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Mr. James Frechione
Alaska Department of Environmental Conservation
610 University Avenue
Fairbanks, Alaska 99709

Subject:
2007 Site Assessment Report
Former Chevron Bulk Plant 1001430, Former Texaco Bulk Plant 211815, and Former Unocal Bulk Plant 306456
418 Illinois St, 410 Driveway St, 328.5 Illinois St.
Fairbanks, Alaska
Reckeys: 1984310111601, 1986310112001, 1989310912101, respectively

Environmental

Date:
January 18, 2008

Contact:
Rebecca K. Andresen

Phone:
206.726.4717

Email:
Rebecca.Andresen@arcadis-us.com

Our ref:
B0045505
B0045506
B0045512

Dear Mr. Frechione:

On behalf of Chevron Environmental Management Company (Chevron), ARCADIS U.S., Inc. (ARCADIS BBL, formerly known as Blasland, Bouck and Lee, Inc.) has prepared this site assessment to report work completed for additional delineation of soil and groundwater impact at former Chevron Bulk Plant 1001430 (Former Chevron), former Texaco Bulk Plant 211815 (Former Texaco), and former Unocal Bulk Plant 306456 (Former Unocal) located at 418 Illinois St, 410 Driveway St, and 328.5 Illinois St., respectively, in Fairbanks, Alaska (**Figure 1**). This report outlines the procedures that were used to complete one monitoring well southwest of the former Unocal, eleven shallow soil borings near potential source areas and to install permanent vapor probes throughout the sites as shown on **Figure 2**. This report has been prepared at the request of the Alaska Department of Environmental Conservation (ADEC) and consequent to agreements reached during the April 4, 2007 meeting with ADEC, Chevron, and ARCADIS BBL.

Site Descriptions

The former Chevron, Texaco and Unocal bulk plants are located adjacent to one another. The Alaska Railroad Corporation (ARRC) has owned the properties since the early 1900's. The sites are located within the Fairbanks Area-Wide Industrial Reclamation (FAIR) Area which is bordered by Noyes Slough to the north and east and Chena River to the south. Land use in the area consists primarily of industrial activities including: railroad facilities, bulk fuel terminals, gasoline stations, miscellaneous light industrial and warehousing.

The Former Chevron is located at 418 Illinois Street in Fairbanks, Alaska. Chevron leased the property and operated a bulk plant at the site from 1926 to 1985. Saupe Enterprises began operating a bulk plant at the site in 1985. Sourdough Fuels now operates a bulk plant at the site. Former facilities included several aboveground storage tanks (ASTs) of varying sizes, conveyance piping, pump house, loading racks, warehouse, and an office. Current facilities include conveyance piping, pump house, loading racks, warehouse, an office, and a new horizontal AST farm located west of the original ASTs. Several of the original ASTs are now reportedly used for drum storage. In 1986, a groundwater extraction well was installed in the southwest corner of the site. From 1986 to 1990, the extraction well removed approximately 10,000 gallons of free-phase petroleum product. Since 1982, 23 groundwater monitoring wells have been installed on and off-site. There are currently 10 monitoring wells (MW-23, MW-25, TH-1, TH-2, TH-5, TH-7, TH-10, TH-13, TH-17, and TH-18) available and part of the sampling program for the Former Chevron site.

The Former Texaco is located at 410 Driveway Street in Fairbanks, Alaska. Currently, the site is leased from the ARRC by Unique Alaska. Unique Alaska has sub-leased the property to ABC General Contracting. Texaco leased the property and operated a bulk plant at the site from 1958 to 1982. Willner's Fuel Distribution then leased the site and operated a bulk plant at the site from 1982 to 1993. A total of 12 ASTs, five 2,020-barrel capacity and seven 476-barrel capacity, were located on the southern portion of the site. The five larger AST's were removed from the site in 1994 and historically, contained No. 1 and No. 2 diesel, unleaded gasoline, and regular leaded gasoline. The smaller ASTs historically contained No. 10 oil. Information on their removal is unknown at this time. Two of the ASTs (one large and one small) were reportedly rented to a chemical company and contained silicone. The fuel holding and dispensing facilities were removed from the site sometime between 1994 and 2000. Eleven monitoring wells (AR-81, AR-85, MW-1 through MW-5, and MW-7 through MW-10) are currently available and part of the sampling program for the Former Texaco site.

The Former Unocal is located on a 3.11 acre parcel located at 328.5 Illinois Street in Fairbanks, Alaska. Unocal utilized the western 1.84 acres of the site to store and dispense fuel between approximately 1952 and 1982, and added the western 1.27 acres onto the lease in 1961. Former fuel facilities included two 55,000-gallon and nine 20,000-gallon ASTs, underground pipelines, pumping facilities, a loading rack, and fuel dispensing pumps. Fuel stored on the site consisted of diesel and aviation gas. The Alaska Road Commission leased the eastern 1.27 acres of the site from 1941 to 1981. The entire site was leased by Interior Leasing from 1982 to 1989 and

by CEM Leasing from 1989 to 2001. From 1982 to 2001, the facility was operated by Petroleum Sales. According to Phil Tannehill, co-owner of Petroleum Sales, the ASTs were removed in 1993, and the piping and dispensing equipment were removed in 1997. OK Lumber is currently leasing the property from the railroad. It was observed during a 2004 monitoring event that a church was using the site for parking several school buses. During a spring 2005 site visit, surface grading and fence alterations were also noted. The site is now accessible from the north via the railroad right-of-way. Buses are no longer being parked on the site, and the west warehouse appears to contain some sort of small business (no further details are available) **(Figure 2)**. Eighteen monitoring wells (GEI-1 through GEI-12, K-5, K-7, MW-2, MW-4, MW-5, and MW-6) are currently available and part of the sampling program for the Former Unocal site.

Groundwater monitoring is conducted on a semi-annual basis at each of these sites. Wells which have historically had light-non-aqueous phase liquid (LNAPL), are gauged, and LNAPL is recovered (when present) on a monthly basis.

Additional Soil Delineation

The purpose of the soil investigation and soil delineation is to assist in the evaluation of potential receptors being exposed to petroleum constituents near the surface. Potential pathways which have not been eliminated include dermal contact and incidental ingestion of impacted surface soil. ARCADIS BBL installed eleven (11) shallow borings at select locations at the site as shown on **Figure 2** and described below:

- Three borings were completed near the southeast corner of the Former Texaco in the vicinity of the former ASTs and ethanol tank to evaluate potential surface releases from the tanks
- Two borings were completed near the southwest corner of the Former Chevron to evaluate potential surface releases from the ASTs
- Three borings were completed adjacent to the former train loading and truck and trailer loading racks of the Former Unocal to evaluate potential surface spills at the racks, and
- Three borings were completed near the southwest corner of the Former Unocal in the vicinity of the former ASTs to evaluate potential surface releases from the tanks.

The shallow soil borings were advanced using a hand auger and/or post-hole digger to a depth of 2 feet below ground surface (bgs). Discrete soil samples were collected at approximately 2 feet bgs, screened in the field using a photoionization detector (PID), and described by the supervising geologist using visual and manual methods of the Unified Soil Classification System (USCS). Soil samples were submitted to an Alaska state-certified laboratory, Lancaster Laboratories (Lancaster), for analysis to determine concentrations of gasoline range organics (GRO) by Alaska Method AK 101, diesel range organics (DRO) by Alaska Method AK 102, RRO by Alaska Method AK 103, and volatile organic compounds (VOCs) by US EPA Method 8260B.

The analytical results indicate that soil borings SB-9 and SB-10 exceeded the GRO ADEC Soil Cleanup Level of 300 milligrams per kilogram (mg/kg) at 1,300 mg/kg and 1,100 mg/kg, respectively (**Table 5 and Figure 3**). Seven of the soil borings (SB-2 through SB-5, SB-7, SB-9 and SB-10) exceeded the DRO soil cleanup level of 250 mg/kg, ranging from 280 mg/kg in SB-2 to 7,400 mg/kg in SB-9. Soil borings SB-7, SB-9, and SB-11 exceeded the benzene soil cleanup level of 0.02 mg/kg at 0.061 mg/kg, 0.15 mg/kg, and 0.051 mg/kg, respectively. Laboratory method detection limits for benzene were higher than the applicable benzene soil cleanup level (0.02 mg/kg) in soil borings SB-1 through SB-4, SB-6, SB-8, and SB-10. Samples from soil borings SB-2 through SB-4, SB-7, and SB-9 through SB-11 had detections of one or more of the following compounds: ethanol, 1,2,4-trichlorobenzene, 1,2,3-trichlorobenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, naphthalene and p-isopropyltoluene. The samples did not exceed the applicable soil cleanup levels for those compounds which have an established cleanup level. However, ethanol was detected in the method blanks for soil borings SB-2, SB-3 and SB-4. According to the laboratory report, the blank values were not subtracted from the analytical results. Ethanol is a contaminate in the methanol used to perform the high level extraction. Soil boring photo ionization detector (PID) field measurements are included as **Table 6**.

Additional Groundwater Delineation

Dissolved-phase concentrations of GRO, DRO, and benzene have been detected in samples collected from site monitoring wells at concentrations exceeding the applicable standards. Of particular concern are elevated dissolved-phase concentrations detected in Former Unocal monitoring wells GEI-7, GEI-11, GEI-12, MW-7 and MW-8. In order to assess the lateral, down-gradient extent of groundwater contamination, one additional monitoring well (MW-13) was installed

southwest of well GEI-11. The monitoring well location is depicted on **Figure 2** and a completion log is included in **Appendix A**.

After the boring location was cleared using air-knife technology to an approximate depth of 8 feet bgs, the monitoring well was drilled with a hollow-stem auger rig. Soil samples were collected at 5-ft intervals using either a hand-sampling device or modified split spoons and were logged using visual and manual methods of the Unified Soil Classification System (USCS). Based on the results of field screening with a PID, select soil samples were submitted to Lancaster for analysis to determine concentrations of GRO by Alaska Method AK 101, DRO by Alaska Method AK 102, RRO by Alaska Method AK 103, and benzene, toluene, ethylbenzene and total xylenes (BTEX) by US EPA Method 8021B. The analytical results indicate that none of the constituents exceeded the applicable ADEC Soil Cleanup Levels.

Historically, depths to groundwater in the monitoring wells at the Former Unocal have ranged from 10.94 to 20.63 feet below the top of casing (TOC) of each well. In addition, since October 2002 the average depth to groundwater in the monitoring wells is approximately 15.6 feet below TOC. Based on the historical groundwater data and past subsurface investigations, the monitoring well was installed to a depth of 25 feet bgs and was completed with 2-inch ID Schedule 40 PVC casing with 15 feet of 0.010-inch slotted screen. The screen was packed with coarse sand and the screen pack was extended 2 feet above the top of the screen. The annular space of the well was then sealed with hydrated bentonite chips to two feet bgs and the balance of the annulus was filled with clean native fill. The monitoring well was completed with a locking cap and concrete monument.

Monitoring Well Development, Sampling, and Surveying

Well development occurred after the well was completed. Well development was performed by surging the well over the length of the screen interval, then purging until the water was relatively free of suspended sediments, and pH, conductivity, and temperature have stabilized, and/or until approximately 10 well volumes were removed.

The new monitoring well was sampled one week following development. Collected groundwater samples were submitted to Lancaster for analysis to determine concentrations of GRO by Alaska Method AK 101, DRO by Alaska Method AK 102, RRO by Alaska Method AK 103, and BTEX by US EPA Method 8021B. Proper chain-of-custody documentation was used throughout sample collection and delivery

to the laboratory. The analytical results indicate that none of the constituents exceeded the applicable ADEC Groundwater Cleanup Levels (**Table 2c and Figure 4**).

A licensed surveyor was obtained to survey the new well location relative to existing site features, and also determined top-of-casing well elevation relative to an established geodetic datum to the nearest 0.01-ft. In addition, all three sites were resurveyed relative to a common datum.

Soil Vapor Investigation

In order to assess the potential for vapor intrusion at the site, ARCADIS installed permanent soil gas probes at the following locations: one probe at the former Chevron facility, one probe at the former Texaco facility, and one probe at the former Unocal facility, for a total of three probes, as shown on **Figure 2**. Soil vapor probe completion logs are included in **Appendix A**. The probe installation locations were selected based on the highest remaining dissolved hydrocarbons at the site. The vapor probes are multilevel probes with two screened sample tubes set at depths of 5 and 8.5 feet bgs at each location. The multiple depth intervals assist in determining a vapor concentration gradient.

Each boring location was manually cleared to the final approximate depth of 9.5-feet bgs. Soil samples were collected from the hand auger at depths of 5-feet and 8.5-feet. The collected intervals were screened in the field using a photoionization detector (PID), and described by the supervising geologist using visual and manual methods of the Unified Soil Classification System (USCS).

When each boring reached its final depth, a probe of ¾ inch threaded PVC piping with a six inch long 0.010-inch slotted screen was set in a one foot interval of standard sandpack, allowing approximately 3 inches of sand above and below the screen. Above this sandpack, a one-foot interval of dry, granular bentonite was placed; above that, hydrated granular bentonite was used to fill the boring to the depth of the next sample probe. Sandpack was used around the screened interval of each sample probe to allow soil vapor from the adjacent sediment to reach the probes. Dry granular bentonite was used to ensure that the hydrated bentonite does not seal the probe screen. At the surface, each sample probe has an attached nylon tube for sampling, and was fitted with a gas-tight cap to eliminate the potential for barometric pressure fluctuations to induce vapor transport between the subsurface and the atmosphere. The surface of each probe cluster location was fitted with a

concrete cap and a flush mounted, traffic rated well box with sufficient room to store the tubing lines.

Vapor Probe Sampling

A low-flow pump was used to ensure stagnant or ambient air was removed from the sampling system. Purging consisted of removing approximately three volumes of dead soil gas at a flow rate of ≤ 200 milliliters per minute (mL/min). The purge volume of dead space volume was calculated based on the internal volume of the tubing and annular space surrounding the probe tip. A leak test was conducted to ensure the integrity of the sampling system. A tracer check compound was placed at locations where ambient air could enter the sampling system. The soil gas samples were collected using 6-Liter SUMMA™ canisters at a flow rate of ≤ 200 mL/min for a period of approximately 30 minutes. Soil gas samples were shipped to Lancaster for analysis to determine concentrations of:

- BTEX, naphthalene, and the tracer gas by United States Environmental Protection Agency (USEPA) Method TO-15, and

- oxygen, carbon dioxide, and methane by American Society for Testing and Materials (ASTM) Method D-1946

Soil Vapor Data Evaluation

Soil vapor data were compared to EPA screening levels for shallow gas concentration based on residential land use as outlined in the ADEC Division of Spill and Response Evaluation of Vapor Intrusion Pathway at Contaminated Sites (June 2004). The analytical results indicate that the screening levels for benzene, toluene, and ethylbenzene were exceeded by multiple samples (**Table 7 and Figure 5**). Each of the vapor probe samples exceeded the benzene screening level of 0.98 parts per billion by volume (ppbv) ranging from 2.5 ppbv in VP-1 at 5 feet bgs to 100,000 pbbv in VP-3 at 8.5 feet bgs. The samples from vapor probes VP-2 and VP-3 exceeded the toluene screening level of 1,100 ppbv ranging from 6,000 ppbv in VP-2 at 5 feet bgs to 92,000 ppbv in VP-3 at 8.5 feet bgs. The vapor probe samples (with the exception of VP-1 at 5 feet bgs) exceeded the ethylbenzene screening level of 5.1 ppbv ranging from 9.9 ppbv in VP-1 at 8.5 feet bgs to 2,400 ppbv in VP-2 at 8.5 feet bgs. Due to laboratory dilution of the samples from vapor probes VP-2 and VP-3, the naphthalene method detection limits were raised above the EPA screening level of 5.7 ppbv to levels ranging from 40 ppbv to 600 ppbv. Due to an error in the

field, an ambient air sample was not collected, which prevents evaluation to determine if concentrations in ambient air are influencing the soil gas results.

Management of Investigation-Derived Wastes (IDW)

Development and purge water generated during the soil boring and monitoring well installation activities were containerized in labeled 55-gallon steel drums and disposed of properly at Golden Heart Utilities (GHU). Soil cuttings generated during the soil vapor probe installation activities were containerized in properly labeled 55-gallon steel drums and transported to Alaska Soil Recycling (ASR) for treatment.

Laboratory Data Quality Assurance Summary

As required by ADEC (Technical Memorandum 06-002, dated October 9, 2006), ARCADIS BBL completed laboratory data review checklists for each of the Lancaster reports. The laboratory reports are included as **Appendix B**. The data review checklists are included as **Appendix C**. The following quality assurance (QA) summary describes six parameters, related to the quality and usability of the data presented in this report.

1. Precision - Based on the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) relative percent differences (RPDs), the data meet precision objectives. Multiple field duplicate samples were collected and the analytes were within RPD limits, with the exception of benzene in VP-2 (Chevron) which had a RPD of 59% (ppmv) or 60% (mg/m^3). However, these samples were not collected simultaneously (i.e. with a splitter) which likely accounts for the variability.

2. Accuracy - The data meet accuracy objectives as indicated by the laboratory quality control samples, which were within method/laboratory limits. Analytes were not detected in the trip blanks collected during sampling with the exception of ethanol detected in soil borings SB-2, SB-3 and SB-4 method blanks. According to the laboratory report, the blank values were not subtracted from the analytical results. Ethanol is a contaminate in the methanol used to perform the high level extraction.

3. Representativeness - The data appear to be representative of site conditions.

4. Comparability - Comparability is not applicable to these laboratory results.

5. Completeness - The results appear to be valid and usable, and thus, the laboratory results have 100% completeness.

6. Sensitivity - The sensitivity of the analyses was adequate for the samples as the method detection limits (MDLs) were less than the cleanup levels with the exception of: DRO for soil borings SB-9 (Texaco), SB-10 (Texaco) and SB-4 (Unocal); and benzene for soil borings SB-9 through SB-11 (Texaco), SB-1 though SB-4 (Unocal), SB-6 (Unocal) and SB-7 and SB-8 (Chevron). In addition, the naphthalene method detection limits in soil vapor probes VP-2 and VP-3 samples were raised to a level which is higher than the EPA screening level due to laboratory dilution of the samples. Normal reporting limits for GRO were not attained for soil boring SB-7 (Chevron) and soil borings SB-1, SB-5 and SB-6 (Unocal) due to excessive foaming of the samples.

Conclusions

In order to continue monitoring of the lateral, down-gradient extent of groundwater contamination, the newly installed monitoring well MW-13 will be added to the semi-annual groundwater sampling schedule. In addition, due to the exceedances of the EPA screening levels for benzene, toluene, and ethylbenzene in soil vapor samples, ARCADIS will conduct another vapor sampling event in the spring-summer of 2008. An ambient air sample will also be taken to further investigate the presence of these constituents and the possibility of a vapor intrusion pathway to indoor air. An updated conceptual site model (CSM) is included as **Appendix D**.

If you have any questions, or require additional information, please feel free to contact ARCADIS BBL at 206.726.4717.

