ECY 97-602 NWTPH-Dx 06/97

1 07/24/2007 09:30 Ineabelle Poveda

^{*=}This limit was used in the evaluation of the final result



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Page 1 of 3

Lancaster Laboratories Sample No. WW 5109034

B-2

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 10:15

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

ConocoPhillips

				As Received	As Received					
CAT			As Received	Method	Limit of		Dilution			
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor			
02211	TPH by NWTPH-Dx(water) w/SiGel									
02095	Diesel Range Organics	n.a.	11,000.	320.	1,000.	ug/l	1			
02096	Heavy Range Organics	n.a.	1,600.	400.	2,000.	ug/l	1			
	Due to the outer of the		J			5,				
	Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.									
08273	TPH by NWTPH-Gx waters									
01645	TPH by NWTPH-Gx waters	n.a.	130. J	50.	250.	ug/l	1			
05382	EPA SW846/8260 (water)					(4)				
05385	Chloromethane	74-87-3	N.D.	1.	5.	ug/l	1			
05386	Vinyl Chloride	75-01-4	N.D.	1.	5.	ug/l	1			
05387	Bromomethane	74-83-9	N.D.	1.	5.	ug/l	1			
05388	Chloroethane	75-00-3	N.D.	1.	5.	ug/l	1			
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	5.	ug/l	1			
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1			
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1			
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1			
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1			
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1			
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1			
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1			
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1			
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1			
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	5.	ug/l	1			
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1			
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1			
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1			
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1			
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1			
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1			
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1			
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1			
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1			
05416	m+p-Xylene	1330-20-7	2. J	0.8	5.	ug/l	1			

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 5109034

B-2

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 10:15

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

1230 W. Washington Tempe AZ 85281

2BVRT

				As Received	As Received		
CAT			As Received	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05417	o-Xylene	95-47-6	N.D.	0.8	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
08202	EPA SW 846/8260 - Water						
01587	Ethanol	64-17-5	N.D.	50.	250.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	5.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.8	5.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.8	5.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.8	5.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	10.	80.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	10.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/27/2007 00:42	Glorines Suarez- Rivera	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	07/24/2007 14:40	Steven A Skiles	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/02/2007 20:26	Emiley A King	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/02/2007 20:26	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/24/2007 14:40	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/02/2007 20:26	Emiley A King	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	07/25/2007 19:10	Mitchell B Crawford	1

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 5109034

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 10:15

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

2BVRT

ConocoPhillips Suite 212 1230 W. Washington Tempe AZ 85281

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. SW 5109035

B-1-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 12:50

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

ConocoPhillips

Suite 212

1230 W. Washington

Tempe AZ 85281

CAT			Dry	Dry Method	Dry Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
00111	Moisture	n.a.	23.4	0.50	0.50	8	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of moisture res	the sample af ult reported a	ter oven drying bove is on an	at		
02005	TPH by NWTPH-Gx soils						
01659	TPH by NWTPH-Gx soils	n.a.	N.D.	1.3	6.5	mg/kg	25
02214	TPH by NWTPH-Dx(soils) w/SiGel						
02097	Diesel Range Organics	n.a.	N.D.	3.9	9.1	mg/kg	1
02098	Heavy Range Organics	n.a.	N.D.	13.	39.	mg/kg	1
03983	EPA SW 846/8260 - Soil						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0007	0.007	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	0.007	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	0.007	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	0.007	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.026	0.13	mg/kg	1
06089	Ethanol	64-17-5	N.D.	0.13	0.65	mg/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	0.007	mg/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	0.007	mg/kg	1
08199	Freon 113	76-13-1	N.D.	0.003	0.013	mg/kg	1,
05441	EPA SW846/8260 (soil)						
05444	Chloromethane	74-87-3	N.D.	0.003	0.007	mg/kg	1
05445	Vinyl Chloride	75-01-4	N.D.	0.001	0.007	mg/kg	1
05446	Bromomethane	74-83-9	N.D.	0.003	0.007	mg/kg	1
05447	Chloroethane	75-00-3	N.D.	0.003	0.007	mg/kg	1
05448	Trichlorofluoromethane	75-69-4	N.D.	0.003	0.007	mg/kg	1
05449	1,1-Dichloroethene	75-35-4	N.D.	0.001	0.007	mg/kg	1
05450	Methylene Chloride	75-09-2	0.004 J	0.003	0.007	mg/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.001	0.007	mg/kg	1
05452	1,1-Dichloroethane	75-34-3	N.D.	0.001	0.007	mg/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.001	0.007	mg/kg	1
05455	Chloroform	67-66-3	N.D.	0.001	0.007	mg/kg	1
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.001	0.007	mg/kg	1

^{*=}This limit was used in the evaluation of the final result



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Page 2 of 3

Lancaster Laboratories Sample No. SW

B-1-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 12:50

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

#### BVRT1

				Dry	Dry		
CAT			Dry	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05458	Carbon Tetrachloride	56-23-5	N.D.	0.001	0.007	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0007	0.007	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	0.007	mg/kg	1
05462	Trichloroethene	79-01-6	N.D.	0.001	0.007	mg/kg	1
05463	1,2-Dichloropropane	78-87-5	N.D.	0.001	0.007	mg/kg	1
05465	Bromodichloromethane	75-27-4	N.D.	0.001	0.007	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	0.007	mg/kg	1
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.001	0.007	mg/kg	1
05468	Tetrachloroethene	127-18-4	N.D.	0.001	0.007	mg/kg	1
05470	Dibromochloromethane	124-48-1	N.D.	0.001	0.007	mg/kg	1
05472	Chlorobenzene	108-90-7	N.D.	0.001	0.007	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	0.007	mg/kg	1
05475	m+p-Xylene	1330-20-7	N.D.	0.001	0.007	mg/kg	1
05476	o-Xylene	95-47-6	N.D.	0.001	0.007	mg/kg	1
05478	Bromoform	75-25-2	N.D.	0.001	0.007	mg/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	0.007	mg/kg	1
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	0.007	mg/kg	1
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	0.007	mg/kg	1
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	0.007	mg/kg	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Chronicle

Dilut	ion
Analyst Facto	or
Scott W Freisher 1	
Linda C Pape 25	
Glorines Suarez- 1	
Nicholas R Rossi 1	
Nicholas R Rossi 1	
Sara E Wolf n.a	
Suzanne E Beisel n.a	
2 2 2	Clorines Suarez- 1 Livera Cicholas R Rossi 1 Licholas R Rossi 1 Licholas R Wolf n.a