Sincerely,

ARCADIS

Michael L. Strickler
Scientist

Rebecca K. Andresen
Project Manager

Copies:

Stacie Frerichs, Chevron Environmental Management Company
Susan Schrader, ARRC
OK Lumber, Fairbanks, Alaska
Sourdough Fuel, Inc., Anchorage, Alaska
Big State Logistics, Inc., Fairbanks, Alaska
Alaska Properties LLC, Fairbanks, Alaska
File

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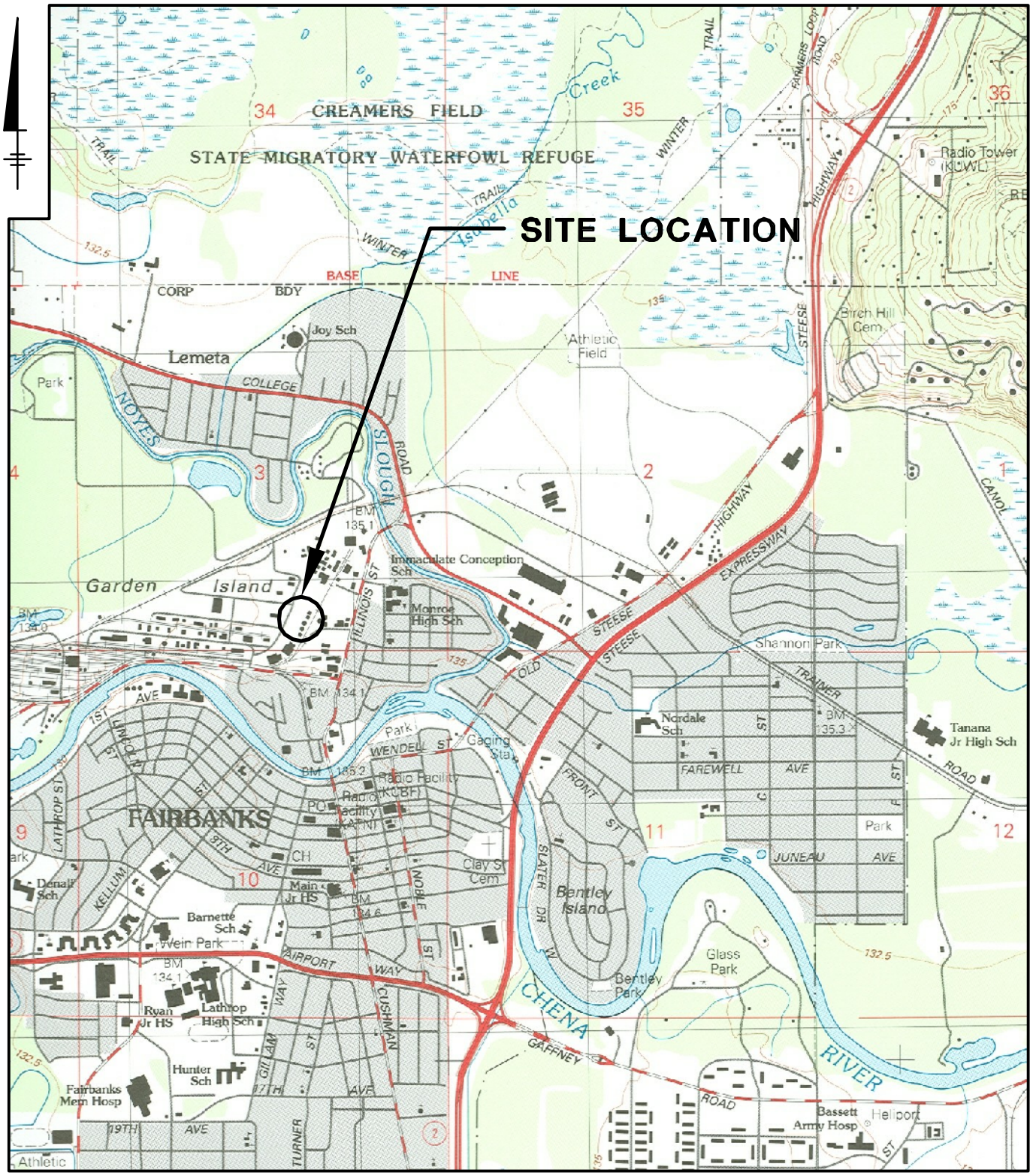
Figures



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: FAIRBANKS (D-2) SE, AK., 1992, FAIRBANKS NORTH STAR BOROUGH, SECTION: 3, TOWNSHIP: 1S, RANGE: 1W

0 2000' 4000'

APPROXIMATE GRAPHIC SCALE

FORMER TEXACO TERMINAL 211815 - 410 DRIVEWAY ST.
FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
FAIRBANKS, ALASKA

SITE LOCATION MAP

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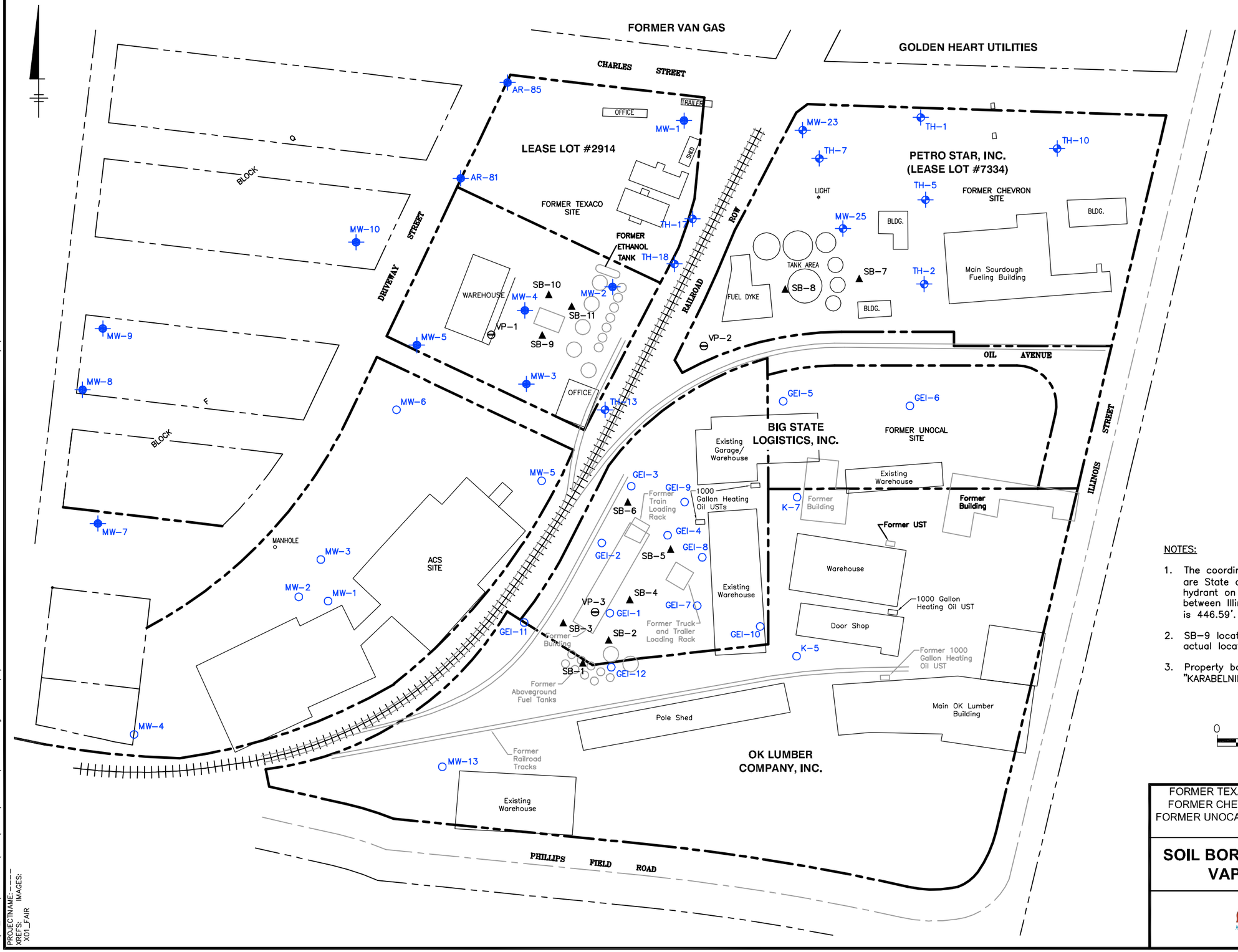
FIGURE
1



LEGEND

- Chevron Monitoring Well (TH)
- Texaco Monitoring Well (AR)
- Unocal Monitoring Well (GEI) (K)
- Vapor Probe (VP)
- Soil Boring

NOTES:

1. The coordinate system is a local grid. Elevations are State of Alaska TBM "X" NE bolt of fire hydrant on the south side of Phillips Field Road between Illinois Street and Driveway Street. Elevation is 446.59'.
2. SB-9 location approximate, unable to locate boring actual location.
3. Property boundary and well locations provided by "KARABELNIKOFF SURVEYING", Date Nov. 12, 2007,

0 120' 240'

GRAPHIC SCALE

FORMER TEXACO TERMINAL 211815 - 410 DRIVEWAY ST.
FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
FAIRBANKS, ALASKA

SOIL BORING, MONITORING WELL AND VAPOR PROBE LOCATIONS

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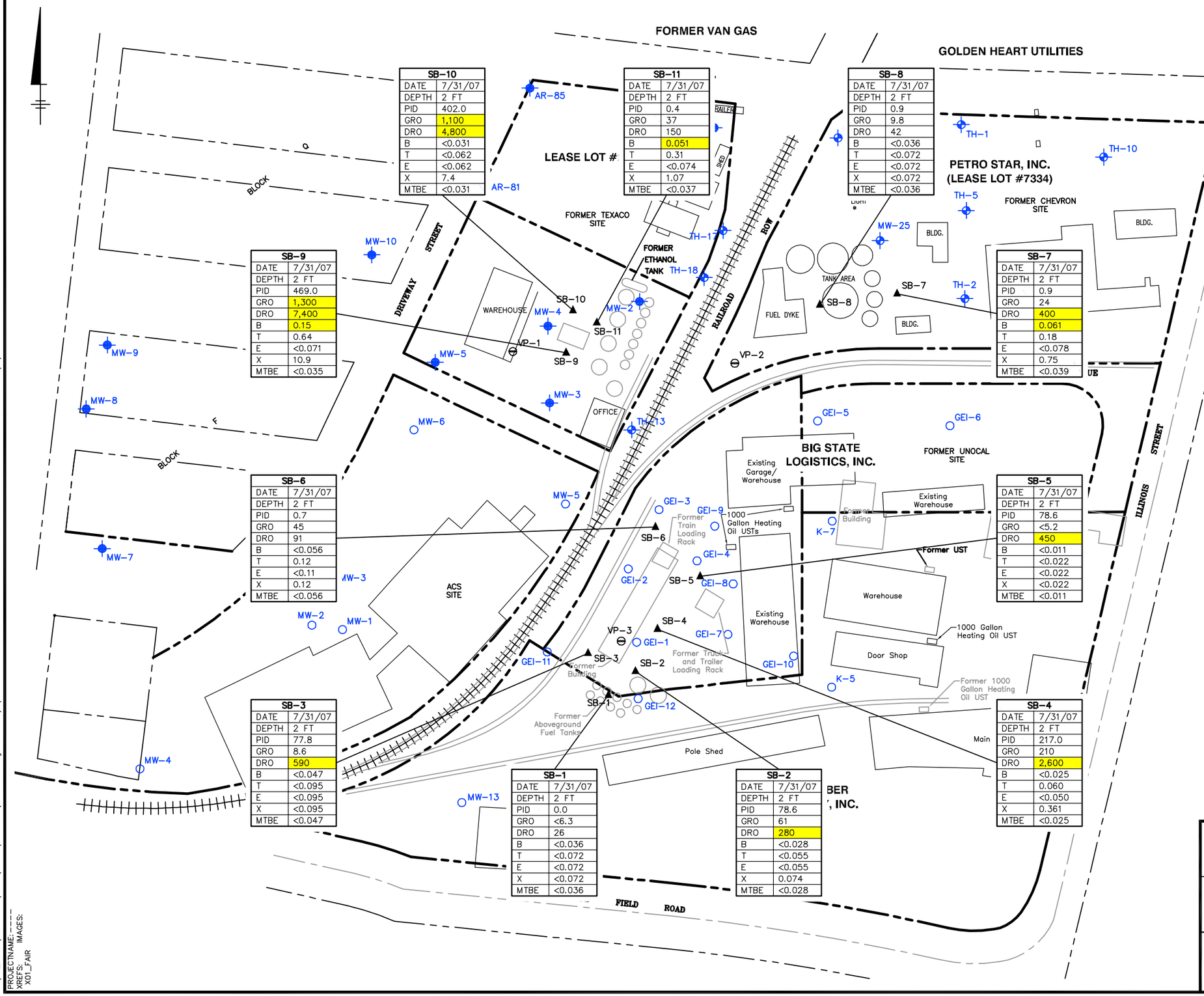
FIGURE
2



SB-10	
DATE	7/31/07
DEPTH	2 FT
PID	402.0
GRO	1,100
DRO	4,800
B	<0.031
T	<0.062
E	<0.062
X	7.4
MTBE	<0.031

SB-11	
DATE	7/31/07
DEPTH	2 FT
PID	0.4
GRO	37
DRO	150
B	0.051
T	0.31
E	<0.074
X	1.07
MTBE	<0.037

SB-8	
DATE	7/31/07
DEPTH	2 FT
PID	0.9
GRO	9.8
DRO	42
B	<0.036
T	<0.072
E	<0.072
X	<0.072
MTBE	<0.036

SB-9	
DATE	7/31/07
DEPTH	2 FT
PID	469.0
GRO	1,300
DRO	7,400
B	0.15
T	0.64
E	<0.071
X	10.9
MTBE	<0.035

SB-7	
DATE	7/31/07
DEPTH	2 FT
PID	0.9
GRO	24
DRO	400
B	0.061
T	0.18
E	<0.078
X	0.75
MTBE	<0.039

SB-6	
DATE	7/31/07
DEPTH	2 FT
PID	0.7
GRO	45
DRO	91
B	<0.056
T	0.12
E	<0.11
X	0.12
MTBE	<0.056

SB-5	
DATE	7/31/07
DEPTH	2 FT
PID	78.6
GRO	<5.2
DRO	450
B	<0.011
T	<0.022
E	<0.022
X	<0.022
MTBE	<0.011

SB-3	
DATE	7/31/07
DEPTH	2 FT
PID	77.8
GRO	8.6
DRO	590
B	<0.047
T	<0.095
E	<0.095
X	<0.095
MTBE	<0.047

SB-4	
DATE	7/31/07
DEPTH	2 FT
PID	217.0
GRO	210
DRO	2,600
B	<0.025
T	0.060
E	<0.050
X	0.361
MTBE	<0.025

SB-1	
DATE	7/31/07
DEPTH	2 FT
PID	0.0
GRO	<6.3
DRO	26
B	<0.036
T	<0.072
E	<0.072
X	<0.072
MTBE	<0.036

SB-2	
DATE	7/31/07
DEPTH	2 FT
PID	78.6
GRO	61
DRO	280
B	<0.028
T	<0.055
E	<0.055
X	0.074
MTBE	<0.028

LEGEND

- Chevron Monitoring Well (TH)
- Texaco Monitoring Well (AR)
- Unocal Monitoring Well (GEI) (K)
- Vapor Probe (VP)
- Soil Boring

SAMPLE LOCATION	
DATE	Sample Date
DEPTH	Sample Depth
PID	Photo-Ionization Detector
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes
MTBE	Methyl Tertiary-Butyl Ether

RESULTS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg), EXCEPT PID WHICH IS REPORTED IN PARTS PER MILLION (ppm).

HIGHLIGHTED VALUES EXCEED THE RESPECTIVE ADEC SOIL CLEANUP LEVEL

NOTES:

1. The coordinate system is a local grid. Elevations are State of Alaska TBM "X" NE bolt of fire hydrant on the south side of Phillips Field Road between Illinois Street and Driveway Street. Elevation is 446.59'.
2. SB-9 location approximate, unable to locate boring actual location.
3. Property boundary and well locations provided by "KARABELNIKOFF SURVEYING", Date Nov. 12, 2007,

0 120' 240'

GRAPHIC SCALE

FORMER TEXACO TERMINAL 211815 - 410 DRIVEWAY ST.
FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
FAIRBANKS, ALASKA

SOIL BORINGS ANALYTICAL

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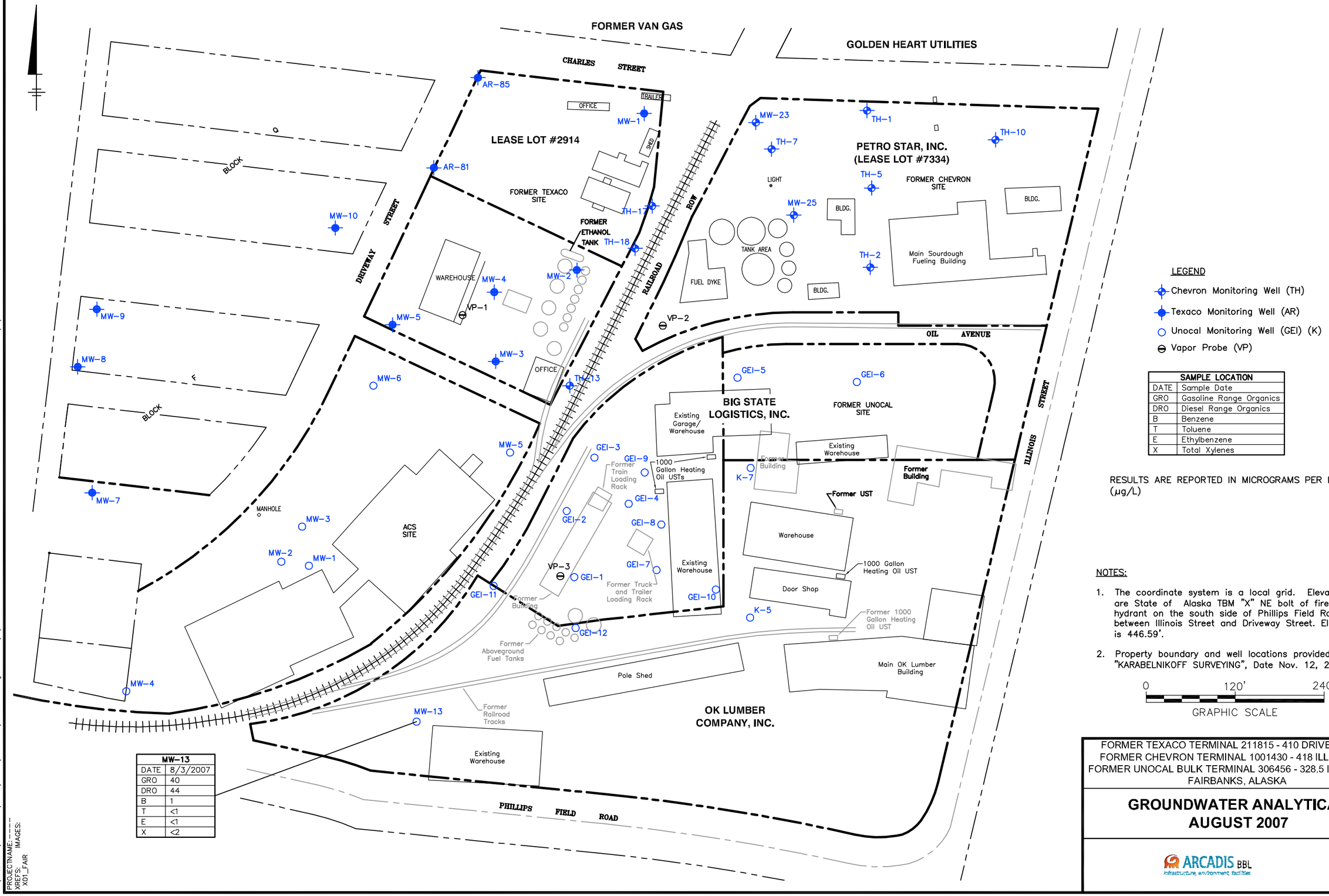
FIGURE 3



LEGEND

- Chevron Monitoring Well (TH)
- Texaco Monitoring Well (AR)
- Unocal Monitoring Well (GEI) (K)
- Vapor Probe (VP)

SAMPLE LOCATION	
DATE	Sample Date
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes

MW-13	
DATE	8/3/2007
GRO	40
DRO	44
B	1
T	<1
E	<1
X	<2

RESULTS ARE REPORTED IN MICROGRAMS PER LITER (µg/L)

NOTES:

1. The coordinate system is a local grid. Elevations are State of Alaska TBM "X" NE bolt of fire hydrant on the south side of Phillips Field Road between Illinois Street and Driveway Street. Elevation is 446.59'.
2. Property boundary and well locations provided by "KARABELNIKOFF SURVEYING", Date Nov. 12, 2007,