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. SW 5109035

B-1-10

Grab

Soil

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 12:50

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

ConocoPhillips

Suite 212

1230 W. Washington Tempe AZ 85281

1 07/24/2007 09:30 Ineabelle Poveda

BVRT1

DRO Alternate Soil 07024

ECY 97-602 NWTPH-Dx 06/97 Extraction

*=This limit was used in the evaluation of the final result



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Page 1 of 3

Lancaster Laboratories Sample No. WW 5109036

B-1

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 13:10

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

ConocoPhillips Suite 212

Reported: 08/06/2007 at 17:12

1230 W. Washington

Discard: 09/06/2007

Tempe AZ 85281

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel						
02095	Diesel Range Organics	n.a.	N.D.	320.	1,000.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	400.	2,000.	ug/l	1
	Due to the nature of the sample	matrix, a re	duced aliquot	was used	The state of the s	5,	
	for analysis. The reporting li						
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	250.	ug/l	1
05382	EPA SW846/8260 (water)						
05385	Chloromethane	74-87-3	N.D.	1.	5.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	5.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	5.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	5.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	5.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5.	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	5.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5.	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	5.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5.	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5.	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	5.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	5.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	5.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5.	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	5.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.8	5.	ug/l	1

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 5109036

B-1

Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected:07/20/2007 13:10

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

ConocoPhillips Suite 212

Discard: 09/06/2007

1230 W. Washington Tempe AZ 85281

Discard: 09/06/2007

1BVRT

12 /111				As Received	As Received		
CAT			As Received	Method	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit*	Quantitation	Units	Factor
05417	o-Xylene	95-47-6	N.D.	0.8	5.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	5.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	5.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
08202	EPA SW 846/8260 - Water						
01587	Ethanol	64-17-5	N.D.	50.	250.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	5.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.8	5.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.8	5.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.8	5.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	10.	80.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	5.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	5.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	10.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Chronicle

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	07/27/2007 01:21	Glorines Suarez- Rivera	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	07/24/2007 15:10	Steven A Skiles	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/02/2007 20:49	Emiley A King	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/02/2007 20:49	Emiley A King	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/24/2007 15:10	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/02/2007 20:49	Emiley A King	1
02135	Extraction - DRO Water	ECY 97-602 NWTPH-Dx	1	07/25/2007 19:10	Mitchell B Crawford	1

^{*=}This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 5109036

B-1 Grab

Water

Site# 255216

11400 SW Beaverton Hilldale Hwy - Beaverton, OR

Collected: 07/20/2007 13:10

by KM

Account Number: 12258

Submitted: 07/21/2007 09:30

Reported: 08/06/2007 at 17:12

Discard: 09/06/2007

1BVRT

ConocoPhillips Suite 212 1230 W. Washington Tempe AZ 85281

^{*=}This limit was used in the evaluation of the final result



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### Quality Control Summary

Client Name: ConocoPhillips Reported: 08/06/07 at 05:13 PM Group Number: 1048024

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

### Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOO	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07200A02C TPH by NWTPH-Gx soils	Sample N.D.	number(s):	5109029,510 5.0	9031,5109033 mg/kg	,51090: 108	35	67-119		
Batch number: 072050007A Diesel Range Organics Heavy Range Organics	Sample N.D. N.D.	number(s): 3.0 10.	5109029,510 7.0 30.	9031,5109033 mg/kg mg/kg	,510903 72	35	60-120		
Batch number: 07205820001A Moisture	Sample	number(s):	5109029,510	9031,5109033	,510903 100	35	99-101		
Batch number: 07205A07A TPH by NWTPH-Gx waters	Sample N.D.	number(s):	5109030,510 250.	9032,5109034 ug/l		36 110	75-135	3	30
Batch number: 072060012A Diesel Range Organics Heavy Range Organics	Sample N.D. N.D.	number(s): 80. 100.	5109030 250. 500.	ug/l ug/l	69		61-106		
Batch number: 072060017A Diesel Range Organics Heavy Range Organics	Sample N.D. N.D.	number(s): 80. 100.	5109032,5109 250. 500.	9034,5109036 ug/l ug/l	70		61-106		
Batch number: B072061AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride trans-1,2-Dichloroethene 1,1-Dichloroethene cis-1,2-Dichloroethene Chloroform 1,1,1-Trichloroethane Carbon Tetrachloride Benzene 1,2-Dichloroethane Trichloroethene Trichloroethene	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	0.0005 0.001 0.001 0.002 0.002 0.002 0.002 0.001 0.002 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.005 0.005 0.005 0.10 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005	mg/kg	104 96 96 99 98 94 88 89 92 100 104 99 99 102 99 103 102 101 99	35	72-117 72-120 72-115 73-116 52-153 58-123 60-118 61-118 63-120 58-125 74-115 75-120 77-113 82-116 84-113 81-117 74-127 76-122 84-115 76-126 81-114		
1,2-Dichloropropane Bromodichloromethane Toluene 1,1,2-Trichloroethane	N.D. N.D. N.D. N.D.	0.001 0.001 0.001 0.001	0.005 0.005 0.005 0.005	mg/kg mg/kg mg/kg mg/kg	102 102 99 104		78-119 77-116 81-116 81-112		

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The background result was more than four times the spike added.



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### Quality Control Summary

Client Name: ConocoPhillips Reported: 08/06/07 at 05:13 PM

Group Number: 1048024

### Laboratory Compliance Quality Control

	Blank	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
Analysis Name	Result	MDL**	LOO	Units		%REC	Limits	RPD	RPD Max
Tetrachloroethene	N.D.	0.001	0.005	mg/kg	98	ORCE	70-117	****	MID MAN
Dibromochloromethane	N.D.	0.001	0.005	mg/kg	100		80-113		
Chlorobenzene	N.D.	0.001	0.005	mg/kg	97		81-112		
Ethylbenzene	N.D.	0.001	0.005	mg/kg	99		82-115		
m+p-Xylene	N.D.	0.001	0.005	mg/kg	98		82-117		
o-Xylene	N.D.	0.001	0.005	mg/kg	97		82-117		
Bromoform	N.D.	0.001	0.005	mg/kg	103		63-120		
1,1,2,2-Tetrachloroethane	N.D.	0.001	0.005	mg/kg	113		64-121		
1,3-Dichlorobenzene	N.D.	0.001	0.005	mg/kg	94		76-112		
1,4-Dichlorobenzene	N.D.	0.001	0.005	mg/kg	95		78-108		
1,2-Dichlorobenzene	N.D.	0.001	0.005	mg/kg	97		81-109		
Ethanol	N.D.	0.10	0.50	mg/kg	90		48-149		
trans-1,3-Dichloropropene	N.D.	0.001	0.005	mg/kg	97		79-112		
cis-1,3-Dichloropropene	N.D.	0.001	0.005	mg/kg	97		80-111		
Freon 113	N.D.	0.001	0.010						
110011113	N.D.	0.002	0.010	mg/kg	86		62-112		
Batch number: N072142AA	Sample numb	per(s): 51	09030.510	9032,510903	4.5109036	5			
Ethanol	N.D.	50.	250.	ug/l	105		39-161		
Methyl Tertiary Butyl Ether	N.D.	0.5	5.	ug/l	98		73-119		
di-Isopropyl ether	N.D.	0.8	5.	ug/l	100		70-123		
Ethyl t-butyl ether	N.D.	0.8	5.	ug/l	98		74-120		
t-Amyl methyl ether	N.D.	0.8	5.	ug/l	98		79-113		
t-Butyl alcohol	N.D.	10.	80.	ug/l	95		69-127		
Chloromethane	N.D.	1.	5.	ug/l	66		47-132		
Vinyl Chloride	N.D.	1.	5.	ug/l	70		54-123		
Bromomethane	N.D.	1.	5.	ug/l	70		47-129		
Chloroethane	N.D.	1.	5.	ug/l	72		57-125		
Trichlorofluoromethane	N.D.	2.	5.	ug/l	69		57-141		
1,1-Dichloroethene	N.D.	0.8	5.	ug/l	96		76-122		
Methylene Chloride	N.D.	2.	5.	ug/l	98		85-120		
trans-1,2-Dichloroethene	N.D.	0.8	5.	ug/l	96		83-117		
1,1-Dichloroethane	N.D.	1.	5.	ug/1	99		83-127		
cis-1,2-Dichloroethene	N.D.	0.8	5.	ug/l	95		84-117		
Chloroform	N.D.	0.8	5.	ug/1	101		86-124		
1,1,1-Trichloroethane	N.D.	0.8	5.	ug/1	97		83-127		
Carbon Tetrachloride	N.D.	1.	5.	ug/1 ug/1	93		77-130		
Benzene	N.D.	0.5	5.		96				
1,2-Dichloroethane	N.D.	1.	5.	ug/l	102		78-119 77-132		
Trichloroethene	N.D.	1.	5.	ug/l	95				
1,2-Dichloropropane	N.D.	1.	5.	ug/l			87-117		
Bromodichloromethane	N.D.	1.	5.	ug/l	99		80-117		
Toluene	N.D.	0.7	5.	ug/l	100		83-121		
1,1,2-Trichloroethane	N.D.	0.7	5.	ug/l	94		85-115		
Tetrachloroethene				ug/l	100		86-113		
Dibromochloromethane	N.D.	0.8	5.	ug/l	89		74-125		
Chlorobenzene	N.D.	1.	5.	ug/l	100		78-119		
	N.D.	0.8	5.	ug/l	96		85-115		
Ethylbenzene	N.D.	0.8	5.	ug/l	95		82-119		
m+p-Xylene	N.D.	0.8	5.	ug/l	93		83-113		
o-Xylene	N.D.	0.8	5.	ug/l	94		83-113		
Bromoform	N.D.	1.	5.	ug/l	88		69-118		
1,1,2,2-Tetrachloroethane	N.D.	1.	5.	ug/l	99		72-119		
1,3-Dichlorobenzene	N.D.	1.	5.	ug/l	93		81-114		
1,4-Dichlorobenzene	N.D.	1.	5.	ug/l	93		84-116		
1,2-Dichlorobenzene	N.D.	1.	5.	ug/l	94		81-112		
trans-1,3-Dichloropropene	N.D.	1.	5.	ug/l	98		79-114		

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The background result was more than four times the spike added.



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RPD

### Quality Control Summary

Client Name: ConocoPhillips

Group Number: 1048024

Reported: 08/06/07 at 05:13 PM

#### Laboratory Compliance Quality Control

	Blank	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
Analysis Name	Result	MDL * *	LOQ	Units	%REC	%REC	Limits	RPD	RPD Max
cis-1,3-Dichloropropene	N.D.	1.	5.	ug/l	95		78-114		
Freon 113	N.D.	2.	10.	ug/l	83		66-125		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup Max_
Batch number: 07200A02C TPH by NWTPH-Gx soils	Sample 93	number(s)	: 5109029 39-118	,510903 12	30	033,5109035	UNSPK: P10	2712	
Batch number: 072050007A Diesel Range Organics Heavy Range Organics	Sample	number(s)	: 5109029	,510903	1,5109	033,5109035 N.D. N.D.	BKG: P108 N.D. N.D.	0 (1) 0 (1)	20 20
Batch number: 07205820001A Moisture	Sample	number(s)	: 5109029	,510903	1,5109	033,5109035	BKG: 5109 22.9	029	15
Batch number: 07205A07A TPH by NWTPH-Gx waters	Sample 94	number(s)	: 5109030 63-154	,510903	2,5109	034,5109036	UNSPK: P10	8323	
Batch number: 072060012A Diesel Range Organics Heavy Range Organics	Sample	number(s)	: 5109030	BKG:	510903	N.D. N.D.	N.D. N.D.	0 (1) 0 (1)	20 20
Batch number: 072060017A Diesel Range Organics Heavy Range Organics	Sample	number(s)	: 5109032	,510903	4,5109	036 BKG: 5: 11,000. 1,600. J	109034 8,600. 1,200. J	24* 29* (1)	20 20
Batch number: B072061AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Chloromethane Vinyl Chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene Chloride trans-1,2-Dichloroethene 1,1-Dichloroethane cis-1,2-Dichloroethene Chloroform 1,1,1-Trichloroethane Carbon Tetrachloride Benzene 1,2-Dichloroethane	Sample 92 92 88 90 84 85 87 90 91 98 99 88 94 101 90 101 96 97 97 102	number(s) 95 91 92 91 95 81 77 81 82 87 89 92 89 95 89 97 92 89 92 102	: 5109029 47-130 58-113 60-112 63-112 51-134 38-115 48-113 50-114 52-114 49-127 56-113 42-131 60-110 65-115 67-110 69-117 64-118 56-120 59-120 62-130	,510903 6 0 6 3 14 4 10 9 8 10 9 5 4 5 0 2 3 7 3 2	1,51096 30 30 30 30 30 30 30 30 30 30 30 30 30	033,5109035	UNSPK: P10	8609	