0 120' 240'

GRAPHIC SCALE

FORMER TEXACO TERMINAL 211815 - 410 DRIVEWAY ST.
FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
FAIRBANKS, ALASKA

GROUNDWATER ANALYTICAL AUGUST 2007

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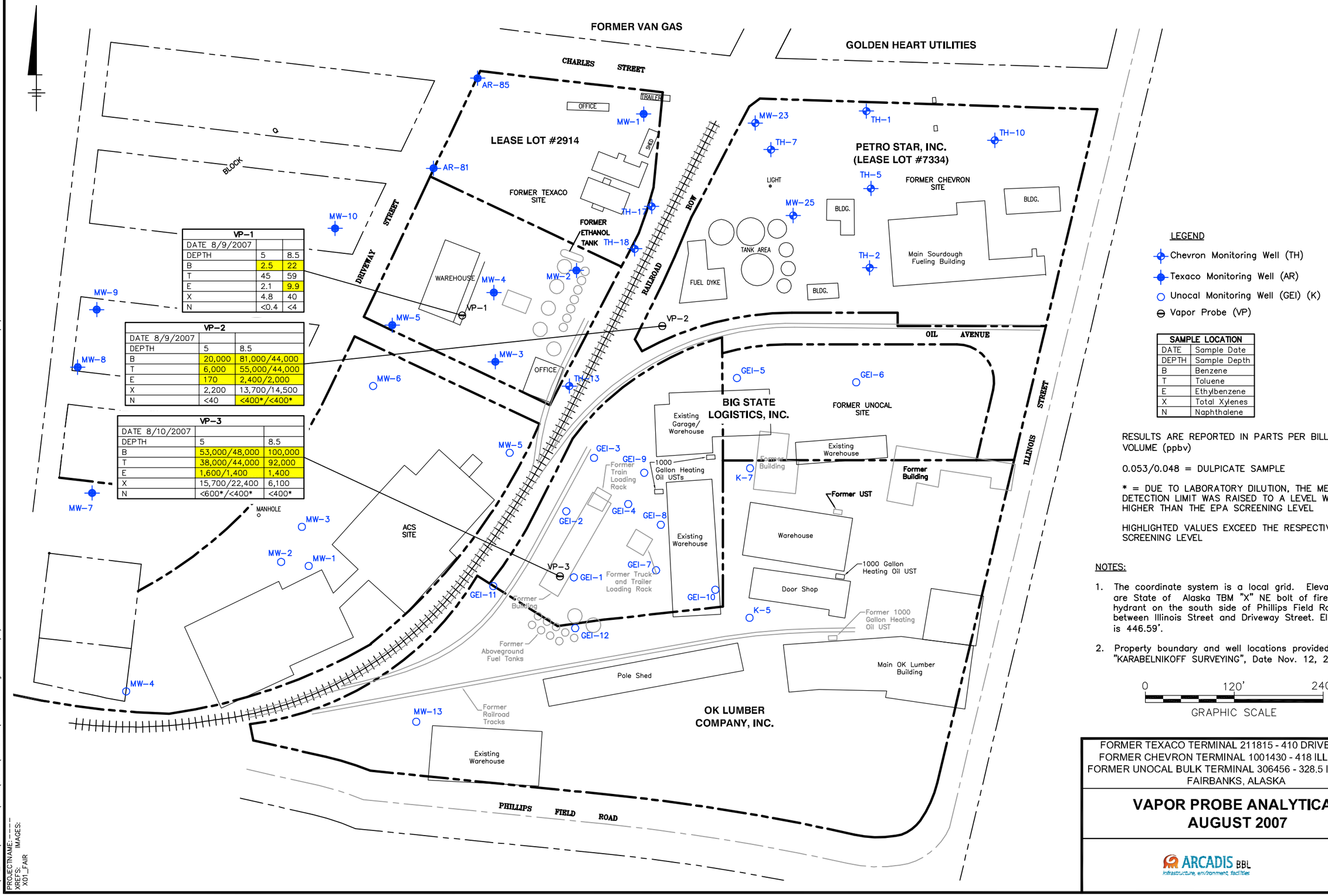
FIGURE 4



VP-1		
DATE 8/9/2007		
DEPTH	5	8.5
B	2.5	22
T	45	59
E	2.1	9.9
X	4.8	40
N	<0.4	<4

VP-2		
DATE 8/9/2007		
DEPTH	5	8.5
B	20,000	81,000/44,000
T	6,000	55,000/44,000
E	170	2,400/2,000
X	2,200	13,700/14,500
N	<40	<400*/<400*

VP-3		
DATE 8/10/2007		
DEPTH	5	8.5
B	53,000/48,000	100,000
T	38,000/44,000	92,000
E	1,600/1,400	1,400
X	15,700/22,400	6,100
N	<600*/<400*	<400*

LEGEND

- Chevron Monitoring Well (TH)
- Texaco Monitoring Well (AR)
- Unocal Monitoring Well (GEI) (K)
- Vapor Probe (VP)

SAMPLE LOCATION	
DATE	Sample Date
DEPTH	Sample Depth
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes
N	Naphthalene

RESULTS ARE REPORTED IN PARTS PER BILLION BY VOLUME (ppbv)

0.053/0.048 = DULPICATE SAMPLE

* = DUE TO LABORATORY DILUTION, THE METHOD DETECTION LIMIT WAS RAISED TO A LEVEL WHICH IS HIGHER THAN THE EPA SCREENING LEVEL

HIGHLIGHTED VALUES EXCEED THE RESPECTIVE EPA SCREENING LEVEL

NOTES:

1. The coordinate system is a local grid. Elevations are State of Alaska TBM "X" NE bolt of fire hydrant on the south side of Phillips Field Road between Illinois Street and Driveway Street. Elevation is 446.59'.
2. Property boundary and well locations provided by "KARABELNIKOFF SURVEYING", Date Nov. 12, 2007,

0 120' 240'

GRAPHIC SCALE

FORMER TEXACO TERMINAL 211815 - 410 DRIVEWAY ST.
FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
FAIRBANKS, ALASKA

VAPOR PROBE ANALYTICAL AUGUST 2007

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE 5

ARCADIS

Tables

Table 1a
Groundwater Elevation Data

Former Chevron 1001430
418 Illinois
Fairbanks, Alaska

Well	Date Sampled	Well Elevation (fasl)	Depth to Water (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation[1] (fasl)
TH-1	06/24/02	440.41	17.80	--	422.61
	09/25/02		15.46	--	424.95
	04/29/03		17.95	--	422.46
	09/03/03		14.99	--	425.42
	03/10/04		18.06	--	422.35
	09/15/04		17.67	--	422.74
	04/19/05		18.55	--	421.86
	09/08/05		16.77	--	423.64
	04/20/06		18.58	--	421.83
	09/14/06		16.46	--	423.95
	03/14/07		18.57	--	421.84
	09/12/07	445.69	16.79	--	428.90
TH-2	06/24/02	438.68	Well not sampled - frozen shut		
	09/25/02		13.77	--	424.91
	04/29/03		16.24	present	422.44
	09/03/03		13.22	--	425.46
	03/10/04		16.31	0.02	422.39
	09/15/04		15.92	0.04	422.79
	04/19/05		16.87	0.10	421.89
	09/08/05		15.03	0.03	423.67
	04/20/06		16.79	0.11	421.98
	09/14/06		14.70	--	423.98
	02/06/07	Well not sampled - monument cover frozen shut			
	03/14/07	Well not sampled - monument cover frozen shut			
	04/30/07		16.25	--	422.43
	05/18/07		16.00	--	422.68
	09/13/07	443.88	14.99	--	428.89
	10/15/07		15.51	--	428.37
TH-4	06/24/02	436.92	13.67	--	423.25
	09/25/02		12.20	--	424.72
	04/29/03		14.70	--	422.22
	09/03/03		11.67	--	425.25
	03/10/04		14.86	--	422.06
	Well decommissioned for railroad construction on 8/19/2004				
TH-5	06/24/02	437.62	13.64	--	423.98
	09/25/02		12.79	present	424.83
	04/29/03		15.14	present	422.48
	09/03/03		12.17	present	425.45
	03/10/04		NM	0.03	NM
	09/15/04		14.84	--	422.78
	04/19/05		15.72	--	421.9
	09/08/05		13.95	0.02	423.69
	04/20/06		15.74	--	421.88
	09/14/06		13.63	--	423.99
	12/01/06		14.89	--	422.73
	12/22/06		15.12	--	422.5
	02/06/07		15.41	--	422.21
	03/14/07		15.68	--	421.94
	04/30/07		15.16	--	422.46
	05/18/07		14.95	--	422.67
	09/13/07	442.80	13.91	--	428.89
	10/15/07		14.41	--	428.39

Table 1a
Groundwater Elevation Data

Former Chevron 1001430
418 Illinois
Fairbanks, Alaska

Well	Date Sampled	Well Elevation (fasl)	Depth to Water (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation[1] (fasl)
TH-7	06/25/02	440.18	16.31	--	423.87
	09/25/02		15.31	--	424.87
	04/29/03		17.79	--	422.39
	09/03/03		14.81	--	425.37
	03/10/04		17.92	--	422.26
	09/15/04		17.47	--	422.71
	04/19/05		18.37	--	421.81
	09/08/05		16.55	--	423.63
	04/20/06		18.35	--	421.83
	09/14/06		16.23	--	423.95
	03/14/07		18.33	--	421.85
	09/12/07	445.34	16.53	--	428.81
TH-10	06/24/02	438.62	14.58	--	424.04
	09/25/02		13.62	--	425.00
	04/29/03		16.03	--	422.59
	09/03/03		13.13	--	425.49
	03/10/04		16.18	--	422.44
	09/15/04		15.80	--	422.82
	04/19/05		16.65	--	421.97
	09/08/05		14.88	--	423.74
	04/20/06		16.66	--	421.96
	09/13/06		14.53	--	424.09
	03/14/07		16.61	--	422.01
	09/12/07	443.81	14.84	--	428.97
TH-13	06/24/02	436.74	13.09	--	423.65
	09/25/02		12.02	--	424.72
	04/29/03		14.50	--	422.24
	09/03/03		11.45	--	425.29
	03/10/04		14.66	--	422.08
	09/23/04		N/A	--	N/A
	04/19/05		15.10	--	421.64
	09/08/05		13.37	--	423.37
	04/20/06	Well not sampled - buried under ice, monument filled			
	09/14/06		12.99	--	423.75
	03/14/07		15.09	--	421.65
	09/13/07	441.94	13.30	--	428.64
TH-17	06/24/02	435.38	11.60	--	423.78
	09/25/02		10.59	--	424.79
	04/29/03		11.20	--	424.18
	09/03/03		10.08	--	425.3
	03/10/04		13.20	--	422.18
	09/15/04		12.77	--	422.61
	04/19/05	Well not sampled - buried under ice, monument filled			
	09/08/05		11.87	--	423.51
	04/20/06	Well not sampled - buried under ice, monument filled			
	09/14/06		11.93	--	423.45
	03/14/07		13.65	--	421.73
	09/13/07	440.57	11.77	--	428.80

Table 1a
Groundwater Elevation Data

Former Chevron 1001430
418 Illinois
Fairbanks, Alaska

Well	Date Sampled	Well Elevation (fasl)	Depth to Water (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation[1] (fasl)
TH-18	06/24/02	435.77	Well not sampled - frozen shut		
	09/25/02		11.01	--	424.76
	04/29/03		Well not sampled - frozen shut		
	09/03/03		10.48	--	425.29
	03/10/04		13.61	--	422.16
	09/23/04		N/A	--	N/A
	04/19/05		Well not sampled - buried under ice, monument filled		
	09/08/05		12.28	--	423.49
	04/20/06		Well not sampled - buried under ice, monument filled		
	09/14/06		11.53	--	424.24
	03/15/07		14.05	--	421.72
	09/13/07	440.95	12.40	--	428.55
MW-23	06/25/02	436.67	14.32	--	422.35
	09/25/02		11.80	--	424.87
	04/29/03		14.21	--	422.46
	09/03/03		11.30	--	425.37
	03/10/04		14.38	--	422.29
	09/15/04		13.97	--	422.70
	04/19/05		14.86	--	421.81
	09/08/05		13.06	--	423.61
	04/20/06		14.88	--	421.79
	09/13/06		12.73	--	423.94
	03/14/07		Well not sampled - under a large pile of lumber		
	09/12/07	441.84	13.03	--	428.81
MW-25	06/25/02	440.77	16.89	present	423.88
	09/25/02		15.94	present	424.83
	04/29/03		18.40	present	422.37
	09/03/03		15.40	present	425.37
	03/10/04		18.46	0.05	422.35
	09/15/04		18.03	0.15	422.86
	04/19/05		19.05	0.16	421.85
	09/08/05		17.23	0.13	423.64
	04/20/06		18.93	0.15	421.96
	09/13/06		17.16	0.13	423.71
	12/01/06		18.16	--	422.61
	12/22/06		18.34	--	422.43
	02/06/07		18.63	0.03	422.16
	03/14/07		18.88	0.01	421.90
	04/30/07		18.40	--	422.37
	05/18/07		18.15	--	422.62
	09/13/07	445.85	17.08	--	428.77
	10/15/07		17.60	--	428.25

Notes:
TOC = Top of casing
fasl = feet above sea level
N/A = Not applicable
LNAPL = Light non-aqueous phase liquid
Bold Type = Results of most recent gauging event
[1]Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.

Table 1b
Groundwater Elevation Data

Former Texaco 211815
401 Driveway Street
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (fasl)	Depth to Groundwater (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation[1] (fasl)
AR-81	06/25/02	436.99	13.28	--	423.71
	09/24/02		12.34	--	424.65
	04/29/03		14.82	--	422.17
	09/03/03		11.83	--	425.16
	03/10/04			Well Frozen	
	09/16/04		14.53	--	422.46
	04/19/05		15.43	--	421.56
	09/07/05		13.60	--	423.39
	04/20/06		15.46	--	421.53
	09/12/06		13.30	--	423.69
	03/15/07		15.40	--	421.59
	09/10/07	444.44	13.61	--	430.83
AR-82	06/25/02	437.47	13.64	--	423.83
	09/24/02		12.69	--	424.78
	04/29/03		15.13	--	422.34
	09/03/03		12.17	--	425.30
	Well Removed from Sampling Program in September 2003				
AR-85	06/25/02	437.23	13.45	--	423.78
	09/24/02		12.49	--	424.74
	04/29/03		15.00	--	422.23
	09/03/03		12.00	--	425.23
	03/10/04			Well Beneath Snow bank	
	09/16/04		14.68	--	422.55
	04/19/05			Well buried and surrounded by equipment	
	09/07/05		13.79	--	423.44
	04/20/06		15.61	--	421.62
	09/12/06		13.45	--	423.78
	03/14/07			Well buried under snow bank	
	09/10/07	444.65	13.74	--	430.91
MW-1	10/23/03	436.36	12.28	--	424.08
	03/10/04		14.14	--	422.22
	09/16/04		13.72	--	422.64
	04/19/05			Well Beneath Snow bank	
	09/07/05		12.77	--	423.59
	04/20/06			Well buried and surrounded by equipment	
	09/12/06		12.47	--	423.89
	03/15/07		14.57	--	421.79
	09/10/07	441.46	12.76	--	428.70
MW-2	10/23/03	437.06	13.35	--	423.71
	03/10/04		14.89	0.04	422.20
	09/16/04		14.51	0.03	422.57
	04/19/05		15.47	0.10	421.67
	09/07/05		13.58	0.01	423.49
	04/20/06			well not sampled - covered with snow and gravel	
	08/11/06		13.85	0.01	423.22
	09/12/06		13.26	--	423.80
	12/01/06		14.56	--	422.50
	12/22/06		14.80	--	422.26
	02/06/07		15.08	--	421.98
	03/16/07		15.31	--	421.75
	04/30/07			Well not sampled due to ice in well	
	05/18/07			Well not sampled due to ice in well	
	09/10/07	442.23	13.56	--	428.67
	10/15/07		14.04	--	428.19

Table 1b
Groundwater Elevation Data

Former Texaco 211815
401 Driveway Street
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (fasl)	Depth to Groundwater (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation[1] (fasl)
MW-3	10/23/03	437.49	13.60	--	423.89
	03/10/04		15.39	--	422.10
	09/16/04		14.99	--	422.50
	04/19/05		15.88	--	421.61
	09/07/05		14.10	--	423.39
	04/20/06		15.87	--	421.62
	09/12/06		13.78	--	423.71
	03/16/07		15.84	--	421.65
	09/10/07	442.67	14.07	--	428.60
MW-4	10/22/03	437.33	13.70	Present	423.63
	03/10/04		15.25	0.23	422.26
	09/16/04		14.85	0.03	422.50
	04/19/05		well not sampled - covered with ice, monument filled with ice and water		
	09/07/05		13.92	--	423.41
	04/20/06		15.74	0.32	421.85
	08/11/06		14.19	--	423.14
	09/12/06		13.63	--	423.70
	12/01/06		14.93	--	422.40
	12/22/06		15.11	--	422.22
	02/06/07		15.43	--	421.90
	03/16/07		16.06	0.46	421.64
	04/30/07		15.15	--	422.18
	05/18/07		14.91	--	422.42
	09/10/07	442.52	13.91	SHEEN	428.61
	10/15/07		14.45	--	428.07
MW-5	10/23/03	436.37	12.58	--	423.79
	03/10/04		14.34	--	422.03
	09/16/04		13.92	--	422.45
	04/19/05		well not sampled - covered with ice and ponded water		
	09/07/05		13.01	--	423.36
	04/20/06		well not sampled - covered with ice and ponded water		
	09/12/06		12.70	--	423.67
	03/15/07		15.78	--	420.59
	09/10/07	441.54	13.00	--	428.54
MW-7	10/03/05	438.12	13.96	--	424.16
	04/20/06		16.84	--	421.28
	09/11/06		14.74	--	423.38
	03/16/07		16.78	--	421.34
	09/09/07	443.32	15.05	--	428.27
MW-8	10/03/05	436.51	12.32	--	424.19
	04/20/06		15.23	--	421.28
	09/11/06		13.12	--	423.39
	03/16/07		15.18	--	421.33
	09/09/07	441.69	13.41	--	428.28
MW-9	10/03/05	436.39	12.18	--	424.21
	04/20/06		15.06	--	421.33
	09/11/06		12.90	--	423.49
	03/16/07		14.99	--	421.40
	09/09/07	441.56	13.21	--	428.35
MW-10	10/03/05	437.32	12.98	--	424.34
	04/20/06		15.82	--	421.50
	09/11/06		13.66	--	423.66
	03/14/07		Well buried under snow bank		
	09/09/07	442.52	13.98	--	428.54

Notes:
TOC = Top of casing
fasl = feet above sea level
N/A = Not applicable
LNAPL = Light non-aqueous phase liquid
[1]Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.
Bold Type = Results of most recent gauging event