^{*-} Outside of specification

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### Quality Control Summary

Client Name: ConocoPhillips Reported: 08/06/07 at 05:13 PM Group Number: 1048024

#### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

	240		/						
Amalanda Nama	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Trichloroethene	97	91	48-124	5	30				
1,2-Dichloropropane	94	93	64-112	0	30				
Bromodichloromethane	97	95	57-117	0	30				
Toluene	83	81	38-131	1	30				
1,1,2-Trichloroethane	95	95	64-118	1	30				
Tetrachloroethene	94	88	40-140	5	30				
Dibromochloromethane	95	94	58-113	1	30				
Chlorobenzene	93	92	58-109	0	30				
Ethylbenzene	94	90	54-116	3	30				
m+p-Xylene	94	91	44-127	2	30				
o-Xylene	93	91	44-127	1	30				
Bromoform	90	91	54-114	3	30				
1,1,2,2-Tetrachloroethane	97	98	37-142	3	30				
1,3-Dichlorobenzene	90	91	47-109	3	30				
1,4-Dichlorobenzene	92	90	47-109	0	30				
1,2-Dichlorobenzene	93	93	50-111	2	30				
Ethanol	89	93	33-155	5	30				
				-	2000000				
trans-1,3-Dichloropropene	90	89	60-110	1	30				
cis-1,3-Dichloropropene	93	89	56-112	2	30				
Freon 113	85	80	45-107	5	30				
Batch number: N072142AA	Sample	number(s)				9034,5109036	UNSPK:	5109030	
Ethanol	106	113	41-159	6	30				
Methyl Tertiary Butyl Ether	98	104	69-127	4	3 0				
di-Isopropyl ether	108	107	68-129	1	30				
Ethyl t-butyl ether	104	104	78-119	1	30				
t-Amyl methyl ether	104	104	72-125	1	30				
t-Butyl alcohol	92	94	64-130	2	30				
Chloromethane	85	83	46-149	3	3.0				
Vinyl Chloride	91	87	54-143	4	30				
Bromomethane	80	76	52-141	4	30				
Chloroethane	86	81	56-140	6	30				
Trichlorofluoromethane	99	102	64-165	3	30			~	
1,1-Dichloroethene	117	117	87-145	0	30				
Methylene Chloride	108	106	79-133	2	30				
trans-1,2-Dichloroethene	110	110	82-133	0	30				
1,1-Dichloroethane	111	110	85-135	1	30				
cis-1,2-Dichloroethene	105	105							
Chloroform			83-126	1	30				
	110	108	83-139	2	30				
1,1,1-Trichloroethane Carbon Tetrachloride	112	110	81-142	1	30				
	109	109	82-149	0	30				
Benzene	108	106	83-128	2	30				
1,2-Dichloroethane	111	109	70-143	2	30				
Trichloroethene	107	106	83-136	1	30				
1,2-Dichloropropane	109	108	83-129	1	30				
Bromodichloromethane	108	107	80-129	1	30				
Toluene	106	106	83-127	0	30				
1,1,2-Trichloroethane	105	104	77-125	1	30				
Tetrachloroethene	101	101	78-133	0	30				
Dibromochloromethane	106	105	82-119	1	30				
Chlorobenzene	104	103	83-120	1	30				
Ethylbenzene	105	104	82-129	1	30				
m+p-Xylene	104	103	82-130	1	30				
		200	22 130	_	50				

^{*-} Outside of specification

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⁽²⁾ The background result was more than four times the spike added.



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### Quality Control Summary

Client Name: ConocoPhillips Reported: 08/06/07 at 05:13 PM Group Number: 1048024

#### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
o-Xylene	104	102	82-130	1	30				
Bromoform	92	91	64-119	1	30				
1,1,2,2-Tetrachloroethane	102	100	73-121	1	30				
1,3-Dichlorobenzene	98	98	79-123	0	30				
1,4-Dichlorobenzene	98	99	81-122	1	30				
1,2-Dichlorobenzene	99	98	82-117	0	30				
trans-1,3-Dichloropropene	103	103	77-123	0	30				
cis-1,3-Dichloropropene	104	103	80-126	1	30				
Freon 113	115	115	78-146	1	30				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH by NWTPH-Gx soils