Table 1c
Groundwater Elevation Data

Former Unocal 306456
328.5 Illinois Street
Fairbanks, Alaska

Well	Date Sampled	Well Elevation[1] (fasl)	Depth to Water (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation[2] (fasl)
GEI-1	10/07/02	443.88	15.20	--	428.68
	09/03/03		13.83	0.01	430.06
	04/23/04		17.41	--	426.47
	09/16/04		17.22	0.01	426.67
	04/20/05		18.13	--	425.75
	10/01/05		14.08	--	429.80
	04/18/06		Well not sampled		
	09/17/06		14.98	--	428.90
	03/16/07		17.06	0.05	426.86
	09/12/07	443.91	15.28	--	428.63
GEI-2	10/07/02	444.93	15.25	--	429.68
	09/03/03		13.94	--	430.99
	04/23/04		17.44	--	427.49
	09/16/04		17.22	--	427.71
	04/20/05		18.05	--	426.88
	10/01/05		15.1	--	429.83
	04/18/06		Well not sampled		
	09/17/06		15.92	--	429.01
	03/16/07		Well not sampled-covered with equipment		
	09/12/07	444.84	16.21		428.63
GEI-3	10/07/02	444.29	14.7	--	429.59
	09/03/03		13.42	--	430.87
	04/23/04		16.78	--	427.51
	09/16/04		16.65	--	427.64
	04/20/05		Well not sampled		
	10/01/05		14.55	--	429.74
	04/18/06		17.45	--	426.84
	09/16/06		15.35	--	428.94
	03/17/07		17.43	--	426.86
	09/11/07	444.29	15.65		428.64
GEI-4	10/07/02	444.56	15.68	0.67	429.42
	09/03/03		13.64	0.01	430.93
	04/23/04		17.2	--	427.36
	09/16/04		17.01	0.01	427.56
	04/20/05		17.8	--	426.76
	10/01/05		14.77	--	429.79
	04/18/06		17.72	--	426.84
	09/16/06		15.61	--	428.95
	11/30/06		16.88	0.02	427.70
	12/22/06		17.13	--	427.43
	02/06/07		17.39	--	427.17
	03/17/07		17.65	--	426.91
	04/30/07		17.07	--	427.49
	05/18/07		16.87	--	427.69
	09/11/07	444.56	15.98		428.58
	10/15/07		16.48	--	428.08
GEI-5	10/07/02	441.93	12.35	--	429.58
	09/03/03		11.11	--	430.82
	04/23/04		Well not sampled		
	09/16/04		14.26	--	427.67
	04/20/05		15.24	--	426.69
	10/01/05		12.23	--	429.7
	04/18/06		Well not sampled		
	09/16/06		12.98	--	428.95
	03/16/07		Well not sampled due to damage		
	09/11/07		Well not sampled due to damage		

Table 1c
Groundwater Elevation Data

Former Unocal 306456
328.5 Illinois Street
Fairbanks, Alaska

Well	Date Sampled	Well Elevation[1] (fasl)	Depth to Water (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation[2] (fasl)
GEI-6	10/07/02	441.83	12.2	--	429.63
	09/03/03		10.94	--	430.89
	04/23/04		Well not sampled		
	09/16/04		14.15	--	427.68
	04/20/05		Well not sampled		
	10/01/05		12.09	--	429.74
	04/18/06		Well not sampled		
	09/16/06		12.82	--	429.01
	03/17/07		14.87	--	426.96
	09/11/07	441.97	13.11	--	428.86
GEI-7	09/03/03	444.26	13.24	0.01	431.03
	04/23/04		17.07	0.41	427.52
	09/16/04		16.55	0.09	427.78
	04/20/05		18.11	0.93	426.89
	10/01/05		14.44	0.01	429.83
	04/18/06		Well not sampled		
	09/17/06		15.27	--	428.99
	02/06/07		Well not sampled - Unable to locate		
	03/16/07		Well not sampled-covered with forklifts		
	04/30/07		16.69	--	427.57
	05/18/07		16.48	--	427.78
	09/12/07	444.22	15.56	--	428.66
	10/15/07		16.14	--	428.08
GEI-8	09/03/03	444.55	13.64	--	430.91
	04/23/04		17.15	--	427.4
	09/16/04		16.95	--	427.6
	04/20/05		17.77	0.14	426.89
	10/01/05		14.73	--	429.82
	04/18/06		17.71	--	426.84
	09/16/06		15.92	--	428.63
	11/30/06		16.85	0.01	427.71
	12/22/06		17.07	--	427.48
	02/06/07		17.35	--	427.2
	03/16/07		17.60	--	426.95
	04/30/07		Well not sampled due to ice		
	05/08/07		Well not sampled due to ice		
	09/11/07	444.54	15.87	--	428.67
	10/15/07		16.47	--	428.07
GEI-9	09/03/03	444.32	13.43	0.01	430.90
	04/23/04		16.87	--	427.45
	09/16/04		16.67	--	427.65
	04/20/05		17.47	0.01	426.86
	10/01/05		14.53	--	429.79
	04/18/06		17.39	--	426.93
	09/16/06		15.37	--	428.95
	03/17/07		17.41	--	426.91
	09/11/07	444.32	15.63	--	428.69
GEI-10	10/01/05	443.48	13.74	--	429.74
	04/1806		16.73	--	426.75
	09/16/06		14.29	--	429.19
	03/16/07		Well not sampled-unable to locate		
	09/09/07	443.31	14.58	--	428.73

Table 1c
Groundwater Elevation Data

Former Unocal 306456
328.5 Illinois Street
Fairbanks, Alaska

Well	Date Sampled	Well Elevation[1] (fasl)	Depth to Water (feet from TOC)	Depth to LNAPL (feet)	Groundwater Elevation[2] (fasl)
GEI-11	10/01/05	443.81	14.10	--	429.71
	04/18/06		17.58	--	426.23
	09/17/06		14.91	--	428.90
	11/30/06		16.30	0.14	427.62
	12/24/06		16.44	--	427.37
	02/06/07		16.69	--	427.12
	03/16/07		16.96	0.02	426.87
	04/30/07		16.73	0.47	427.46
	05/18/07		16.30	0.20	427.67
	09/12/07	443.78	15.22	--	428.56
	10/15/07		15.81	--	427.97
GEI-12	10/01/05	443.55	13.72	--	429.83
	04/1806		16.71	--	426.84
	09/16/06		14.61	--	428.94
	03/16/07		16.65	0.04	426.93
	09/09/07	443.52	14.89	--	428.63
MW-2	10/01/05	444.07	14.43	--	429.64
	04/1806		17.47	--	426.60
	09/15/06		15.31	--	428.76
	03/17/07		17.36	--	426.71
	09/09/07	444.03	15.60	--	428.43
MW-4	10/01/05	NS	Well not sampled		
	04/1806		20.63	--	--
	09/15/06		18.48	--	--
	03/16/07		20.60	--	--
	09/09/07	447.09	18.82	--	428.27
MW-5	10/01/05	444.05	14.3	--	429.75
	04/1806		17.33	--	426.72
	09/15/06		15.11	--	428.94
	03/16/07		17.31	--	426.74
	09/12/07	444.01	15.42	--	428.59
MW-6	10/01/05	NS	Well not sampled		
	04/1806		20.26	--	--
	09/15/06		18.11	--	--
	03/16/07		20.23	--	--
	09/11/07	446.92	18.53	--	428.39
MW-13	07/26/07	443.29	15.45	--	427.84
	09/09/07		14.76	--	428.53
K-5	10/01/05	443.55	13.82	--	429.73
	04/1806		Well not sampled		
	09/17/06		15.14	--	428.41
	03/16/07		Well not sampled-unable to open Robco cover		
	09/09/07	443.75	15.02	--	428.73
K-7	10/01/05	442.49	12.72	--	429.77
	04/1806		16.92	--	425.57
	09/16/06		13.49	--	429.00
	03/16/07		Well not sampled-unable to locate		
	09/09/07	442.55	13.78	--	428.77

Notes:
TOC = Top of casing
fasl = feet above sea level
N/A = Not applicable
NS = Not surveyed
LNAPL = Light non-aqueous phase liquid
Bold Type = Results of most recent gauging event
[1]Elevations are relative to an on-site Temporary Benchmark, based on vertical control point Fire Hydrant 08-05.
[2]Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.

Table 2a
Groundwater Analytical Data

Former Chevron 1001430
418 Illinois
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL (µg/L):		**1,300**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
TH-1	06/24/02	3,160	103,000		1.61	<2.50	56.1	317
	09/25/02	1,510	7,400		2.73	3.52	48.4	325
	04/29/03	1,500	33,000	2,900	<2.0	<0.5	27	120
	09/03/03	1,500	47,000	7,700	<2.0	<0.5	27	160
	03/10/04	2,300	31,000	3,800	<2.0	<0.5	30	160
	09/15/04	1,700	62,000	7,600	1.7	<0.5	21	120
	04/19/05	1,200	64,000	<3,900	<2.0	<0.5	15	68
	09/08/05	1,100	25,000	1,100	1.3	<0.5	16	95
	04/20/06	740	12,000	710	0.7	<0.5	11	45
	09/14/06	860	13,000	<490	1.1	<0.5	12	69
	03/14/07	600	4,400	<210	<2	<1	8	30
	03/14/07[D]	600	5,100	<200	<2	<1	8	30
	09/12/07	600	8,600	<200	1	<1	7	30
	09/12/07[D]	500	7,800	<200	1	<1	6	20
TH-2	06/24/02	Well not sampled-frozen shut						
	09/25/02	38,900	15,300		1,540	5,220	1,030	6,600
	04/29/03	LNAPL present - well not sampled						
	09/03/03	37,000	190,000	150,000	730	3,800	860	6,600
	03/10/04	LNAPL present - 0.02' - well not sampled						
	09/15/04	LNAPL present - 0.04' - well not sampled						
	04/19/05	LNAPL present - 0.1' - well not sampled						
	09/08/05	LNAPL present - 0.03' - well not sampled						
	04/20/06	LNAPL present - 0.11' - well not sampled						
	09/14/06	25,000	38,000	44,000	560	630	1,000	5,800
	03/14/07	Well not sampled-buried under ice						
	09/13/07	30,000	98,000	62,000	600	2,300	800	5,600
TH-4	06/24/02	178	3,490		5.49	1.21	1.45	19.1
	09/25/02	8,020	9,350		903	542	90.7	965
	04/29/03	11,000	41,000	3,500	970	1,200	73	1,200
	09/03/03	7,100	120,000	8,100	420	680	35	880
	03/10/04	14,000	150,000	10,000	1,600	940	82	1,300
		Well decommissioned for railroad construction on 8/19/2004						
TH-5	06/24/02	1,100	34,500		6.05	1.45	18.3	98.1
	09/25/02	LNAPL present - well not sampled						
	04/29/03	LNAPL present - well not sampled						
	09/03/03	LNAPL present - well not sampled						
	03/10/04	LNAPL present - 0.03' - well not sampled						
	09/15/04	1,300	77,000	24,000	6.6	1.5	24	140
	04/19/05	1,100	180,000	<10,000	3.2	1.1	19	100
	09/08/05	LNAPL present - 0.02' - well not sampled						
	04/20/06	1,300	250,000	100,000	2.5	0.9	17	130
	09/14/06	700	7,700	<500	2.0	0.6	9.0	56
	03/14/07	900	70,000	38,000	<10	<1	10	60
	09/13/07	900	13,000	6,100	4	<1	7	40
TH-7	06/25/02	163	5,160	--	1.35	<0.500	1.00	4.67
	09/25/02	153	4,630	--	0.881	<0.500	<0.500	1.48
	04/29/03	260	12,000	2,800	1.0	<0.5	0.9	2.3
	09/03/03	140	8,000	3,300	1.6	<0.5	3.6	3.5
	03/10/04	250	8,900	2,300	<2.0	<0.5	0.7	<1.5
	09/15/04	210	14,000	2,800	0.6	<0.5	<0.5	<1.5
	04/19/05	210	15,000	560	0.7	<0.5	<0.5	<1.5
	09/08/05	120	1,800	1,300	<0.5	<0.5	<0.5	1.6
	04/20/06	91	3,700	2,300	<0.5	<0.5	<0.5	<1.5
	09/14/06	100	790	430	0.6	<0.5	<0.5	<1.5
	03/14/07	50	1,200	480	<1	<1	<1	<2
	09/12/07	100	1,100	540	<1	<1	<1	<2

Table 2a
Groundwater Analytical Data

Former Chevron 1001430
418 Illinois
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL (µg/L):		**1,300**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
TH-10	06/24/02	<50.0	236	--	<0.200	<0.500	<0.500	<1.00
	09/25/02	<80.0	144	--	<0.500	<0.500	<0.500	<1.00
	04/29/03	<10	320	1,800	<0.5	<0.5	<0.5	<1.5
	04/29/03[D]	<10	320	1,800	<0.5	<0.5	<0.5	<1.5
	09/03/03	<10	230	1,600	<0.5	<0.5	<0.5	<1.5
	09/3/03[D]	<10	300	2,000	<0.5	<0.5	<0.5	<1.5
	03/10/04	<10	300	1,600	<0.5	<0.5	<0.5	<1.5
	03/10/04[D]	<10	290	1,700	<0.5	<0.5	<0.5	<1.5
	09/15/04	10	210	990	<0.5	<0.5	<0.5	<1.5
	09/15/04[D]	<10	220	1,100	<0.5	<0.5	<0.5	<1.5
	04/19/05	<10	530	2,600	<0.5	<0.5	<0.5	<1.5
	04/19/05[D]	<10	490	2,500	<0.5	<0.5	<0.5	<1.5
	09/08/05	<10	230	1,500	<0.5	<0.5	<0.5	<1.5
	9/8/2005[D]	<10	220	1,400	<0.5	<0.5	<0.5	<1.5
	04/20/06	<10	1,100	5,500	<0.5	<0.5	<0.5	<1.5
	04/20/06[D]	<10	620	2,900	<0.5	<0.5	<0.5	<1.5
	09/13/06	<10	110	600	<0.5	<0.5	<0.5	<1.5
	09/13/06[D]	<10	140	790	<0.5	<0.5	<0.5	<1.5
	03/14/07	<10	350	1,200	<1	<1	<1	<2
	09/12/07	<10	200	1,000	<1	<1	<1	<2
TH-13	06/24/02	264	9,400	--	2.92	0.955	2.82	22.2
	09/25/02	87.0	2,180	--	2.28	<0.500	0.953	5.23
	04/29/03	1,100	16,000	2,100	84	1.3	5.8	30
	09/03/03	360	8,800	1,400	8.3	<0.5	2	14
	03/10/04	1,600	30,000	2,200	120	10	16	75
	09/23/04	3,200	21,000	<400	200	36	43	190
	04/19/05	1,700	110,000	<3,900	14	34	25	210
	09/08/05	1,700	5,100	2,400	83	100	42	170
	04/20/06	Well not sampled - buried under ice, monument filled						
	09/14/06	440	2,500	110	59	0.6	4.4	12
	03/15/07	300	2,000	480	60	<1	1	2
	09/13/07	500	3,000	<200	100	<1	4	7
TH-17	06/24/02	1,820	10,500	--	175	<2.50	104	234
	09/25/02	2,860	8,900	--	198	6.32	105	269
	04/29/03	5,000	23,000	6,900	57	9.5	270	860
	09/03/03	1,800	36,000	25,000	170	2.5	120	220
	03/10/04	1,200	44,000	10,000	17	3.5	79	150
	09/15/04	780	81,000	24,000	5.2	3.4	44	97
	04/19/05	Well not sampled - buried under ice, monument filled						
	09/08/05	990	8,900	4,100	13	2.0	49	140
	04/20/06	Well not sampled - buried under ice, monument filled						
	09/14/06	1,400	3,400	1,500	16	2.1	70	150
	03/15/07	1,500	4,100	580	4	2	50	100
	09/13/07	1,300	9,100	2,500	10	2	70	100
TH-18	06/24/02	Well not sampled - frozen shut						
	09/25/02	1,930	4,730		277	<5.00	70.5	139
	04/29/03	Well Frozen - well not sampled						
	09/03/03	2,600	3,300	860	290	5.4	120	210
	03/10/04	2,600	2,700	1,400	87	3.8	140	240
	09/23/04	1,100	1,300	470	17	0.7	64	72
	04/19/05	Well not sampled - buried under ice, monument filled						
	09/08/05	1,300	1,400	510	56	2	71	140
	04/20/06	Well not sampled - buried under ice, monument filled						
	09/14/06	2,200	1,300	<98	86	2.4	130	230
	03/15/07	2,100	1,800	130	40	1	100	100
	09/13/07	1,200	2,000	390	60	2	100	100

Table 2a
Groundwater Analytical Data

Former Chevron 1001430
418 Illinois
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL (µg/L):		**1,300**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
MW-23	06/25/02	<50.0	1,370		0.230	<0.500	<0.500	<1.00
	09/25/02	<80.0	2,800		<0.500	<0.500	0.522	1.05
	04/29/03	48	2,800	800	0.6	<0.5	<0.5	<1.5
	09/03/03	77	1,100	660	<0.5	<0.5	3.2	2.3
	03/10/04	26	22,000	5,800	<0.5	<0.5	<0.5	<1.5
	09/15/04	31	9,300	2,600	<0.5	<0.5	<0.5	<1.5
	04/19/05	34	9,900	580	<0.5	<0.5	<0.5	<1.5
	09/08/05	31	1,000	580	<0.5	<0.5	<0.5	<1.5
	04/20/06	Well not sampled - monument flooded						
	09/13/06	38	1,000	440	<0.5	<0.5	<0.5	<1.5
	03/04/07	Well not sampled-under equipment						
	09/12/07	30	1,400	440	<1	<1	<1	<2
MW-25	06/25/02	LNAPL present - well not sampled						
	09/25/02	LNAPL present - well not sampled						
	04/29/03	LNAPL present - well not sampled						
	09/03/03	LNAPL present - well not sampled						
	03/10/04	LNAPL present - 0.05' - well not sampled						
	09/15/04	LNAPL present - 0.15' - well not sampled						
	04/19/05	LNAPL present - 0.16' - well not sampled						
	09/08/05	LNAPL present - 0.13' - well not sampled						
	04/20/06	LNAPL present - 0.15' - well not sampled						
	09/13/06	LNAPL present - 0.13' - well not sampled						
	03/14/07	LNAPL present - 0.01' - well not sampled						
	09/13/07	1,300	1,700	210	10	2	30	100
Trip Blank	04/29/03	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/03/03	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/10/04	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/15/04	<10	--	--	<0.5	<0.5	<0.5	<1.5
	04/19/05	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/08/05	<10	--	--	<0.5	<0.5	<0.5	<1.5
	04/19/06	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/13/06	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/14/07	<10	--	--	<1	<1	<1	<2
	09/12/07	<10	--	--	<1	<1	<1	<2

Notes:
All results are reported in micrograms per liter (µg/l)
GRO = Gasoline range organics
DRO = Diesel range organics
RRO = Residual range organics
GCL = ADEC 18 AA 75 Groundwater Cleanup Level
LNAPL = Light non-aqueous phase liquid
Bold Type = Results of most recent samping event
Highlighted concentrations are greater than the applicable ADEC GCL.
[D] = Duplicate sample

Table 2b
Groundwater Analytical Data

Former Texaco 211815
401 Driveway Street
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Xylenes
ADEC GCL (µg/L):		**1,300**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
AR-81	06/25/02	<50.0	1,130		0.920	<0.500	0.520	<1.00
	09/24/02	212	4,550		7.56	2.11	5.14	8.95
	04/29/03	150	2,300	1,000	2.5	<0.5	1	1.8
	09/03/03	140	2,000	2,400	3.1	<0.5	1.6	2.8
	03/10/04	Well Frozen						
	09/16/04	69	2,200	3,200	1	<0.5	<0.5	<1.5
	04/19/05	110	2,000	3,700	0.8	<0.5	0.6	1.6
	09/07/05	68	1,400	1,200	0.5	<0.5	<0.5	<1.5
	04/20/06	95	3,100	160	0.6	<0.5	<0.5	<1.5
	09/12/06	100	900	310	0.7	<0.5	<0.5	<1.5
	03/15/07	100	1,800	250	<1	<1	<1	<2
	09/10/07	100	1,100	110	<1	<1	<1	<2
AR-82	06/25/02	219	72,800		0.200	<0.500	0.525	6.33
	09/24/02	90.3	1,620		0.269	<0.500	<0.500	1.25
	04/29/03	3,500	390,000	<20,000	<2.5	<2.5	2.5	<25
	09/03/03	83	24,000	1,800	<0.5	1.1	2.9	8.6
	Well Removed from Sampling Program in September 2003							
AR-85	06/25/02	<50.0	964		<0.200	<0.500	<0.500	<1.00
	09/24/02	<50.0	958		0.268	<0.500	<0.500	<1.00
	04/29/03	<10	620	530	1	<0.5	<0.5	<1.5
	09/03/03	<10	640	510	0.5	<0.5	<0.5	<1.5
	09/03/03[D]	<10	640	570	<0.5	<0.5	<0.5	<1.5
	03/10/04	Well Beneath Snow bank						
	09/16/04	12	880	1,300	2.2	<0.5	<0.5	<1.5
	09/16/04[D]	13	900	1,300	2.2	<0.5	<0.5	<1.5
	04/19/05	Well buried and surrounded by equipment						
	09/07/05	<10	450	350	<0.5	<0.5	<0.5	<1.5
	9/7/2005[D]	<10	630	910	<0.5	<0.5	<0.5	<1.5
	04/20/06	<10	850	1,200	<0.5	<0.5	<0.5	<1.5
	09/12/06	<10	480	200	<0.5	<0.5	<0.5	<1.5
	03/15/07	Well not sampled-buried under snow bank						
	09/10/07	<10	450	220	<1	<1	<1	<2
MW-1	10/23/03	97	8,200		<0.5	<0.5	<0.5	<1.5
	03/10/04	33	4,100	1,400	<0.5	<0.5	<0.5	<1.5
	03/10/04[D]	35	6,000	1,500	<0.5	<0.5	<0.5	<1.5
	09/16/04	29	5,100	1,600	<0.5	<0.5	<0.5	<1.5
	04/19/05	well not sampled - buried snow/ice (no access)						
	09/07/05	32	870	410	<0.5	<0.5	<0.5	<1.5
	04/20/06	well not sampled - covered with ice and ponded water						
	09/12/06	23	470	210	<0.5	<0.5	<0.5	<1.5
	03/15/07	<10	830	360	<1	<1	<1	<2
	09/10/07	20	520	160	<1	<1	<1	<2