Batch number: 07200A02C Trifluorotoluene-F

5109029	84
5109031	82
5109033	82
5109035	82
Blank	89
LCS	102
MS	93
MSD	99

Limits: 61-122

Analysis Name: TPH by NWTPH-Dx(soils) w/SiGel Batch number: 072050007A

Orthoterphenyl

5109029	77
5109031	89
5109033	91
5109035	89
Blank	92
DUP	90
LCS	106

Limits: 50-150

Analysis Name: TPH by NWTPH-Gx waters Batch number: 07205A07A

Trifluorotoluene-F

5109030 5109032

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



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### Quality Control Summary

Reported	d: 08/06/07 at 05:13		Year and the second	
		Surrogate Q	uality Control	
5109034	96			
5109036	92			
Blank LCS	105			
LCSD	105			
MS	101			
Limits:	63-135			
Analysis 1	Name: TPH by NWTPH-Dx(wate	er) w/SiGel		
Batch numl	per: 072060012A Orthoterphenyl			
5109030	92			
Blank	88			
DUP	81			
LCS	100			
Limits:	50-150			
	Name: TPH by NWTPH-Dx(wate	er) w/SiGel		
satch numb	per: 072060017A			
	Orthoterphenyl			
109032	7.0			
1109032	78			
5109034	92			
5109034 5109036				
5109034 5109036 Blank	92			
5109034 5109036 Blank DUP	92 84 84 90			
5109034 5109036 Blank DUP	92 84 84			
5109034 5109036 31ank DUP LCS	92 84 84 90			
5109034 5109036 Blank DUP LCS	92 84 84 90 100	.)		
5109034 5109036 Blank DUP LCS Limits:	92 84 84 90 100	.)		
5109034 5109036 31ank DUP LCS Limits:	92 84 84 90 100 50-150 Jame: EPA SW846/8260 (soil	.) 1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzen
5109034 5109036 31ank DUP JCS Jimits: Analysis Natch numb	92 84 84 90 100 50-150 Jame: EPA SW846/8260 (soil ber: B072061AA Dibromofluoromethane	1,2-Dichloroethane-d4		
S109034 S109036 Slank DUP LCS Limits: Analysis Natch numb	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil per: B072061AA Dibromofluoromethane	1,2-Dichloroethane-d4	99	86
S109034 S109036 Slank DUP JCS Jimits: Analysis N Batch numb	92 84 84 90 100 50-150 Jame: EPA SW846/8260 (soil ber: B072061AA Dibromofluoromethane	1,2-Dichloroethane-d4	99	86
5109034 5109036 Slank DUP .CS .imits: .malysis Natch numb 5109029 5109031 5109033	92 84 84 90 100 50-150 Jame: EPA SW846/8260 (soil ber: B072061AA Dibromofluoromethane 98 101	1,2-Dichloroethane-d4  91 92 93	99 99 100	86 86 85
5109034 5109036 510ank DUP CCS Simits: Malysis Natch numb 5109029 1109031 1109033 1109035	92 84 84 90 100 50-150 Jame: EPA SW846/8260 (soil ber: B072061AA Dibromofluoromethane	1,2-Dichloroethane-d4 91 92 93 92	99 99 100 99	86 86 85 86
5109034 5109036 31lank DUP LCS Limits: Analysis N Batch numk 5109029 5109031 5109033 5109035 511ank	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil per: B072061AA Dibromofluoromethane 98 101 96 99 101	1,2-Dichloroethane-d4 91 92 93 92 96	99 99 100 99	86 86 85 86 85
5109034 5109036 31ank DUP LCS Limits: Analysis No 8atch numb 5109029 5109031 5109033 5109035 5108035	92 84 84 90 100 50-150 Jame: EPA SW846/8260 (soil ber: B072061AA Dibromofluoromethane 98 101 96 99	1,2-Dichloroethane-d4 91 92 93 92 96 97	99 99 100 99 98 102	86 85 86 85 96
5109034 5109036 Blank DUP LCS Limits: Analysis N Batch numk 5109029 5109031 5109033 5109035 31ank LCS	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil Der: B072061AA Dibromofluoromethane 98 101 96 99 101 100	1,2-Dichloroethane-d4 91 92 93 92 96	99 99 100 99	86 85 86 85
5109034 5109036 Blank DUP LCS Limits: Analysis N Batch numk 5109029 5109031 5109033 5109035 Blank LCS MSD	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil ber: B072061AA Dibromofluoromethane 98 101 96 99 101 100 100	1,2-Dichloroethane-d4 91 92 93 92 96 97 93	99 99 100 99 98 102 101	86 86 85 86 85 96 97
5109034 5109036 Blank DUP LCS Analysis N Batch numk 5109029 5109031 5109033 5109035 Blank LCS MSD Limits:	92 84 84 90 100 50-150 Jame: EPA SW846/8260 (soil Der: B072061AA Dibromofluoromethane 98 101 96 99 101 100 100 99	1,2-Dichloroethane-d4  91 92 93 92 96 97 93 90	99 99 100 99 98 102 101	86 86 85 86 85 96 97
5109034 5109036 5109036 510ank DUP LCS Limits: Analysis N Batch numk 5109029 5109031 5109035 5109035 6109035 6109035 6109035 6109035 6109035 6109035 6109035 6109035 6109035 6109035 6109035 6109035 6109035 6109035 6109035	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil per: B072061AA Dibromofluoromethane 98 101 96 99 101 100 100	1,2-Dichloroethane-d4  91 92 93 92 96 97 93 90	99 99 100 99 98 102 101	86 86 85 86 85 96 97
5109034 5109036 31lank DUP GCS Jimits: Analysis N Batch numk 6109029 5109031 5109033 5109035 81ank GCS MS	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil per: B072061AA Dibromofluoromethane 98 101 96 99 101 100 100 99	1,2-Dichloroethane-d4  91 92 93 92 96 97 93 90	99 99 100 99 98 102 101	86 86 85 86 85 96 97 98
S109034 S109036 S1lank DUP LCS Limits: Analysis N Satch numb S109029 S109031 S109035 S1ank LCS IS ISD Limits: Analysis N Satch numb	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil per: B072061AA Dibromofluoromethane 98 101 96 99 101 100 100 99 71-114 Name: EPA SW846/8260 (wate	1,2-Dichloroethane-d4  91 92 93 92 96 97 93 90 70-109	99 99 100 99 98 102 101 102 70-123	86 86 85 86 85 96 97 98 70-111
S109034 S109036 S10ank SUP CCS Simits: Analysis N Statch numb S109029 S109033 S109035 S1ank CCS SISD Simits: Analysis N Sister numb S109030	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil ber: B072061AA Dibromofluoromethane 98 101 96 99 101 100 100 99 71-114 Mame: EPA SW846/8260 (water ber: N072142AA Dibromofluoromethane	1,2-Dichloroethane-d4  91 92 93 92 96 97 93 90  70-109  1,2-Dichloroethane-d4	99 99 100 99 98 102 101 102 70-123 Toluene-d8	86 86 85 86 85 96 97 98 70-111 4-Bromofluorobenzen
sinogo34 sinogo36 sinank sup LCS .imits: analysis N satch numk sinogo29 sinogo33 sinogo35 slank LCS ISI Limits: analysis N satch numb sinogo30 sino	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil per: B072061AA Dibromofluoromethane 98 101 96 99 101 100 100 99 71-114 Name: EPA SW846/8260 (wate per: N072142AA Dibromofluoromethane	1,2-Dichloroethane-d4  91 92 93 92 96 97 93 90  70-109  1,2-Dichloroethane-d4	99 99 100 99 98 102 101 102 70-123 Toluene-d8	86 86 85 86 85 96 97 98 70-111 4-Bromofluorobenzen 95 96
5109034 5109036 5109036 Silank DUP LCS Limits: Analysis N Batch numk 5109029 5109031 5109033 5109035 Silank LCS MSD Limits: Analysis N Batch numb 6109030 6109030	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil per: B072061AA Dibromofluoromethane 98 101 96 99 101 100 100 99 71-114 Name: EPA SW846/8260 (water Per: N072142AA Dibromofluoromethane	1,2-Dichloroethane-d4  91 92 93 92 96 97 93 90  70-109  1,2-Dichloroethane-d4  97 97	99 99 100 99 98 102 101 102 70-123 Toluene-d8	86 86 85 86 85 96 97 98 70-111 4-Bromofluorobenzene
5109034 5109036 Blank DUP LCS Limits: Analysis N Batch numk 5109029 5109031 5109033 5109035 31ank LCS MS MSD Limits: Analysis N	92 84 84 90 100 50-150 Name: EPA SW846/8260 (soil ber: B072061AA Dibromofluoromethane 98 101 96 99 101 100 100 99 71-114 Name: EPA SW846/8260 (water ber: N072142AA Dibromofluoromethane	1,2-Dichloroethane-d4  91 92 93 92 96 97 93 90  70-109  1,2-Dichloroethane-d4	99 99 100 99 98 102 101 102 70-123 Toluene-d8	86 86 85 86 85 96 97 98 70-111 4-Bromofluorobenzene

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The background result was more than four times the spike added.



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### Quality Control Summary

Client Name: ConocoPhillips

Group Number: 1048024

Reported: 08/06/07 at 05:13 PM

Surrogate Quality Control

MS 99 100 101 97 MSD 99 97 101 97

Limits:

80-116

77-113

80-113

78-113

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The background result was more than four times the spike added.

# Conocol illips Analysis Request/Chain of C_stody



Lancaste	r	For La	ncaster Labs	Use C	NLY	Acc	L#:	13	7	58		_	Gro	up#	10	4 40	<b>&gt;</b> 24	Sa	mple#	5109074	SCR#:	
Laboratories 007447											List total number of containers in the Analyses Requested box under each analysis.										7	
Site #: 255214. AOC#:									Preservation Code							Codes	analysis.			Preservative Codes		
Site City: BENEPTON State: DR										-	3				+	$\Box$			$\Box$	H = HCI	T = Thio	
	)	Sta	te: OR		- 1	T		ヿ		1	1									$N = HNO_3$	B = NaC	OH
Enfos PO#					_	9	S			9	3	S			1				A	$S = H_2SO_4$	O = Othe	er
ConocoPhillips PM: Work	BOONE		Š.		_	1	P		Brox	Etho	3	20	3	å					1 2	8		
Samplers Name: K.Mil	LER.			П	osite	C	NPDES	Ąį			Ø	HVOC	7	PA					P			
Sample Identification	8	Date Collected	Time Collected	Grab	Compo	Soil	Water		8260	826	8260	8260	NUTPH-GY	NUTPH-DA				404	0 00	- Remarks		
COP 255 216	3-4-5	7.20-01	740	Х	_	X								1	1			X	13	TO THE TAX OF THE TAX	Annual Contract Contr	held discourage questions
COR 255216	8-4-10	l f	145	X		4			×	X	X	K	X	X	T		. 1	7	3	2 5 5	9	
COP 255216	B-4-15		750	X		X									T			K	3	· · · · · · · · · · · · · · · · · · ·	o J.	
COR 255216	3-4-20%		750	X		X									$\top$	$\top$		X	3			
COR 255216	84		805	X		'	X	T	X	x	×	x	×	x	1	+			8		7 222	
COR 255214	B-3-5		845	x		X		T				-			T	+	11	X	3			
COP 255216	3-3-10		850	2		X		1	X	X	K	N	×	X	$\top$	+		1	3			
COP 255214	B-3-15	12	855	1		M		T							+	+		X	3			
coe 255214	8-3-20		855	X	1	4		1							+			×	3			
COP 255214	B-3		0905	K		1	X	T	X	x	×	V	32	X	$\top$		++	-	8			
COP 255214	8-2-5		1000	X		1		T	1					$\top$	+		++	X	3			
COP 255216	B-2-10		1005	4	T	12.			X	×	×	×	×	X	T		+		3		-	
COP 255214	3-2-15		1015	4	-	-	-	+	-	-				+	+	++		_	11	No Samo	1-	
Consultant Information:					Tu	rnard	ound	Tin	ne R	lea	LIPS	ted	in P	using	000	Dave (	TAT) (C	irclo	One			-
Office City: Ticaso	State:	02.			ET		5 da							Oth		Days (	(171)	)II CIC	One	<b>/-</b>		
Project Manager: KELL				.		_		_	-						_	-: T		_	_			
						ouism										Received by.			7	Date	Time	
Email: Kelly bline Cateassociates. con							ed by		7				_	7.2001 153 Date Time			The state of the s					
Electronic Data Deliverables (Circle One) Yes / No Format							Relinquished by:									ime	Received by:				Date	Time
		S/NO FORM	at	-	Relin	quish	ed by	<u> </u>	-		_	-		Date	, +	Time	Receive	d hv			Data	Time
Heporting Requirements (Circle One)								-						Duto		, ,,,,,	Received by:			_/	Date	
Standard Reports/QC Sumr				ı	Relin	quish	ed by	Con	nme	rcial	Car	rier.			1		-				וויאטן	10100
NJ Regulatory NJ Reduc	ed NY ASP-A N	Y ASP-B Ot	her		UPS			Fed		/	-		Othe	r			Tempe	faturo	Unon	Paraint 48	-544	Co

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4531.02 P1 0/2

## Conocol illips Analysis Request/Chain of C_stody



Laborator	ies		ncaster Labs	Use ON	LY	Acct. #	: 11	124	3		_	Gro	up#	10	150	M	S	ample	#: 2100039-	SCR#:		
•. Laborator	0	07446				4. 4.		Ana	alys	es I	Requ	uest	Lis ed bo	st total	number each	er of con	ntainers	in the				
Site #: 255214 AOC#:						Matrix			Pre					tion (	odes				Prese	Preservative Codes		
Site City: Beaveron State: 02					-		_		79	1	1	H	+	+	+	-	+	1	H = HCI	T = Thic	sulfate	
Enfos PO#						1		X	3	190	HVOCS							1	$N = HNO_3$ $S = H_2SO_4$	B = Na( O = Oth		
ConocoPhillips PM: HAX BOONE						stable	3	7.	Ethan	Oxyg	1	3	4				ğ					
					B	Potable	Ā	0		0	0	PH-	ם					3			0	
Sample Identification		Date Collected	Time Collected	Grab	Soil	Water	Oil O Air	8240	8260	826	826	NEWTON-GX	NILL TRUE - DX				HOLD	N A	Barrata			
COP 255216	B-2-20	7.20.07	1010	X	У									+	$\forall$	+	X	7	Remarks			
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COP 255216	B-1-15		1300	X	X												×	3				
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Project Managor: Very V kinds					Turnaround Time Requested in Business Days (TAT) (Circle One):  STD. 5 day 48 hour 24 hour Other																	
				Retinguisted by:				7.2007 15			155					Date	Time					
Electronic Data Deliverables (Circle One) Yes / No Format				eiridi	inquished by: Date						ime	Received by:				Date	Time					
Reporting Requirements (Circle One)  Standard Reports/QC Summary  Full Validation (LLI Type I)				Refinquished by:				-	Date	Date Time Received by:				Date	Time 6430							
NJ Regulatory NJ Reduced NY ASP-A NY ASP-B Other				Relinquished by Commercial Carrier: UPS FedEx Other							Temperature Upon Receipt 4.7-544					_C°						

### Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D. TNTC IU umhos/cm C Cal meq g	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s) microgram(s)	BMQL MPN CP Units NTU F Ib. kg mg	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s)
ug	microgram(s)	1	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

Inorganic Qualifiers

- ppb parts per billion
- Dry weight Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

	Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" td="" ≥idl<=""></crdl,>
	В	Analyte was also detected in the blank	E	Estimated due to interference
	C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
	D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
	E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
		the instrument		for calculation
	J	Estimated value	U	Compound was not detected
	N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
	P	Concentration difference between primary and	*	Duplicate analysis not within control limits
		confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
	U	Compound was not detected		
)	(,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



Del ment of Environmental Quality Northwest Region Portland Office

2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 (503) 229-5263 FAX (503) 229-6945 TTY (503) 229-5471

October 3, 2007

MYRON SMITH CONOCOPHILLIPS COMPANY 1230 W WASHINGTON ST STE 212 TEMPE AZ 85281-1247

RE: ConocoPhillips #255216

File No.: 34-07-1495

On September 12, 2007, a release was reported from an underground storage tank (UST) system at your facility located at 11400 SW Beaverton-Hillsdale Highway in Beaverton, Oregon. As the responsible party for the facility, you are required to clean up the release according to OAR 340-122-0201 through 340-122-0360. These rules require cleaning up the soil, groundwater, surface water and any other media contaminated by petroleum to the appropriate standards or demonstrating that the contamination does not pose a risk to human health or the environment. We are looking forward to working with you to bring this site to closure.