Table 2b
Groundwater Analytical Data

Former Texaco 211815
401 Driveway Street
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Xylenes
ADEC GCL (µg/L):		**1,300**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
MW-2	10/23/03	48,000	40,000	--	2,000	6,000	960	6,000
	03/10/04	LNAPL - 0.04' - well not sampled						
	09/16/04	LNAPL - 0.03' - well not sampled						
	04/19/05	LNAPL - 0.1' - well not sampled						
	09/07/05	LNAPL - 0.01' - well not sampled						
	04/20/06	well not sampled - covered with snow and gravel						
	09/12/06	8,000	22,000	<500	710	350	280	1,300
	03/15/07	6,600	7,100	170	500	100	200	900
	09/10/07	7,600	14,000	<200	700	600	200	1,400
MW-3	10/23/03	36,000	11,000		1,600	2,500	570	6,300
	03/10/04	56,000	44,000	3,000	2,100	4,800	1,100	9,800
	09/16/04	38,000	59,000	<2,000	1,900	3,100	810	6,600
	04/19/05	13,000	40,000	<2,000	630	600	340	2,100
	09/07/05	17,000	24,000	2,900	1,400	1,200	330	2,400
	04/20/06	19,000	15,000	<500	1,100	960	500	3,100
	09/12/06	19,000	15,000	<490	1,400	1,000	520	3,200
	03/16/07	22,000	7,900	490	1,300	900	600	3,700
	09/10/07	11,000	17,000	<490	900	500	400	2,100
MW-4	10/22/03	LNAPL - well not sampled						
	03/10/04	LNAPL - 0.23' - well not sampled						
	09/16/04	LNAPL - 0.03' - well not sampled						
	04/19/05	well not sampled - covered with ice, monument filled with ice and water						
	09/07/05	68,000	98,000	<2,000	3,200	7,700	1,300	10,000
	04/20/06	LNAPL - 0.32' - well not sampled						
	09/12/06	64,000	26,000	<980	3,300	8,200	1,400	9,600
	03/16/07	LNAPL - 0.46' - well not sampled						
	09/10/07	60,000	27,000	<490	3,000	7,900	1,400	9,800
MW-5	10/23/03	10,000	36,000		1,000	420	100	1,000
	03/10/04	22,000	9,800	2,000	1,200	1,800	320	3,000
	09/16/04	22,000	7,100	<200	970	2,000	370	3,500
	04/19/05	well not sampled - covered with ice and ponded water						
	09/07/05	10,000	5,200	220	870	590	200	1,600
	04/20/06	well not sampled - covered with ice and ponded water						
	09/12/06	9,700	2,900	<100	980	230	220	1,700
	09/12/06[D]	9,500	3,000	<200	980	220	210	1,600
	03/15/07	16,000	6,900	<510	800	900	300	2,700
	03/15/07[D]	16,000	7,900	<510	800	900	300	2,700
	09/10/07	6,500	5,200	<200	700	100	100	1,100
	09/10/07[D]	6,000	5,000	<200	700	100	100	1,100
MW-7	10/03/05	7,100	2,200	<97	1,700	<5.0	240	300
	04/20/06	4,600	2,300	200	450	6.9	170	480
	09/11/06	8,100	2,000	<98	1,800	9.4	280	450
	03/16/07	7,600	2,500	<100	1,400	9	200	300
	09/09/07	8,100	3,500	<200	1,800	10	300	700
MW-8	10/03/05	2,900	1,500	720	390	39	96	290
	04/20/06	4,500	1,800	120	430	7.9	190	530
	09/11/06	3,300	1,400	300	410	16	120	330
	03/16/07	4,400	1,800	110	400	10	200	600
	09/09/07	2,200	2,000	210	300	20	100	300
MW-9	10/03/05	26	240	390	1	<0.5	<0.5	<1.5
	04/20/06	91	500	310	2.5	<0.5	<0.5	<1.5
	09/11/06	31	63	40	<0.5	<0.5	<0.5	<1.5
	03/16/07	700	580	340	2.0	<1	<1	<2
	09/09/07	<10	110	93	<1	<1	<1	<2

Table 2b
Groundwater Analytical Data

Former Texaco 211815
401 Driveway Street
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Xylenes
ADEC GCL (µg/L):		**1,300**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
MW-10	10/03/05	760	1,200	520	64	2	5	21
	04/20/06	450	1,400	390	25	<0.5	<0.5	1.7
	04/20/06[D]	470	1,500	330	25	<0.5	<0.5	1.8
	09/11/06	670	1,300	250	64	0.8	0.5	2.7
	09/11/06[D]	660	1,200	240	63	0.8	0.5	2.7
	03/15/07	Well not sampled-buried under snow bank						
	09/09/07	700	1,500	240	70	<1	3	7
Trip Blank	10/23/03	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/10/04	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/16/04	<10	--	--	<0.5	<0.5	<0.5	<1.5
	04/19/05	Travel Blank submitted under COC for 1001430						
	10/03/05	<10	--	--	<0.5	<0.5	<0.5	<1.5
	04/20/06	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/11/06	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/15/07	<10	--	--	<1	<1	<1	<2
	09/09/07	<10	--	--	<1	<1	<1	<2

Notes:
All results are reported in micrograms per liter (µg/l)
GRO = gasoline range hydrocarbons
DRO = diesel range hydrocarbons
RRO = residual range hydrocarbons
LNAPL = Light non-aqueous phase liquid
GCL = ADEC 18 AA 75 Groundwater Cleanup Level
Highlighted concentrations are greater than the applicable ADEC GCL.
[D] = Duplicate sample
Bold Type = Results of most recent sampling event

Table 2c
Groundwater Analytical Data

Former Unocal 306456
328.5 Illinois Ave.
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL (µg/L):		**1,300**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
GEI-1	10/07/02	31,700	218,000	--	5,630	6,770	704	3,860
	09/03/03	LNAPL present - 0.01' - well not sampled						
	04/23/04	26,600	11,200	--	2,910	5,300	582	2,990
	09/16/04	LNAPL present - 0.01' - well not sampled						
	04/20/05	35,300	307,000	--	4,300	6,300	649	3,620
	10/01/05	39,700	18,800	617	3,050	5,350	662	3,820
	04/18/06	Well not sampled - not accessible						
	09/17/06	31,000	29,000	<970	3,200	4,500	540	3,100
	03/17/07	LNAPL present - 0.05' - well not sampled						
	09/12/07	27,000	44,000	<2,200	2,600	3,600	400	2,600
GEI-2	10/07/02	170,000	86,500	--	15,100	56,200	3,810	22,000
	09/03/03	265,000	28,700	--	7,250	42,400	3,430	21,300
	04/23/04	150,000	17,900	--	7,500	39,700	3,140	17,900
	09/16/04	214,000	109,000	--	8,490	48,700	3,310	24,400
	04/20/05	196,000	88,700	--	7,520	49,800	3,490	23,100
	10/01/05	201,000	--	--	5,900	47,200	3,480	22,500
	04/18/06	219,000	33,100	904	5,510	46,200	3,380	24,100
	09/17/06	190,000	25,000	<970	6,000	42,000	3,300	22,000
	03/17/07	Well not sampled - buried under equipment						
	09/12/07	170,000	75,000	<1,100	4,900	37,000	3,100	20,000
GEI-3	10/07/02	36,600	101,000	--	178	3,070	339	12,000
	09/03/03	35,800	82,700	--	86.0	1,070	122	7,840
	04/23/04	16,600	25,200	--	66.0	758	63.1	5,920
	09/16/04	23,000	52,300	--	44.0	903	138	9,640
	09/16/04	--	--	--	35.2	835	77.7	6,610
	04/20/05	Well not sampled - not accessible						
	10/01/05	18,200	58,300	1,500	30.1	485	67.8	5,940
	10/01/05	19,100	--	--	<50.0	468	<50.0	6,280
	04/18/06	21,700	70,300	1,220	28.3	1,290	173	6,970
	09/16/06	16,000	62,000	<2,000	20.0	280	61	5,100
	03/17/07	32,000	42,000	<2,000	30	1,200	200	6,700
	09/11/07	17,000	70,000	<2,000	20	800	200	5,500
GEI-4	10/07/02	LNAPL present - 0.67' - well not sampled						
	09/03/03	LNAPL present - 0.01' - well not sampled						
	04/23/04	3,720	30,200	--	30.7	76.7	55.5	76.7
	09/16/04	LNAPL present - 0.01' - well not sampled						
	04/20/05	807	195,000	--	15.1	3.83	48.2	3.83
	10/01/05	2,560	44,000	601	13.4	<1.00	52.3	<1.00
	04/18/06	1,180	95,700	<8,060	15.2	2.18	66.4	2.18
	04/18/06	1,010	--	--	14.4	<0.500	53.6	<0.500
	09/16/06	1,400	39,000	<960	16	1.8	40	190
	03/17/07	1,400	54,000	<1,900	20	2	40	200
	09/11/07	2,700	100,000	<2,100	10[1]	<10[1]	70[1]	300[1]
GEI-5	10/07/02	12,400	47,600	--	2,310	813	119	1,660
	10/07/02	10,800	--	--	2,360	841	127	1,660
	09/03/03	10,100	68,000	--	1,420	205	32.9	650
	04/23/04	Well not sampled - not accessible.						
	09/16/04	12,000	18,000	--	2,330	549	66.3	1,200
	04/20/05	7,050	71,500	--	1,240	444	44.0	1,040
	10/01/05	10,700	67,400	2,020	1,430	239	37.8	922
	04/18/06	--	--	--	--	--	--	--
	09/16/06	6,200	22,000	<500	910	290	45	850
	03/17/07	Well not sampled due to damage						
	09/11/07	Well not sampled due to damage						

Table 2c
Groundwater Analytical Data

Former Unocal 306456
328.5 Illinois Ave.
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL (µg/L):		**1,300**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
GEI-6	10/07/02	58,800	5,790	--	1.26	1.95	<0.500	2.99
	09/03/03	<80	3,520	--	0.717	<0.500	<0.500	<1.00
	04/23/04	Well not sampled - not accessible.						
	09/16/04	58.8	7,580	--	0.758	<0.500	<0.500	1.72
	04/20/05	Well not sampled - not accessible.						
	10/01/05	<50	2,180	1,140	0.768	<0.500	<0.500	<1.50
	04/18/06	Well not sampled - not accessible.						
	09/16/06	51	3,400	2,300	1.0	<0.5	<0.5	<1.5
	03/17/07	<10	800	770	<1	<1	<1	<2
	09/11/07	20	2,200	1,000	<1	<1	<1	<2
GEI-7	09/03/03	LNAPL present - 0.01' - well not sampled						
	04/23/04	LNAPL present - 0.41' - well not sampled						
	09/16/04	LNAPL present - 0.09' - well not sampled						
	04/20/05	LNAPL present - 0.93' - well not sampled						
	10/01/05	15,400	98,700	<4,240	299	2,180	246	2,560
	04/18/06	Well not sampled - not accessible.						
	09/17/06	15,000	110,000	<2,000	360	2,000	250	2,400
	03/17/07	Well not sampled - buried under equipment						
	09/12/07	13,000	79,000	<2,200	300	1,800	300	2,100
GEI-8	09/03/03	11,000	83,900	--	38.4	342	229	2,350
	04/23/04	8,850	107,000	--	152	834	161	1,930
	09/16/04	10,700	515,000	--	22.7	172	210	3,500
	04/20/05	6,920	571,000	--	14.9	189	136	1,740
	10/01/05	7,520	59,100	983	15.6	91.0	105	1,710
	04/18/06	4,870	43,600	1,110	14.8	131	148	1,620
	09/16/06	4,200	27,000	<960	14	93	89	1,200
	03/17/07	4,900	11,000	290	20	100	100	1,400
	09/11/07	4,000	48,000	<1,000	20	100	100	1,300
GEI-9	09/03/03	LNAPL present - 0.01' - well not sampled						
	04/23/04	1,030	51,600	--	5.01	29.0	12.2	161
	09/16/04	1,490	276,000	--	1.58	2.63	6.73	59.3
	04/20/05	1,480	517,000	--	1.70	<0.500	7.31	41.9
	10/01/05	1,090	93,900	<4,030	1.44	<0.500	5.68	43.3
	04/18/06	881	97,800	<7,940	2.02	<0.500	8.10	57.0
	09/16/06	410	56,000	<2,000	2.1	<0.5	6.6	36
	03/17/07	600	17,000	290	3	<1	10	70
	09/11/07	400[1]	80,000	<1,900	<10[1]	<10[1]	<10[1]	60[1]
GEI-10	10/01/05	551	45,800	412	<0.500	<0.500	7.71	42.9
	04/18/06	689	43,400	510	<0.500	<0.500	40.0	135
	09/16/06	500	23,000	<500	<0.5	<0.5	13.0	53
	09/16/06[D]	510	22,000	<500	<0.5	<0.5	13.0	56
	03/17/07	Well not sampled - unable to locate						
	09/09/07	700	19,000	<200	<1	<1	10	40
	09/09/07[D]	400[1]	32,000	<410	<10[1]	<10[1]	10[1]	50[1]
GEI-11	10/01/05	161,000	61,900	2,810	8,060	21,500	1,340	8,570
	04/18/06	--	--	--	--	--	--	--
	09/17/06	92,000	55,000	<3,900	6,300	19,000	1,500	9,100
	03/17/07	LNAPL present - 0.02' - well not sampled						
	09/12/07	100,000	93,000	<1,900	5,100	18,000	1,900	11,000
GEI-12	10/01/05	9,920	43,900	<410	233	478	290	2,040
	04/18/06	5,480	68,100	466	136	250	158	1,110
	09/16/06	6,200	56,000	<1,000	130	300	150	1,100
	03/17/07	LNAPL present - 0.04' - well not sampled						
	09/09/07	5,000	63,000	<2,000	100	300	100	1,100

Table 2c
Groundwater Analytical Data

Former Unocal 306456
328.5 Illinois Ave.
Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL (µg/L):		**1,300**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
MW-2	10/01/05	94.4	<403	<403	<0.500	<0.500	<0.500	<1.50
	04/18/06	<500	918	<391	<0.500	<0.500	<0.500	<1.50
	09/15/06	14	260	490	<0.5	<0.5	<0.5	<1.5
	03/17/07	20	470	310	<1	<1	<1	<2
	09/09/07	<10	160	87	<1	<1	<1	<2
	09/09/07[D]	<10	210	160	<1	<1	<1	<2
MW-4	10/01/05	--	--	--	--	--	--	--
	04/18/06	<500	<407	<407	<0.500	<0.500	<0.500	<1.50
	09/15/06	<10	98	200	<0.5	<0.5	<0.5	<1.5
	03/16/07	60	85	110	30	<1	<1	<2
	09/09/07	<10	65	140	<1	<1	<1	<2
MW-5	10/01/05	16,200	51,500	668	245	1,620	270	3,070
	04/18/06	21,500	114,000	<7,810	287	3,220	498	3,910
	09/15/06	18,000	42,000	<1,000	220	1,700	370	2,800
	09/15/06[D]	18,000	77,000	<1,900	230	1,900	410	3,400
	03/17/07	Well not sampled - Sheen present						
	09/12/07	14,000	53,000	<990	200	1,900	400	2,700
MW-6	10/01/05	Well not sampled - not accessible.						
	04/18/06	624	1,120	<391	138	<0.500	10.0	7.50
	09/15/06	39	210	260	8.1	<0.5	1.0	<1.5
	03/16/07	200	280	170	30	<1	1	<2
	03/16/07[D]	100	250	180	30	<1	1	<2
	09/11/07	40	300	280	7	<1	<1	<2
MW-13	08/03/07	40	44	51	1	<1	<1	<2
	09/09/07	70	70	63	2	<1	<1	<2
K-5	10/01/05	18,100	86,600	<4,030	<0.500	<0.500	2.26	7.56
	04/18/06	--	--	--	--	--	--	--
	09/27/06	610	17,000	<480	<0.5	<0.5	0.5	<1.5
	03/17/07	Well not sampled - unable to remove cover						
	09/09/07	1,800	110,000	<1,900	<1	<1	2	10
K-7	10/01/05	<50	421	<417	<0.500	<0.500	<0.500	<1.50
	04/1806	429	--	--	<0.500	<0.500	1.71	5.28
	09/16/06	<10	72	250	<0.5	<0.5	<0.5	<1.5
	03/17/07	Well not sampled - unable to locate						
	09/09/07	<100[1]	71	240	<10	<10	<10	<20
Trip Blank	04/18/06	<50	421	<417	<0.500	<0.500	<0.500	<1.50
	09/14/06	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/14/06	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/17/07	<10	--	--	<1	<1	<1	<2
	09/09/07	<10	--	--	<1	<1	<1	<2

Notes:
All results are reported in micrograms per liter (µg/l)
GRO = Gasoline range organics
DRO = Diesel range organics
RRO - Residual range organics
LNAPL = Light non-aqueous phase liquid
GCL = ADEC 18 AAC 75 Groundwater Cleanup Level
Bold Type = Results of most recent sampling event
Highlighted concentrations are greater than the applicable ADEC GCL.
[D] = Duplicate sample
[1]Due to excessive foaming of the sample, normal reporting limits were not attained

Table 3
Groundwater VOC and RCRA Metals Analytical Data

Former Chevron 1004130, 418 Illinois Street
Former Texaco 211815, 401 Driveway Street
Former Unocal 306456, 328.5 Illinois Ave.
Fairbanks, Alaska