An Initial Report Form for UST Cleanup Projects is enclosed. This form needs to be completed and returned to this office within twenty (20) days from the date the release was reported. An outline of additional reporting requirements that includes due dates for submittals is also enclosed. A copy of the UST Cleanup regulations or an application for a letter of authorization for soil treatment will be provided upon request. As the responsible party, you should be aware of the requirements for cleanup, even if you have hired a qualified contractor or consultant to assist you.

### Please reference the DEQ File Number listed above in all future correspondence and reports.

By law, DEQ is required to recover project oversight costs. DEQ oversight begins with the initial site characterization and continues through site closure. Oversight includes activities such as reviewing reports, preparing correspondence, answering technical questions, site inspections, and enforcement actions. You will be receiving an invoice each month for all oversight activities performed to date.

DEQ's highest priority for oversight are those sites that pose the greatest hazard to human health, safety and the environment. As a result, many lower environmental priority sites will not be reviewed in detail or receive a final "No Further Action" or "closure" letter from DEQ until the higher priority sites are addressed. However, all projects, simple or complex, require at least some oversight. At a minimum, review is conducted to determine the environmental priority of the cleanup project.



For those responsible parties who desire DEQ oversight regardless of environmental priority, we have developed a Responsible Party Priority Site Program. To receive oversight and more effectively schedule your project, you will be asked to sign an agreement requesting priority review and confirming your agreement to pay DEQ oversight costs in a timely manner.

Not entering into the Agreement does not release you from responsibility for investigation and/or cleanup of the contamination, nor does it mean that you are exempt from paying for DEQ oversight costs. Please be aware that there may be a waiting list for assignment to the next available project manager, and that these projects are assigned on a first come, first served basis.

Please read the attached information on the cost recovery and invoice process. We have also included information about the Responsible Party Priority Site Program and an agreement, if you are interested in expediting review of your project. You may contact the Land Quality Division at (503) 229-6635 if you have questions about cost recovery.

Thank you for your cooperation and continued efforts to comply with the regulations. If you have any questions about the regulations and/or your cleanup project, please call (503) 229-5263 and ask to speak to the Underground Storage Tank Duty Officer.

Sincerely,

Michael H. Kortenhof, Manager UST Cleanup and Compliance Section

**Enclosures** 

### **PortlandMaps**

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11400 SW BEAVERTON HILLSDALE HWY - - BEAVERTON

Explorer | Property | Maps | Crime | Census | Transportation

Summary | Elevation | Garbage | Hazard | Natural Resources | **Photo** | Property | Water | Sewer | Tax Map | UGB | Watershed | Zip Code | Zoning

**Aerial Photo** 2006 / '05 / '04 / '03 / '02 / '01 6" / 2' / 4' / 10' / 20' Streets: On / Off Lots: On / Off Dot: On / Off

City of Portland, Corporate GIS

10/3/2007

100 FT

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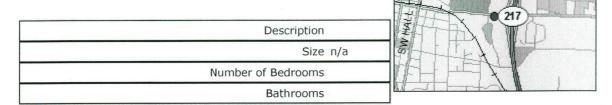
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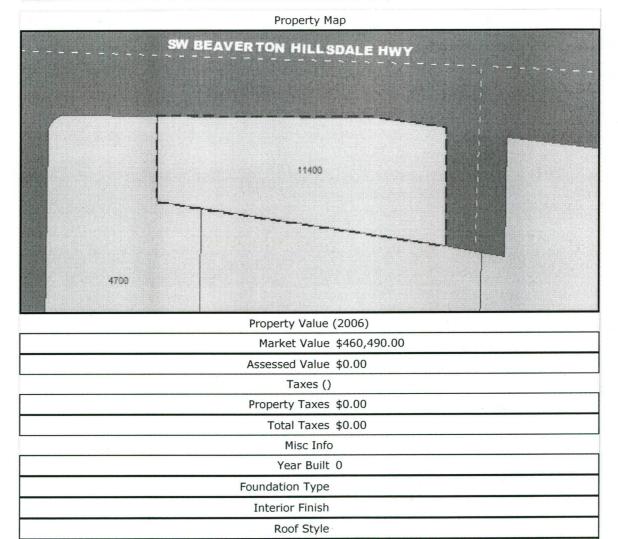
11400 SW BEAVERTON HILLSDALE HWY - - BEAVERTON

Explorer | **Property** | Maps | Crime | Census | Transportation

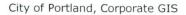
Summary | Assessor | Permits/Cases | Block | Schools | Parks | Businesses | CIPs | Development | River Rewards | Noise | Storage Tank

# 11400 SW BEAVERTON HILLSDALE HWY





Roof Cover Type
Flooring Type
Heating/AC Type





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Department of Environmental Quality

Northwest Region Portland Office 2020 SW 4th Avenue, Suite 400

> Portland, OR 97201-4987 (503) 229-5263 FAX (503) 229-6945

> > TTY (503) 229-5471

August 9, 2005

MARTIN CRAMER CONOCOPHILLIPS PETROLEUM COMPANY 5528 NW DOANE AVE PORTLAND OR 97210

Re: Unocal 5216

File No. 34-89-0172 Facility No. 1036

Dear Mr. Cramer:

The Department of Environmental Quality (DEQ) has completed its review of the information submitted to date concerning a release of petroleum hydrocarbons and the subsequent site investigation conducted at the ConocoPhillips No. 5216 located at 11400 SW Beaverton-Hillsdale Highway in Beaverton, Oregon. DEQ has determined that the cleanup appears to have met the requirements of Oregon Administrative Rules (OAR) 340-122-205 through 340-122-360 for commercial use of the site and that no further action is required at this time.

This determination is a result of our evaluation and judgment based on the regulations and facts as we now understand them:

- 1. The site is an active 76-branded service station with a station building, two dispenser islands beneath a canopy, and two 12,000-gallon gasoline underground storage tanks (USTs) to the west of the station building. Soils at the site generally consist of gravel fill to approximately one foot below ground surface (bgs). Stiff silt with trace sand is encountered below the gravel layer to a depth of 21.5 feet bgs. The station is located approximately 700 feet east of an unnamed tributary to Beaverton Creek, which is located within approximately 0.5 mile northwest of the site.
- 2. Land use in the vicinity includes commercial, a variety of retail and wholesale business, minor manufacturing and existing dwellings that could include residential use. There are currently no residences in the vicinity of the site. The City of Beaverton supplies water to the site and adjacent properties. A search of well logs on file at the Oregon Water Resources Department identified 17 locatable domestic water wells within 0.5 mile radius of the site. The nearest locatable domestic water well located down gradient from the site is approximately 0.75 mile west of the site.
- 3. Prior to 1963, a Unocal-branded petroleum distribution facility was reportedly located on the site and the property east of the site. The former facility consisting of a warehouse, product lines, a loading area, and four above ground petroleum storage tanks was dismantled in 1963 to allow for the widening of State Highway 217 and Beaverton-

Hillsdale Highway. In 1969, the site was developed as Unocal Service Station No. 5216.