EPA Method:		8011	8260B							8021B	6010B/7470							
Well	Sample Date	1,2-dibromoethane	1,2-dibromoethane	1,1-dichloroethane	1,1,1-trichloroethane	carbon tetrachloride	1,2-dichloroethane	trichloroethene	tetrachloroethene	methyl tertiary butyl ether	Mercury	Arsenic	Selenium	Barium	Cadmium	Chromium	Lead	Silver
ADEC GCL (µg/L):		0.05	0.05	3,650	200	NL	5	5	5	NL	2	50	50	2,000	5	100	15	180
Former Chevron 1001430																		
TH-13	10/03/05	<0.0094	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.062	14.0	<9.4	271	<0.97	<4.8	<8.4	<2.0
	09/14/06	<0.0095	<0.5	<0.5	<0.8	<1	<0.5	<1	<0.8	<2.5	<0.056	15.6	<9.4	258	<0.91	<2.3	<6.9	<1.6
	03/15/07	<0.0097	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.056	14.7	<9.4	283	<0.91	<2.3	<6.9	<1.6
	09/13/07	<0.0098	--	<1	<0.8	<1	<0.5	1	<0.8	--	<0.056	19.6	29.4	253.0	<0.90	2.3	<6.9	<1.6
TH-17	10/03/05	<0.0088	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.062	39.9	<9.4	330	<0.97	<4.8	<8.4	<2.0
	09/14/06	<0.0096	<0.5	<0.5	<0.8	<1	<0.5	<1	<0.8	<10	<0.056	33.3	<9.4	338	<0.91	4.7	<6.9	<1.6
	03/15/07	<0.0097	<1	<1	<0.8	<1	<1	1	<0.8	--	<0.056	31.9	<9.4	388	<0.91	5.5	<6.9	<1.6
	09/13/07	<0.0097	--	<1	<0.8	<1	<0.5	1	<0.8	--	<0.056	36.7	<9.4	715.0	7.6	33.8	16.4	<1.6
Trip Blank	10/03/05	<0.0094	<1	<1	<0.8	<1	<1	<1	<0.8	--	--	--	--	--	--	--	--	--
	04/20/06	<0.0096	<0.5	<1	<0.8	<1	<0.5	<1	<0.8	<2.5	--	--	--	--	--	--	--	--
	09/13/06	<0.0098	<0.5	<1	<0.8	<1	<0.5	<1	<0.8	--	--	--	--	--	--	--	--	--
	03/14/07	<0.0099	<1	<1	<0.8	<1	<1	<1	<0.8	--	--	--	--	--	--	--	--	--
	09/12/07	<0.0099	--	<1	<0.8	<1	<0.5	<1	<0.8	--	--	--	--	--	--	--	--	--
Former Texaco 211815																		
AR-81	04/20/06	--	--	--	--	--	--	--	--	<2.5	--	--	--	--	--	--	--	--
AR-85	04/20/06	--	--	--	--	--	--	--	--	<2.5	--	--	--	--	--	--	--	--
MW-2	03/16/07	<0.0099	<0.5	<1	<0.8	<1	<0.5	<1	<0.8	--	<0.056	55.0	<9.4	774	<0.91	26.2	23.3	<1.6
	09/10/07	<0.0099	--	<1	<0.8	<1	<0.5	<1	<0.8	--	<0.056	47.9	<9.4	521	3.4	13.6	19.2	<1.6
MW-3	10/03/05	<0.0094	<5	<5	<4	<5	<5	<5	<4	--	<0.062	40.2	<9.4	671	<0.97	36.2	37.3	<2.0
	04/20/06	<0.0097	<1	<2	<2	<2	<1	3	<2	<100	<0.062	22.9	<9.4	513	3.7	8.5	13.5	2.5
	09/12/06	<0.0096	<3	<5	<4	<5	<3	7	<4	<25	<0.056	27.3	<9.4	560	2.5	9.9	13	<1.6
	03/16/07	<0.0097	<1	<2	<2	<2	<1	<2	<2	--	<0.056	25.2	<9.4	601	<0.91	11.5	15.1	<1.6
	09/10/07	<0.0099	--	<2	<2	<2	<1	<2	<2	--	0.072	27.7	<9.4	533	3.7	10.9	13.9	1.8
MW-4	10/03/05	0.025	<10	<10	<8	<10	<10	<10	<8	--	0.075	56.3	<9.4	866	1.1	56.7	130	<2.0
	04/20/06	LNAPL present - 0.32' - well not sampled																
	09/12/06	0.039	<3	<5	<4	<5	<3	<5	<4	220	<0.056	25.8	<9.4	526	2.3	8.5	37.8	<1.6
MW-7	10/03/05	<0.0094	<3	<3	<2	<3	<3	<3	<2	--	0.062	162.0	14.4	1,940	2.1	255	128	<2.0
	04/20/06	--	--	--	--	--	--	--	--	<50	--	--	--	--	--	--	--	--
MW-8	10/03/05	0.026	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.062	67.8	<9.4	1,300	3	140	114	<2.0
	04/20/06	--	--	--	--	--	--	--	--	<100	--	--	--	--	--	--	--	--
MW-9	10/03/05	<0.0094	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.062	28.8	<9.4	965	1.9	93.3	60.5	<2.0
	04/20/06	--	--	--	--	--	--	--	--	<2.5	--	--	--	--	--	--	--	--
MW-10	10/03/05	<0.0094	<1	<1	<0.8	<1	<1	<1	<0.8	--	<0.062	113	<9.4	1,760	3.0	317	154	<2.0
	04/20/06	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--
	04/20/06[D]	--	--	--	--	--	--	--	--	<10	--	--	--	--	--	--	--	--
Trip Blank	09/11/06	<0.0098	<0.5	<1	<0.8	<1	<0.5	<1	<0.8	--	--	--	--	--	--	--	--	--
	03/15/07	--	<0.5	<1	<0.8	<1	<0.5	<1	<0.8	--	--	--	--	--	--	--	--	--
	09/09/07	<0.0099	<1	<1	<0.8	<1	<0.5	<1	<0.8	--	--	--	--	--	--	--	--	--

Table 3
Groundwater VOC and RCRA Metals Analytical Data

Former Chevron 1004130, 418 Illinois Street
Former Texaco 211815, 401 Driveway Street
Former Unocal 306456, 328.5 Illinois Ave.
Fairbanks, Alaska

EPA Method:		8011	8260B							8021B	6010B/7470							
Well	Sample Date	1,2-dibromoethane	1,2-dibromoethane	1,1-dichloroethane	1,1,1-trichloroethane	carbon tetrachloride	1,2-dichloroethane	trichloroethene	tetrachloroethene	methyl tertiary butyl ether	Mercury	Arsenic	Selenium	Barium	Cadmium	Chromium	Lead	Silver
ADEC GCL (µg/L):		0.05	0.05	3,650	200	NL	5	5	5	NL	2	50	50	2,000	5	100	15	180
Former Unocal Bulk Plant 306456																		
GEI-2	09/17/06	120	140	<1.0	<0.8	<1.0	<0.5	<1.0	<0.8	<500	<0.56	42.2	<9.4	445	<0.91	17.8	89.5	<1.6
	09/12/07	96	--	<2[1]	<2[1]	<2[1]	<1[1]	<2[1]	<2[1]	--	<0.28	95.6	<9.4	1,190	8.2	168	322	6.6
GEI-7	09/12/07	3.1	--	2	<0.8	<1	<0.5	3	11	--	<0.056	90.6	<9.4	658	4.3	74.7	64.5	5.4
GEI-9	03/16/07	0.014	<0.5	<1	<0.8	<1	<0.5	<1	<0.8	--	<0.056	37.2	<9.4	341	<0.91	17.8	<6.9	1.6
GEI-11	09/17/06	1.9	2	<1.0	<0.8	<1.0	<0.5	<1.0	<0.8	<250	0.082	107	<9.4	1,110	1.3	30.9	63.9	<1.6
MW-13	09/09/07	<0.0098	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trip Blank	03/17/07	<0.0098	<0.5	<1	<0.8	<1	<0.5	<1	<0.8	--	--	--	--	--	--	--	--	--
	09/09/07	<0.0099	--	<1	<0.8	<1	<0.5	<1	<0.8	--	--	--	--	--	--	--	--	--

Notes:
All results are reported in micrograms per liter (µg/l)
VOC = volatile organic compounds; analyzed using EPA Method 8260B
RCRA = Resource Conservation and Recovery Act; samples analyzed using EPA Methods 7470 (mercury only) and 6010B
GCL = ADEC 18 AAC 75 Groundwater Cleanup Level
NL = A GCL is not currently listed.
Bold Type = Results of most recent sampling event
Highlighted concentrations are greater than the applicable ADEC GCL.
-- = sample was not analyzed for this compound
<25 = result did not exceed indicated method reporting limit; an elevated reporting limit indicates sample was diluted
[1]Lab preservation requirements not met, vials did not have a pH <2 at the time of analysis

Table 4
Groundwater PAH Analytical Data

Former Chevron 1004130, 418 Illinois Street
Former Texaco 211815, 401 Driveway Street
Former Unocal 306456, 328.5 Illinois Ave.
Fairbanks, Alaska

Well	Sample Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
ADEC GCL (µg/L):		**700**	**2,200**	**2,200**	**1,460**	**11,000**	**11,000**	**1,460**	**1,100**	**1**	**100**	**1**	**10**	**0.2**	**1**	**0.1**	**1,100**
Former Chevron 1004130																	
TH-13	10/03/05	18	<0.02	6	8	16	4	8	7	1	1	0.4	0.1	<0.02	<0.02	<0.02	<0.02
	4/20/206	Well not sampled - buried under ice, monument filled															
	09/14/06	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	03/15/07	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	09/13/07	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TH-17	10/03/05	15	<0.02	0.6	1	0.4	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
	4/20/206	Well not sampled - buried under ice, monument filled															
	09/14/06	19	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	03/15/07	26	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	09/13/07	26	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Former Texaco 211815																	
MW-2	03/16/07	130	<1	3	6	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	09/10/07	140	1	2	7	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-3	10/03/05	140	<0.2	4	6	9	3	0.1	0.3	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2
	4/20/206	100	<1	<1	2	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	09/12/06	120	<1	2	3	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	03/16/07	41	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	09/10/07	72	<1	<1	2	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-4	10/03/05	390	<0.2	6	14	25	3	0.9	0.6	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2
	4/20/206	LNAPL present - 0.32' - well not sampled															
	09/12/06	400	3	4	12	16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	03/16/07	LNAPL present - 0.46' - well not sampled															
MW-7	10/03/05	31	<0.02	0.3	<0.01	0.04	0.04	0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
MW-8	10/03/05	24	<0.02	0.2	0.1	0.1	0.03	0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
MW-9	10/03/05	0.2	<0.02	<0.01	<0.01	0.03	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
MW-10	10/03/05	2	<0.02	0.5	0.4	0.05	0.03	0.04	0.03	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
Former Unocal 306456																	
GEI-2	09/17/06	400	<10	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	9/12/2007[1]	560	<10	<10	28	19	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
GEI-7	9/12/2007[2]	630	3	<1	9	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GEI-9	03/17/07	47	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GEI-11	09/17/06	580	<10	<10	20	19	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Notes:
All results are reported in micrograms per liter (µg/l)
PAH = Polycyclic Aromatic Hydrocarbons; analyzed using EPA Method 8270
GCL = ADEC 18 AAC 75 Groundwater Cleanup Level
Bold Type = Results of most recent sampling event
-- = sample was not analyzed for this compound
<25 = result did not exceed indicated method reporting limit; an elevated reporting limit indicates sample was diluted
[1]Due to the sample matrix an initial dilution was necessary to perform the analyses, therefore reporting limits were raised
[2]Surrogate recoveries are outside the QC limits, analysis was repeated outside of the required holding time and surrogate recoveries are again outside of QC limits. Initial extraction data is reported.

Table 5
Soil Analytical Data

Former Chevron 1001430, 418 Illinois Street
Former Texaco 211815, 410 Driveway Street
Former Unocal 306456, 328.5 Illinois Street
Fairbanks, Alaska

Boring	Depth below ground surface (feet)	Date Sampled	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Ethanol	1,2,4-trichlorobenzene	1,2,3-trichlorobenzene	1,3,5-trimethylbenzene	1,2,4-trimethylbenzene	Naphthalene	p-Isopropyltoluene
ADEC Soil Cleanup Level			*300*	*250*	*11,000*	*0.02*	*5.4*	*5.5*	*78*	*--*	*--*	*2*	*--*	*--*	*--*	*21*	*--*
Former Texaco and Former Chevron																	
B-1	3.0	09/10/03	--	8.2	76	0.96	<0.36	1.3	32.1	<0.36	--	--	--	--	--	--	--
	8.0	09/11/03	4	<4.0	4.5	<0.12	<0.12	<0.12	1.22	0.14	--	--	--	--	--	--	--
B-2	3.0	09/11/03	1.6	--	--	<0.085	<0.085	<0.085	0.12	<0.085	--	--	--	--	--	--	--
	4.0	09/22/03	250	1,600	<400	1.3	0.24	0.76	3.3	<0.054	--	--	--	--	--	--	--
	8.0	09/11/03	2.4	--	--	<0.080	<0.080	<0.080	<0.080	<0.080	--	--	--	--	--	--	--
	8.0	09/22/03	2.6	<4.0	<4.0	<0.052	<0.052	<0.052	0.23	<0.052	--	--	--	--	--	--	--
B-3	3.0	09/11/03	--	--	--	8.7	100	14	1,900	<0.26	--	--	--	--	--	--	--
	4.0	09/22/03	41	400	<400	<0.032	<0.032	<0.032	<0.032	<0.032	--	--	--	--	--	--	--
	8.0	09/11/03	510	--	--	0.76	13	2.8	30	<0.079	--	--	--	--	--	--	--
	8.0	09/11/03	570	--	--	0.83	15	3.4	74	<0.094	--	--	--	--	--	--	--
	8.0	09/22/03	--	180	<20	--	--	--	--	--	--	--	--	--	--	--	--
B-4	3.0	09/11/03	--	--	--	8.6	64	3	260	<0.088	--	--	--	--	--	--	--
	3.0	09/22/03	850	3,400	<400	2.3	15	0.72	90	<0.043	--	--	--	--	--	--	--
	8.0	09/11/03	2,200	1,700	<400	17	120	3	218	<0.10	--	--	--	--	--	--	--
B-5	3.0	09/11/03	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4.0	09/22/03	3.5	25	190	0.057	0.19	<0.053	1	<0.053	--	--	--	--	--	--	--
	8.0	09/11/03	3.6	--	--	0.11	0.37	<0.065	1	<0.065	--	--	--	--	--	--	--
	8.0	09/22/03	--	4.1	<4.0	--	--	--	--	--	--	--	--	--	--	--	--
B-6	3.0	09/11/03	--	3,600	<400	--	--	--	--	--	--	--	--	--	--	--	--
	4.0	09/22/03	230	150	91	<0.023	0.14	<0.023	14	<0.023	--	--	--	--	--	--	--
	8.0	09/11/03	1,500	1,500	<400	4.4	79	4.2	215	<0.080	--	--	--	--	--	--	--
B-7	3.0	09/11/03	<0.7	<4.0	4.5	<0.094	<0.094	<0.094	<0.094	<0.094	--	--	--	--	--	--	--
	8.0	09/11/03	1.4	<4.0	4.9	0.13	0.37	<0.11	0.27	<0.11	--	--	--	--	--	--	--
MW-1	4.0	09/22/03	--	460	1,100	--	--	--	--	--	--	--	--	--	--	--	--
	9.0	09/11/03	--	--	--	<0.091	<0.091	<0.091	<0.091	<0.091	--	--	--	--	--	--	--
	11.0	09/11/03	--	--	--	<0.060	<0.060	<0.060	<0.060	<0.060	--	--	--	--	--	--	--
MW-2	4.0	09/22/03	--	2,400	<400	--	--	--	--	--	--	--	--	--	--	--	--
	8.0	09/09/03	--	--	--	<0.084	0.95	1.7	21	<0.084	--	--	--	--	--	--	--
	8.0	09/22/03	1	<4.0	<4.0	<0.021	<0.021	<0.021	0.041	<0.021	--	--	--	--	--	--	--
	9.0	09/10/03	--	--	--	<0.080	0.19	0.091	1.7	<0.080	--	--	--	--	--	--	--
	11.0	09/10/03	--	--	--	0.32	2.9	4.7	52	<0.17	--	--	--	--	--	--	--
MW-3	3.5	09/09/03	700	--	--	0.55	6.7	1.3	88	<0.074	--	--	--	--	--	--	--
	4.0	09/22/03	--	<40	740	--	--	--	--	--	--	--	--	--	--	--	--
	8.0	09/22/03	--	<40	18	--	--	--	--	--	--	--	--	--	--	--	--
	10.0	09/09/03	--	--	--	<0.059	<0.059	<0.059	<0.059	<0.059	--	--	--	--	--	--	--
MW-4	10.0	09/09/03	8.5	180	29	<0.076	<0.076	<0.076	<0.152	<0.076	--	--	--	--	--	--	--
	12.0	09/09/03	1.4	<4.0	<4.0	<0.092	0.096	<0.092	0.19	<0.092	--	--	--	--	--	--	--

Table 5
Soil Analytical Data

Former Chevron 1001430, 418 Illinois Street
Former Texaco 211815, 410 Driveway Street
Former Unocal 306456, 328.5 Illinois Street
Fairbanks, Alaska

Boring	Depth below ground surface (feet)	Date Sampled	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Ethanol	1,2,4-trichlorobenzene	1,2,3-trichlorobenzene	1,3,5-trimethylbenzene	1,2,4-trimethylbenzene	Naphthalene	p-Isopropyltoluene
ADEC Soil Cleanup Level			***300***	***250***	***11,000***	***0.02***	***5.4***	***5.5***	***78***	**--**	**--**	***2***	**--**	**--**	**--**	***21***	**--**
MW-5	5.0	09/09/03	--	<20	57	--	--	--	--	--	--	--	--	--	--	--	--
	4.0	09/22/03	--	<4.0	--	--	--	--	--	--	--	--	--	--	--	--	--
	8.0	09/22/03	--	<4.0	40	--	--	--	--	--	--	--	--	--	--	--	--
	12.0	09/09/03	<0.8	--	--	<0.052	<0.052	<0.052	<0.052	<0.052	--	--	--	--	--	--	--
MW-7	5	09/27/05	<0.7	<4.2	9.3	<0.007	<0.007	<0.007	<0.02	--	--	--	--	--	--	--	--
	10	09/27/05	<0.5	<4.2	10	<0.005	<0.005	<0.005	<0.01	--	--	--	--	--	--	--	--
	10	09/27/05	<0.4	5.3	30	<0.004	<0.004	<0.004	<0.01	--	--	--	--	--	--	--	--
	15	09/27/05	<0.5	<4.6	<4.6	<0.005	<0.005	<0.005	<0.01	--	--	--	--	--	--	--	--
MW-8	5	09/26/05	<0.4	<4.1	<4.1	<0.004	<0.004	<0.004	<0.01	--	--	--	--	--	--	--	--
	10	09/27/05	<0.7	5.1	39	<0.007	<0.007	<0.007	<0.02	--	--	--	--	--	--	--	--
	15	09/27/05	<0.4	<4.4	15	0.01	0.006	0.004	0.02	--	--	--	--	--	--	--	--
MW-9	5	09/26/05	<0.4	<4.3	<4.3	<0.004	<0.004	<0.004	<0.01	--	--	--	--	--	--	--	--
	10	09/27/05	<0.4	<4.3	25	<0.004	<0.004	<0.004	<0.01	--	--	--	--	--	--	--	--
	15	09/27/05	<0.5	5.9	39	<0.004	<0.004	<0.004	<0.01	--	--	--	--	--	--	--	--
MW-10	5	09/28/05	<0.6	<4.4	6.3	<0.007	<0.007	<0.007	<0.02	--	--	--	--	--	--	--	--
	10	09/28/05	<0.5	<4.1	<4.1	<0.005	<0.005	<0.005	<0.01	--	--	--	--	--	--	--	--
	10	09/28/05	<0.5	<4.1	9.6	<0.005	<0.005	<0.005	<0.01	--	--	--	--	--	--	--	--
	15	09/28/05	<0.3	<4.6	<4.6	<0.003	<0.003	<0.003	<0.01	--	--	--	--	--	--	--	--
MW-13	**9.5-11.5**	**07/26/07**	**14**	**<4.0**	**<4.0**	**<0.005**	**0.03**	**<0.005**	**0.02**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
	14.5-16.5	**07/26/07**	**1.7**	**<4.1**	**19**	**<0.005**	**0.02**	**<0.005**	**<0.02**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
SB-7	**2**	**07/31/07**	**24**	**400**	**2,400**	**0.061**	**0.18**	**<0.078**	**0.75**	**<0.039**	**--**	**--**	**--**	**0.39**	**0.52**	**0.58**	**--**
SB-8	**2**	**07/31/07**	**9.8**	**42**	**8.1**	**<0.036**	**<0.072**	**<0.072**	**<0.072**	**<0.036**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
SB-9	**2**	**07/31/07**	**1,300**	**7,400**	**<1,100**	**0.15**	**0.64**	**<0.071**	**10.9**	**<0.035**	**--**	**--**	**--**	**8.3**	**6.8**	**2.7**	**0.073**
SB-10	**2**	**07/31/07**	**1,100**	**4,800**	**<860**	**<0.031**	**<0.062**	**<0.062**	**7.4**	**<0.031**	**--**	**--**	**--**	**6.5**	**7.4**	**15**	**0.19**
SB-11	**2**	**07/31/07**	**37**	**150**	**<48**	**0.051**	**0.31**	**<0.074**	**1.07**	**<0.037**	**--**	**--**	**--**	**0.32**	**0.51**	**0.73**	**--**

Table 5
Soil Analytical Data

Former Chevron 1001430, 418 Illinois Street
Former Texaco 211815, 410 Driveway Street
Former Unocal 306456, 328.5 Illinois Street
Fairbanks, Alaska

Boring	Depth below ground surface (feet)	Date Sampled	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Ethanol	1,2,4-trichlorobenzene	1,2,3-trichlorobenzene	1,3,5-trimethylbenzene	1,2,4-trimethylbenzene	Naphthalene	p-Isopropyltoluene
ADEC Soil Cleanup Level			***300***	***250***	***11,000***	***0.02***	***5.4***	***5.5***	***78***	**--**	**--**	***2***	**--**	**--**	**--**	***21***	**--**
Former Unocal																	
GEI-1	14-14.5	10/1/02	769	1,660	--	2.69	15.3	7.22	35.8	--	--	--	--	--	--	--	--
GEI-2	14-14.5	10/1/02	9,050	3,900	--	21.6	410	115	1,270	--	--	--	--	--	--	--	--
	15-15.5	10/1/02	4,440	3,070		16.8	275	86.8	580	--	--	--	--	--	--	--	--
GEI-3	14-14.5	10/1/02	742	3,590	--	0.442	4.58	0.858	115	--	--	--	--	--	--	--	--
	19-19.5	10/1/02	2,400	999		1.30	27.5	13.3	185	--	--	--	--	--	--	--	--
GEI-4	15-15.5	10/1/02	518	6,490	--	0.272	<1.22	<1.22	7.63	--	--	--	--	--	--	--	--
GEI-5	11.5-12	10/1/02	45.9	5.35	--	0.142	<0.150	<0.150	0.443	--	--	--	--	--	--	--	--
GEI-6	11.5-12	10/1/02	4.05	19.3	--	0.0983	0.328	<0.0381	0.157	--	--	--	--	--	--	--	--
GEI-7	15.5-16.0	8/23/03	572	2,950	--	0.546	7.98	3.09	43.1	--	--	--	--	--	--	--	--
GEI-8	14.0-14.5	8/23/03	1,200	10,800	--	0.272	4.17	2.67	68.6	--	--	--	--	--	--	--	--
GEI-9	15.5-16.0	8/23/03	307	3,920	--	<0.106	<0.265	<0.265	5.58	--	--	--	--	--	--	--	--
GEI-10	8-9	9/25/05	<3.36	<25.0	<50.0	<0.0134	<0.0336	<0.0336	<0.504	--	--	--	--	--	--	--	--
	15-16	9/25/05	10.4	507	<50.0	<0.0124	<0.0310	0.104	0.143	--	--	--	--	--	--	--	--
GEI-11	8-9	9/25/05	<2.93	<25.0	<50.0	0.0119	<0.0293	<0.0293	<0.0439	--	--	--	--	--	--	--	--
	15-16	9/25/05	1,770	5,150	<500	19.7	182	41.1	237	--	--	--	--	--	--	--	--
GEI-12	6-7	9/25/05	242	4,140	<500	0.289	0.775	0.153	3.73	--	--	--	--	--	--	--	--
	15-16	9/25/05	362	3,030	<500	0.254	2.50	2.61	15.2	--	--	--	--	--	--	--	--
SB-1	**2**	**07/31/07**	**<6.3**	**26**	**49**	**<0.036**	**<0.072**	**<0.072**	**<0.072**	**<0.036**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
SB-2	**2**	**07/31/07**	**61**	**280**	**48**	**<0.028**	**<0.055**	**<0.055**	**0.074**	**<0.028**	**5.6**	**--**	**--**	**--**	**--**	**--**	**--**
SB-3	**2**	**07/31/07**	**8.6**	**590**	**<210**	**<0.047**	**<0.095**	**<0.095**	**<0.095**	**<0.047**	**9.6**	**0.20**	**0.81**	**--**	**--**	**--**	**--**
SB-4	**2**	**07/31/07**	**210**	**2,600**	**<420**	**<0.025**	**0.060**	**<0.050**	**0.361**	**<0.025**	**5.5**	**--**	**--**	**0.27**	**0.11**	**0.80**	**--**
SB-5	**2**	**07/31/07**	**<5.2**	**450**	**200**	**<0.011**	**<0.022**	**<0.022**	**<0.022**	**<0.011**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
SB-6	**2**	**07/31/07**	**45**	**91**	**230**	**<0.056**	**0.12**	**<0.11**	**0.12**	**<0.056**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

Explanations:
All results are reported in milligrams per kilogram (mg/kg).
Bold type indicates the most recent sampling event.
Highlighted values indicate an exceedance of the respective ADEC Soil Cleanup Level.

Table 6
Soil Boring PID Measurements

Former Chevron 1001430, 418 Illinois Street
Former Texaco 211815, 410 Driveway Street
Former Unocal 306456, 328.5 Illinois Street
Fairbanks, Alaska

Soil Boring	Date	PID Measurement (ppm)
Former Unocal		
SB-1	7/31/2007	0.0
SB-2	7/31/2007	78.6
SB-3	7/31/2007	77.8
SB-4	7/31/2007	217.0
SB-5	7/31/2007	78.6
SB-6	7/31/2007	0.7
Former Chevron		
SB-7	7/31/2007	0.9
SB-8	7/31/2007	0.9
Former Texaco		
SB-9	7/31/2007	469.0
SB-10	7/31/2007	402.0
SB-11	7/31/2007	0.4

Notes:
All results are reported in parts per million (ppm)

Table 7
Soil Vapor Analytical Data

Former Chevron 1004130, 418 Illinois Street
Former Texaco 211815, 410 Driveway Street
Former Unocal 306456, 328.5 Illinois Street
Fairbanks, Alaska

Vapor Probe	Depth (ft)	Sample Date	Benzene	Toluene	Ethylbenzene	m/p-Xylenes	o-Xylene	Naphthalene
EPA Screening Level:			**0.98**	**1,100**	**5.1**	**16,000**	**16,000**	**5.7**
Former Chevron 1004130								
VP-2	**5**	**08/09/07**	**20,000**	**6,000**	**170**	**1,500**	**700**	**<40[1]**
	8.5	**08/09/07**	**81,000**	**55,000**	**2,400**	**8,900**	**4,800**	**<400[1]**
	8.5[D]	**08/09/07**	**44,000**	**44,000**	**2,000**	**9,400**	**5,100**	**<400[1]**
Former Texaco 211815								
VP-1	**5**	**08/09/07**	**2.5**	**45**	**2.1**	**3.2**	**1.6**	**<0.4**
	8.5	**08/09/07**	**22**	**59**	**9.9**	**26**	**14**	**<4**
Former Unocal 306456								
VP-3	**5**	**08/10/07**	**53,000**	**38,000**	**1,600**	**11,000**	**4,700**	**<600[1]**
	5[D]	**08/10/07**	**48,000**	**44,000**	**1,400**	**15,000**	**7,400**	**<400[1]**
	8.5	**08/10/07**	**100,000**	**92,000**	**1,400**	**4,300**	**1,800**	**<400[1]**

Notes:
All results are reported in parts per billion by volume (ppbv)
Bold Type = Results of most recent sampling event
[D] Duplicate
Highlighted values indicate an exceedance of the respective EPA screening level.
[1]Due to laboratory dilution, the method detection limit was raised to a level which is higher than the EPA screening level.

ARCADIS

Appendix A

Completion Logs

SOIL VAPOR PROBE COMPLETION LOG

WELL NO.
VP-1

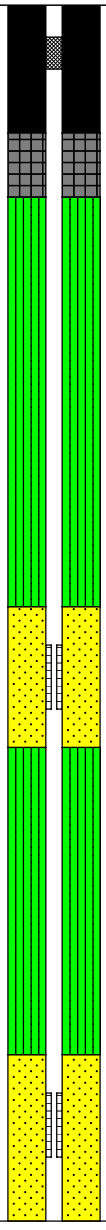
ARCADIS
2300 Eastlake Avenue East, Suite 200, Seattle, WA 98102 Tel: 206.325.5254 Fax: 206.325.8218

PROJECT NUMBER: B0045505.0000
PROJECT NAME: Former Texaco Bulk Plant No. 211815
SITE LOCATION: 410 Driveway Street, Alaska
LOGGED BY: Jason Luckett
DRILLING CO: Alaska Pipeliner
DRILLER: Dick Banzhap
DRILLING METHOD: Air Knife
DATE BEGUN: 7/30/07
DATE COMPLETED: 7/30/07

VAPOR PROBE COMPLETION DETAILS

	TYPES	DEPTH (FT BGS)
WELL CASING:	3/4-inch threaded PVC piping	0-5.5, 5.5-8.5
SURFACE CASING GROUT TYPE:	Concrete	0-1.5
SEAL TYPE:	Bentonite chips	1.5-4.7, 5.8-8.2
SAND PACK:	Colorado Silica Sand No. 10/20	4.7-5.8, 8.2-9.3
WELL SCREEN:	Two 6-inch long, 3/4-inch PVC screen, 0.010" slots	5-5.5, 8.5-9.0
TOTAL DEPTH DRILLED:		9.5

DEPTH	SAMPLE INTERVAL	PID READING (PPM)	U.S.C.S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0					Boring was manually cleared by Alaska Pipeliners to eight (8) feet below ground surface (bgs).	
-5						



SOIL VAPOR PROBE COMPLETION LOG

WELL NO.
VP-2

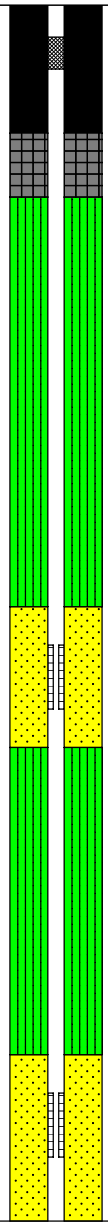
ARCADIS
2300 Eastlake Avenue East, Suite 200, Seattle, WA 98102 Tel: 206.325.5254 Fax: 206.325.8218

PROJECT NUMBER: B0045505.0000
PROJECT NAME: Former Chevron Bulk Plant No. 1001430
SITE LOCATION: 418 Illinois St., Fairbanks, Alaska
LOGGED BY: Jason Luckett
DRILLING CO: Alaska Pipeliner
DRILLER: Dick Banzhap
DRILLING METHOD: Air Knife
DATE BEGUN: 7/26/07
DATE COMPLETED: 7/26/07

VAPOR PROBE COMPLETION DETAILS

	TYPES	DEPTH (FT BGS)
WELL CASING:	3/4-inch threaded piping	0-5.5, 5.5-8.5
SURFACE CASING GROUT TYPE:	Concrete	0-1.5
SEAL TYPE:	Bentonite chips	1.5-4.7, 5.8-8.2
SAND PACK:	Colorado Silica Sand No. 10/20	4.7-5.8, 8.2-9.3
WELL SCREEN:	Two 6-inch long, 3/4-inch PVC screen, 0.010" slots	5-5.5, 8.5-9.0
TOTAL DEPTH DRILLED:		9.5

DEPTH	SAMPLE INTERVAL	PID READING (PPM)	U.S.C.S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0					Boring was manually cleared by Alaska Pipeliners to seven (7) feet below ground surface (bgs).	
-5	7-9	0	SP		Sand: gray to light gray with some brown; fine grained sand with little gravel; loose (SPT, N blows/ft: 2,1,1,2); moist.	



SOIL VAPOR PROBE COMPLETION LOG

WELL NO.
VP-3

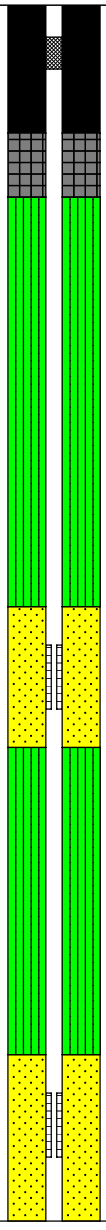
ARCADIS
2300 Eastlake Avenue East, Suite 200, Seattle, WA 98102 Tel: 206.325.5254 Fax: 206.325.8218

PROJECT NUMBER: B0045512.0000
PROJECT NAME: Former Unocal Bulk Plant No. 306456
SITE LOCATION: 328.5 Illinois St, Fairbanks, Alaska
LOGGED BY: Jason Luckett
DRILLING CO: Alaska Pipeliner
DRILLER: Dick Banzhap
DRILLING METHOD: Air Knife
DATE BEGUN: 7/27/07
DATE COMPLETED: 7/27/07

VAPOR PROBE COMPLETION DETAILS

	TYPES	DEPTH (FT BGS)
WELL CASING:	3/4-inch threaded PVC piping	0-5.5, 5.5-8.5
SURFACE CASING GROUT TYPE:	Concrete	0-1.5
SEAL TYPE:	Bentonite chips	1.5-4.7, 5.8-8.2
SAND PACK:	Colorado Silica Sand No. 10/20	4.7-5.8, 8.2-9.3
WELL SCREEN:	Two 6-inch long, 3/4-inch PVC screen, 0.010" slots	5-5.5, 8.5-9.0
TOTAL DEPTH DRILLED:		9.5

DEPTH	SAMPLE INTERVAL	PID READING (PPM)	U.S.C.S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0					Boring was manually cleared by Alaska Pipeliners to seven (7) feet below ground surface (bgs).	
-5	8-9	1,587	SP		Sand: gray to light gray with some brown; fine grained sand with little gravel; loose (SPT, N blows/ft: 2,1,1,2); moist.	



BORING / WELL COMPLETION LOG

WELL NO. MW-13

ARCADIS
2300 Eastlake Avenue East, Suite 200, Seattle, WA 98102 Tel: 206.325.5254 Fax: 206.325.8218

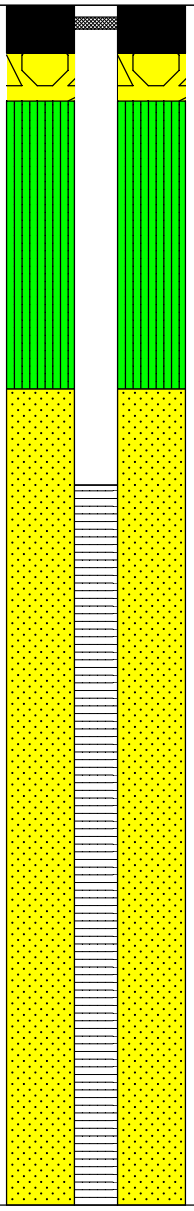
PROJECT NUMBER: B0045512.0000
PROJECT NAME: Former Unocal Bulk Plant No. 306456
SITE LOCATION: 328.5 Illinois St., Fairbanks, Alaska
LOGGED BY: Jason Luckett
DRILLING CO: Discovery Drilling
DRILLER: Dick Banzhap
DRILLING METHOD: Hollow Stem Auger
DATE BEGUN: 7/26/07
DATE COMPLETED: 7/26/07
TOP OF PVC CASING ELEVATION (TOC): 443.29
DEPTH TO WATER BELOW TOC / (DATE): 15.45 ft (8/3/07)

WELL COMPLETION DETAILS

	TYPES	DEPTH (FT BGS)
WELL CASING:	2" Schedule 40 PVC	0-10
SURFACE CASING GROUT TYPE:	Native Fill	0-2
SEAL TYPE:	Bentonite chips	2-8
SAND PACK:	Colorado Silica Sand No. 10/20	8-25
WELL SCREEN:	15', 2" PVC screen, 0.010" slots	10-25
TOTAL DEPTH DRILLED:		25

DEPTH	SAMPLE INTERVAL	PID READING (PPM)	U.S.C.S. CLASS	LITHOLOGY	DESCRIPTION
0					Boring was manually cleared by Alaska Pipeliners from 0 to 8 feet below ground surface (bgs).
-10	9.5 to 11.5	13.2	SP		POORLY GRADED SAND WITH GRAVEL: light gray to light brown; fine grained sand with gravel, some coarse; dense (SPT, N blows/ft: 8,11,17,15); semi-moist.
-15	14.5 to 16.5	19.6	SP		POORLY GRADED SAND WITH GRAVEL: Same as above; except loose (SPT, N blows/ft: 12,8,6,4); moist to wet between 16 to 16.5 feet bgs.
-20	19.5 to 21.5	0.1	SP		POORLY GRADED SAND WITH GRAVEL: Same as above; except loose (SPT, N blows/ft: 2,4,5,5); wet to saturated.
-25					

WELL INSTALLATION



ARCADIS

Appendix B

Laboratory Data Reports

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1050289. Samples arrived at the laboratory on Tuesday, August 07, 2007. The PO# for this group is 0015014445 and the release number is HARTUNG-FRERICH.

Client Description	Lancaster Labs Number
MW-13 Grab Water Sample	5122023
Soil Cuttings Sample	5122024

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC COPY TO	Blasland, Bouck & Lee	Attn: Rebecca Andresen
ELECTRONIC COPY TO	Arcadis BBL	Attn: Vanessa Varbel
1 COPY TO	Data Package Group	

Lancaster Laboratories

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

Analysis Report

Questions? Contact your Client Services Representative
Rebecca J Shettel at (717) 656-2300

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5122023

MW-13 Grab Water Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK
Collected:08/03/2007 14:00 by JL

Account Number: 11964

Submitted: 08/07/2007 09:15
Reported: 08/17/2007 at 12:30
Discard: 09/17/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

MW13- SDG#: ALK60-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	0.04	0.01	mg/l	1
01588	BTEX					
01591	Benzene	71-43-2	0.001	0.001	mg/l	1
01592	Toluene	108-88-3	N.D.	0.001	mg/l	1
01593	Ethylbenzene	100-41-4	N.D.	0.001	mg/l	1
01723	Total xylenes	1330-20-7	N.D.	0.002	mg/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	0.044	0.019	mg/l	1
02946	C25-C36 RRO	n.a.	0.051	0.019	mg/l	1

State of Alaska Lab Certification No. UST-061
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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	08/09/2007 19:04	Martha L Seidel	1
01588	BTEX	SW-846 8021B	1	08/09/2007 19:04	Martha L Seidel	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	08/13/2007 23:50	Heather E Williams	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/09/2007 19:04	Martha L Seidel	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	08/12/2007 15:15	Elaine F Stoltzfus	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5122024

Soil Cuttings Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK
Collected:08/03/2007 16:00 by JL

Account Number: 11964

Submitted: 08/07/2007 09:15
Reported: 08/17/2007 at 12:30
Discard: 09/17/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SOILC SDG#: ALK60-02*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01742	TPH-DRO (AK) in soil	n.a.	240.	86.	mg/kg	20
06955	Lead	7439-92-1	7.85	0.515	mg/kg	1
00111	Moisture	n.a.	6.7	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	6.2	2.9	mg/kg	134.15
	Due to excessive foaming of the sample, normal reporting limits were not attained.					
05878	BTEX					
02174	Benzene	71-43-2	N.D.	0.03	mg/kg	134.15
02177	Toluene	108-88-3	0.03	0.03	mg/kg	134.15
02178	Ethylbenzene	100-41-4	N.D.	0.03	mg/kg	134.15
02182	Total Xylenes	1330-20-7	N.D.	0.09	mg/kg	134.15
	Due to excessive foaming of the sample, normal reporting limits were not attained.					