- 4. In 1989, the original USTs and associated piping were replaced with two double-walled, fiberglass-coated, steel 12,000-gallon, and one 550-gallon used oil tanks. No holes were observed in the gasoline USTs. A heating oil and a waste oil tank, three hydraulic hoists, and two dispenser islands were also removed during the USTs decommissioning. The protective coating on the heating oil tank was partially intact and moderate corrosion was observed at the hinge line; no holes were observed. The protective coating on the waste oil tank had deteriorated and heavily corroded; holes were observed at the hinge line. Groundwater was present in the gasoline UST excavation and was transferred into a vactruck and transported to an off-site treatment and disposal facility. Petroleum-affected soil and groundwater were observed in the tank cavity. Petroleum hydrocarbons as gasoline (TPH-G) was found at a maximum concentration of 2,900 parts per million (ppm) at the west wall of the excavation. The UST excavation was over-excavated to the north and south, and was limited along the south, east, and west sides due to the presence of structures.
- 5. Approximately 275 cubic yards of petroleum contaminated soil were excavated from the UST cavity and transported to St. Johns Landfill. Petroleum hydrocarbons were not detected in soil samples collected from the former used oil UST excavation. Petroleum hydrocarbons were detected in the vicinity of the hoists and dispenser islands. Approximately 20 cubic yards of petroleum-impacted soil removed from the hoist and dispenser island areas were transported to TPS Technologies Soil Recycling for treatment and final disposal.
- 6. In 1990, four soil borings were drilled and completed as groundwater monitoring wells (MW-1 through MW-4). Groundwater monitoring and sampling activities were initiated in the same year. Groundwater has been generally observed at an approximate depth of over two to five feet bgs with a westerly flow direction.
- 7. During the past four quarters of 2003-04 groundwater monitoring period, concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX) have not been detected above the laboratory method reporting limit (MRLs) in the four groundwater monitoring wells. Methyl tertiary-butyl ether (MTBE) has been detected in wells MW-1 and MW-2 at concentrations ranging from 2.02 to 53.9 parts per billion (ppb). Petroleum hydrocarbons have been detected in wells MW-1 through MW-4 at maximum concentrations ranging from 571 ppb diesel to 1,690 ppb heavy oil. TPH-G has not been detected in any of the wells sampled.
- 8. In 2003, a further site subsurface assessment was conducted to investigate residual soil petroleum contamination from the former UST system and the former hoists inside the station building. 14 borings (B-1 through B-14) were drilled to an approximate depth of 15 feet bgs or until groundwater was encountered. Groundwater was encountered at an approximate depth of five feet bgs during the investigation. In the former hydraulic hoist area, TPH-G was detected at concentrations ranging from 0.194 ppm to 77.2 ppm; TPH-D was detected at concentrations ranging from 34.7 ppm to 1,110 ppm; TPH-O was



- detected at concentrations ranging from 165 ppm to 738 ppm. BTEX, MTBE, and naphthalene were not detected above laboratory MRLs in any of the samples. Isopropylbenzene was detected in sample B-4 at a concentration of 0.311 ppm; and n-propylbenzene was detected in sample B-2 at a concentration of 25.0 ppm.
- 9. In the former gasoline and used oil UST excavation area, TPH-G was detected at concentrations ranging from 0.363 ppm to 13.7 ppm; TPH-D was detected at concentrations ranging from 47.5 ppm to 1,200 ppm; TPH-O was detected at concentrations ranging from 35.7 ppm to 1,050 ppm. Except for a very low concentration of total xylenes in one sample, BTEX and MTBE were not detected above laboratory MRLs in any of the soil samples. Polycyclic aromatic hydrocarbons (PAHs) were detected at concentrations ranging from 0.00316 ppm (naphthalene) to 0.034 ppm (2-methylnaphthalene).
- 10. At the west end of the south dispenser island, TPH-G and TPH-D were detected at concentrations of 0.276 ppm to 47.8 ppm. TPH-O, BTEX, MTBE, and naphthalene were not detected above the laboratory MRLs in any soil samples. PAHs were detected with concentrations ranging from 0.00414 ppm to 0.0261 ppm. Total lead concentrations detected in some soil samples ranged from 7.84 ppm to 18.6 ppm. PCBs and TCLP metals were not detected above laboratory MRLs in any of the two samples submitted for analysis.
- 11. A risk evaluation for the residual petroleum hydrocarbons in soil and groundwater was conducted for the site by Delta Environmental Consultants, Inc. The conceptual site model for the site included soil and groundwater volatilization to outdoor and indoor air, and ingestion-inhalation-dermal exposure of excavation workers to soil and groundwater. No reasonably likely current or future beneficial use of groundwater was identified. Accordingly, the ingestion from groundwater and tap water, inhalation from tap water, and soil leaching to groundwater pathways were deemed to be incomplete. The concentrations of contaminants of potential concern in soil and groundwater were found to be below current DEQ generic risk-based concentrations for the pathways identified in the risk assessment, and do not pose unacceptable risks to human health and the environment.

The no further action determination is subject to the following conditions:

- At such time as land use changes are planned whether by remodeling, replacement or any other manner, soil samples must be collected and analyzed, and a current risk assessment made, to ensure the adequate protection of human health related to the new uses of the property. Results of soil sample collection and analysis, and the risk assessment, must be provided to DEQ for review and approval before the new use of the property occurs.
- No use shall be made of the groundwater at the property, by extraction through
  wells or by other means, that involves consumption or non-consumptive use of
  the groundwater. Should groundwater use be proposed, a risk assessment must

be conducted and submitted to DEQ for review and approval prior to the extraction of any groundwater.

The DEQ's determination will not be applicable if new or undisclosed facts show that the cleanup does not comply with the referenced rules. The DEQ's determination also does not apply to any conditions at the site other than the petroleum hydrocarbon release associated with the USTs specifically addressed in the reports.

Please note that pursuant to OAR 340-122-360(2), a copy of your report must be retained for ten (10) years after the first transfer of the property. We recommend that a copy of this information be kept with the permanent property records.

Your efforts to comply with the regulations to ensure that your property has been adequately cleaned up have been appreciated. If you have any questions, please feel free to contact me at (503) 229-5858.

Sincerely,

Bijan N. Pour

UST Cleanup Specialist

Northwest Region Tanks Program

cc: Ruth K Ha

Delta Environmental Consultants, Inc.

7150 SW Hampton Suite 220

Tigard OR 97223

Steen during Removal Date: Removal Date: Enforcement Action: Cost Recovery Initiated: Pct. R.P.: Source of Cost Recovery: Pct. SLw/TF: Pct. SLw/oTF: Cost of Cleanup:____ Estimations: Staff Time On Project: Site Management Comments: [Version 102]