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01742	TPH-DRO (AK) in soil	AK 102/AK 103 04/08/02	1	08/15/2007 04:37	Heather E Williams	20
06955	Lead	SW-846 6010B	1	08/09/2007 10:47	Tara L Snyder	1
00111	Moisture	SM20 2540 G	1	08/08/2007 16:46	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/10/2007 10:46	Linda C Pape	134.15
05878	BTEX	SW-846 8021B	1	08/10/2007 10:46	Linda C Pape	134.15
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/10/2007 06:00	Jason A Heisey	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/08/2007 20:00	Annamaria Stipkovits	1

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Analysis Report

Lancaster Laboratories Sample No. SW 5122024

Soil Cuttings Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK
Collected:08/03/2007 16:00 by JL

Account Number: 11964

Submitted: 08/07/2007 09:15
Reported: 08/17/2007 at 12:30
Discard: 09/17/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SOILC SDG#: ALK60-02*

06119	GC - Field Preserved (AK-101)	AK 101	1	08/03/2007 16:00	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1050289
Reported: 08/17/07 at 12:30 PM

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	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 072205708001	Sample number(s): 5122024							
Lead	N.D.	0.490	mg/kg	98		91-109		
Batch number: 07220820005B	Sample number(s): 5122024							
Moisture				100		99-101		
Batch number: 07220A02C	Sample number(s): 5122024							
Alaska AK101 GRO (soils)	N.D.	0.5	mg/kg	77	91	60-120	0	20
Benzene	N.D.	0.005	mg/kg	98	88	76-118	11	30
Toluene	N.D.	0.005	mg/kg	90	81	72-115	11	30
Ethylbenzene	N.D.	0.005	mg/kg	96	86	77-115	10	30
Total Xylenes	N.D.	0.02	mg/kg	97	88	78-115	10	30
Batch number: 072210017A	Sample number(s): 5122024							
TPH-DRO (AK) in soil	N.D.	4.0	mg/kg	80	78	75-125	3	50
Batch number: 07221A54A	Sample number(s): 5122023							
Alaska AK101 GRO (waters)	N.D.	0.01	mg/l	96	94	60-120	2	20
Benzene	N.D.	0.001	mg/l	107	103	86-119	3	30
Toluene	N.D.	0.001	mg/l	107	104	82-119	2	30
Ethylbenzene	N.D.	0.001	mg/l	108	104	81-119	3	30
Total xylenes	N.D.	0.002	mg/l	111	108	82-120	3	30
Batch number: 072230004A	Sample number(s): 5122023							
C10-<C25 DRO	N.D.	0.020	mg/l	89	85	75-125	5	20
C25-C36 RRO	N.D.	0.020	mg/l	106	100	60-120	5	20

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 RPD Max
Batch number: 072205708001	Sample number(s): 5122024 UNSPK: P121958 BKG: P121958								
Lead	108	91	75-125	10	20	8.60	9.90	14	20
Batch number: 07220820005B	Sample number(s): 5122024 BKG: P120474								
Moisture						15.7	14.9	6	15
Batch number: 072210017A	Sample number(s): 5122024 UNSPK: P122027								
TPH-DRO (AK) in soil	(2)	(2)	60-140	5	50				
Batch number: 07221A54A	Sample number(s): 5122023 UNSPK: 5122023, P123086								
Alaska AK101 GRO (waters)	88	89	60-120	1	20				

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1050289
Reported: 08/17/07 at 12:30 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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzene	113	96	78-131	15	30				
Toluene	116	96	78-129	19	30				
Ethylbenzene	115	96	75-133	19	30				
Total xylenes	116	95	84-131	20	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: Alaska AK101 GRO (soils)
Batch number: 07220A02C

	Trifluorotoluene-F	Trifluorotoluene-P
5122024	15*	12*
Blank	96	97
LCS	98	94
LCSD	103	95
Limits:	60-120	55-124

Analysis Name: TPH-DRO (AK) in soil
Batch number: 072210017A

	Orthoterphenyl
5122024	30*
Blank	96
LCS	107
LCSD	103
MS	4*
MSD	3*
Limits:	50-150

Analysis Name: Alaska AK101 GRO (waters)
Batch number: 07221A54A

	Trifluorotoluene-F	Trifluorotoluene-P
5122023	87	92
Blank	90	91
LCS	99	91
LCSD	99	92
MS	91	94
MSD	92	93
Limits:	60-120	69-129

Analysis Name: TPH-DRO/RRO (AK) water
Batch number: 072230004A

	Orthoterphenyl	n-Triacontane-d62

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1050289
Reported: 08/17/07 at 12:30 PM

Surrogate Quality Control

5122023	95	70
Blank	94	93
LCS	78	99
LCSD	77	95
Limits:	50-150	50-150

*- Outside of specification
(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.

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
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For Lancaster Laboratories use only
Acct. #: 11964 Sample #: 5122023-24 SCR#: 244309
1050289

Facility #: Former Unocal #306456
Site Address: 328.5 Illinois St.
Chevron PM: Stacy Frenchs Lead Consultant:
Consultant/Office: Arcadis BBL
Consultant Prj. Mgr.: Rebecca Anderson
Consultant Phone #: 206 325 5254 Fax #:
Sampler: Jason Luckett
Service Order #: 00150144445 ☐ Non SAR:

Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	H VOCs (8260B) RUSH	H GRO	H DRO/RRO	BTEX, GRO	DRO & MOISTURE	LEAD (6010)
MW-13	GW	—	—	08/03/07	1400	—	X		6							2	2	2			
SOIL CUTTINGS	SOIL	—	—	08/03/07	1600				3							—			1	1	1

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8/6/07	1100			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by: [signature]	Date 8-7-07	Time 0915
Temperature Upon Receipt 5.6°C to 2.1°C			Custody Seals Intact? (Yes) No		

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	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 limit of quantitation, 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.

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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1049348. Samples arrived at the laboratory on Sunday, July 29, 2007. The PO# for this group is 0015014445 and the release number is HARTUNG-FRERICH.

Client Description	Lancaster Labs Number
MW 13 (9.5'-11.5') Grab Soil Sample	5116716
MW 13 (14.5'-16.5') Grab Soil Sample	5116717

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC COPY TO	Blasland, Bouck & Lee	Attn: Rebecca Andresen
ELECTRONIC COPY TO	Arcadis BBL	Attn: Vanessa Varbel
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Rebecca J Shettel at (717) 656-2300

Respectfully Submitted,

Melissa A. McDermott
Senior Chemist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5116716

MW 13 (9.5'-11.5') Grab Soil Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK
Collected:07/26/2007 10:30 by JH

Account Number: 11964

Submitted: 07/29/2007 10:00
Reported: 08/09/2007 at 12:29
Discard: 09/09/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

13--9 SDG#: ALK49-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	1.2	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	14.	0.5	mg/kg	27.01
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	N.D.	4.0	mg/kg	1
01740	C25-C36 RRO	n.a.	N.D.	4.0	mg/kg	1
05878	BTEX					
02174	Benzene	71-43-2	N.D.	0.005	mg/kg	27.01
02177	Toluene	108-88-3	0.03	0.005	mg/kg	27.01
02178	Ethylbenzene	100-41-4	N.D.	0.005	mg/kg	27.01
02182	Total Xylenes	1330-20-7	0.02	0.02	mg/kg	27.01

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/02/2007 16:46	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/03/2007 00:26	Linda C Pape	27.01
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/04/2007 04:22	Heather E Williams	1
05878	BTEX	SW-846 8021B	1	08/03/2007 00:26	Linda C Pape	27.01
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/02/2007 16:30	Doreen K Robles	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/26/2007 10:30	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5116716

MW 13 (9.5'-11.5') Grab Soil Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK
Collected:07/26/2007 10:30 by JH

Account Number: 11964

Submitted: 07/29/2007 10:00
Reported: 08/09/2007 at 12:29
Discard: 09/09/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

13--9 SDG#: ALK49-01

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5116717

MW 13 (14.5'-16.5') Grab Soil Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK
Collected:07/26/2007 10:30 by JH

Account Number: 11964

Submitted: 07/29/2007 10:00
Reported: 08/09/2007 at 12:29
Discard: 09/09/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

13-14 SDG#: ALK49-02*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	2.9	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	1.7	0.5	mg/kg	24.59
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	N.D.	4.1	mg/kg	1
01740	C25-C36 RRO	n.a.	19.	4.1	mg/kg	1
05878	BTEX					
02174	Benzene	71-43-2	N.D.	0.005	mg/kg	24.59
02177	Toluene	108-88-3	0.02	0.005	mg/kg	24.59
02178	Ethylbenzene	100-41-4	N.D.	0.005	mg/kg	24.59
02182	Total Xylenes	1330-20-7	N.D.	0.02	mg/kg	24.59

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/02/2007 16:46	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/02/2007 14:44	Linda C Pape	24.59
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/04/2007 05:35	Heather E Williams	1
05878	BTEX	SW-846 8021B	1	08/02/2007 14:44	Linda C Pape	24.59
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/02/2007 16:30	Doreen K Robles	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/26/2007 10:30	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5116717

MW 13 (14.5'-16.5') Grab Soil Sample
Facility# 306456
328.5 Illinois St. - Fairbanks, AK
Collected:07/26/2007 10:30 by JH

Account Number: 11964

Submitted: 07/29/2007 10:00
Reported: 08/09/2007 at 12:29
Discard: 09/09/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

13-14 SDG#: ALK49-02*

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1049348
Reported: 08/09/07 at 12:29 PM

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	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07213A02B	Sample number(s): 5116716-5116717							
Alaska AK101 GRO (soils)	N.D.	0.5	mg/kg	91	93	60-120	0	20
Benzene	N.D.	0.005	mg/kg	100	105	76-118	4	30
Toluene	N.D.	0.005	mg/kg	94	97	72-115	3	30
Ethylbenzene	N.D.	0.005	mg/kg	99	103	77-115	3	30
Total Xylenes	N.D.	0.02	mg/kg	101	104	78-115	3	30
Batch number: 072140014A	Sample number(s): 5116716-5116717							
C10-<C25 DRO	N.D.	4.0	mg/kg	105	101	75-125	4	50
C25-C36 RRO	N.D.	4.0	mg/kg	113	108	75-125	4	50
Batch number: 07214820002B	Sample number(s): 5116716-5116717							
Moisture				100		99-101		

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 RPD Max
Batch number: 072140014A	Sample number(s): 5116716-5116717 UNSPK: 5116716								
C10-<C25 DRO	97	100	60-140	3	50				
C25-C36 RRO	110	113	60-140	2	50				
Batch number: 07214820002B	Sample number(s): 5116716-5116717 BKG: P116707								
Moisture						7.9	16.7	71*	15

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: Alaska AK101 GRO (soils)
Batch number: 07213A02B

	Trifluorotoluene-F	Trifluorotoluene-P
5116716	196*	126*
5116717	105	102
Blank	102	101
LCS	105	96
LCSD	102	94

*- Outside of specification
(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: Chevron Group Number: 1049348
Reported: 08/09/07 at 12:29 PM

Surrogate Quality Control

Limits:	60-120	55-124
Analysis Name: TPH-DRO/RRO (AK)		
Batch number: 072140014A		
	Orthoterphenyl	n-Triacontane-d62
5116716	85	93
5116717	77	94
Blank	93	102
LCS	79	90
LCSD	75	83
MS	78	91
MSD	74	97
Limits:	50-150	50-150

*- Outside of specification
(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.

Chevron Generic Analysis Request/Chain of Custody

Lancaster Laboratories
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009576

For Lancaster Laboratories use only
Acct. #: 11964 Sample #: 61049348 5116716-7 SCR#: 46190

Facility #: 92114, 306456
Site Address: 3245 College Road, 328.5 Illinois St.
Chevron PM: Stacie Frerichs Lead Consultant: ~~Rebecca Andresen~~ AGRL
Consultant/Office: Seattle, WA
Consultant Prj. Mgr.: Rebecca Andresen
Consultant Phone #: 206 295 3273 Fax #:
Sampler: Jason Leavitt, Jocelyn Hastain
Service Order #: 00/5014445 ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (☐ Potable ☐ NPDES)	Matrix: Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates ____	TPH G ____	TPH D ____ ☐ Extended Rng. ☐ Silica Gel Cleanup	Lead Total ☐ Diss. ☐ Method ____	VPH/EPH	NWTPH H HCID ☐ quantification	BTEX + GRO	AK DRO	AK DRO + RRO	
SB 2 11'-13'	7/25/07	1200	✓		✓			2									1	1		
SB 3 11'-13'	7/25/07	1330	✓		✓			2									1	1		
SB 4 13-15'	7/25/07	1400	✓		✓			2									1	1		
SB 1 9'-11'	7/25/07	1100	✓		✓			2									1	1		
SB 3 13'-15'	7/25/07	1330	✓		✓			2									1	1		
SB 2 9'-11'	7/25/07	1200	✓		✓			2									1	1		
SB 1 11'-13'	7/25/07	1100	✓		✓			2									1	1		
SB 4 11'-13'	7/25/07	1400	✓		✓			2									1	1		
MW 13 9.5'-11.5'	7/26/07	1030	✓		✓			2									1		1	
MW 13 14.5'-16.5'	7/26/07	1030	✓		✓			2									1		1	

92114
306456

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
NWRTB
0306456-O-AGL
92114 - College Road
306456 - Former Unocal
BTEX 8021
GRO AK101
per RA
RJS 7/31/07

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk _____ Other.

	Date	Time		Date	Time
Relinquished by:	7/26/07	0710	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	7/27/07	0900
Temperature Upon Receipt 3.6 C°			Custody Seals Intact? Yes No		

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	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 limit of quantitation, 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.

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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1049988. Samples arrived at the laboratory on Thursday, August 02, 2007. The PO# for this group is 0015014445 and the release number is HARTUNG-FRERICH.

Client Description	Lancaster Labs Number
SB-1 Grab Soil Sample	5120119
SB-2 Grab Soil Sample	5120120
SB-3 Grab Soil Sample	5120121
SB-4 Grab Soil Sample	5120122
SB-5 Grab Soil Sample	5120123
SB-6 Grab Soil Sample	5120124

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC COPY TO	Blasland, Bouck & Lee	Attn: Rebecca Andresen
ELECTRONIC COPY TO	Arcadis BBL	Attn: Vanessa Varbel
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Rebecca J Shettel at (717) 656-2300

Respectfully Submitted,

Susan M. Goshert
Group Leader

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. SW 5120119

SB-1 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 08:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB001 SDG#: ALK55-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	23.5	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	N.D.	6.3	mg/kg	241.78
	Due to excessive foaming of the sample, normal reporting limits were not attained.					
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	26.	5.2	mg/kg	1
01740	C25-C36 RRO	n.a.	49.	5.2	mg/kg	1
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.036	mg/kg	54.97
02017	di-Isopropyl ether	108-20-3	N.D.	0.072	mg/kg	54.97
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.072	mg/kg	54.97
02019	t-Amyl methyl ether	994-05-8	N.D.	0.072	mg/kg	54.97
02020	t-Butyl alcohol	75-65-0	N.D.	1.4	mg/kg	54.97
06089	Ethanol	64-17-5	N.D.	7.2	mg/kg	54.97
06293	Acetone	67-64-1	N.D.	0.50	mg/kg	54.97
06294	Carbon Disulfide	75-15-0	N.D.	0.072	mg/kg	54.97
06296	2-Butanone	78-93-3	N.D.	0.29	mg/kg	54.97
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.072	mg/kg	54.97
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.072	mg/kg	54.97
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.22	mg/kg	54.97
06300	2-Hexanone	591-78-6	N.D.	0.22	mg/kg	54.97
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.14	mg/kg	54.97
08199	Freon 113	76-13-1	N.D.	0.14	mg/kg	54.97
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.14	mg/kg	54.97
05444	Chloromethane	74-87-3	N.D.	0.14	mg/kg	54.97
05445	Vinyl Chloride	75-01-4	N.D.	0.072	mg/kg	54.97
05446	Bromomethane	74-83-9	N.D.	0.14	mg/kg	54.97
05447	Chloroethane	75-00-3	N.D.	0.14	mg/kg	54.97
05448	Trichlorofluoromethane	75-69-4	N.D.	0.14	mg/kg	54.97

Lancaster Laboratories Sample No. SW 5120119

SB-1 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 08:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB001 SDG#: ALK55-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05449	1,1-Dichloroethene	75-35-4	N.D.	0.072	mg/kg	54.97
05450	Methylene Chloride	75-09-2	N.D.	0.14	mg/kg	54.97
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.072	mg/kg	54.97
05452	1,1-Dichloroethane	75-34-3	N.D.	0.072	mg/kg	54.97
05453	2,2-Dichloropropane	594-20-7	N.D.	0.072	mg/kg	54.97
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.072	mg/kg	54.97
05455	Chloroform	67-66-3	N.D.	0.072	mg/kg	54.97
05456	Bromochloromethane	74-97-5	N.D.	0.072	mg/kg	54.97
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.072	mg/kg	54.97
05458	Carbon Tetrachloride	56-23-5	N.D.	0.072	mg/kg	54.97
05459	1,1-Dichloropropene	563-58-6	N.D.	0.072	mg/kg	54.97
05460	Benzene	71-43-2	N.D.	0.036	mg/kg	54.97
05461	1,2-Dichloroethane	107-06-2	N.D.	0.072	mg/kg	54.97
05462	Trichloroethene	79-01-6	N.D.	0.072	mg/kg	54.97
05463	1,2-Dichloropropane	78-87-5	N.D.	0.072	mg/kg	54.97
05464	Dibromomethane	74-95-3	N.D.	0.072	mg/kg	54.97
05465	Bromodichloromethane	75-27-4	N.D.	0.072	mg/kg	54.97
05466	Toluene	108-88-3	N.D.	0.072	mg/kg	54.97
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.072	mg/kg	54.97
05468	Tetrachloroethene	127-18-4	N.D.	0.072	mg/kg	54.97
05469	1,3-Dichloropropane	142-28-9	N.D.	0.072	mg/kg	54.97
05470	Dibromochloromethane	124-48-1	N.D.	0.072	mg/kg	54.97
05471	1,2-Dibromoethane	106-93-4	N.D.	0.072	mg/kg	54.97
05472	Chlorobenzene	108-90-7	N.D.	0.072	mg/kg	54.97
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.072	mg/kg	54.97
05474	Ethylbenzene	100-41-4	N.D.	0.072	mg/kg	54.97
05475	m+p-Xylene	1330-20-7	N.D.	0.072	mg/kg	54.97
05476	o-Xylene	95-47-6	N.D.	0.072	mg/kg	54.97
05477	Styrene	100-42-5	N.D.	0.072	mg/kg	54.97
05478	Bromoform	75-25-2	N.D.	0.072	mg/kg	54.97
05479	Isopropylbenzene	98-82-8	N.D.	0.072	mg/kg	54.97
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.072	mg/kg	54.97
05481	Bromobenzene	108-86-1	N.D.	0.072	mg/kg	54.97
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.072	mg/kg	54.97
05483	n-Propylbenzene	103-65-1	N.D.	0.072	mg/kg	54.97
05484	2-Chlorotoluene	95-49-8	N.D.	0.072	mg/kg	54.97
05485	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.072	mg/kg	54.97
05486	4-Chlorotoluene	106-43-4	N.D.	0.072	mg/kg	54.97
05487	tert-Butylbenzene	98-06-6	N.D.	0.072	mg/kg	54.97
05488	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.072	mg/kg	54.97
05489	sec-Butylbenzene	135-98-8	N.D.	0.072	mg/kg	54.97
05490	p-Isopropyltoluene	99-87-6	N.D.	0.072	mg/kg	54.97

Lancaster Laboratories Sample No. SW 5120119

SB-1 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 08:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB001 SDG#: ALK55-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.072	mg/kg	54.97
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.072	mg/kg	54.97
05493	n-Butylbenzene	104-51-8	N.D.	0.072	mg/kg	54.97
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.072	mg/kg	54.97
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.14	mg/kg	54.97
05496	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.072	mg/kg	54.97
05497	Hexachlorobutadiene	87-68-3	N.D.	0.14	mg/kg	54.97
05498	Naphthalene	91-20-3	N.D.	0.072	mg/kg	54.97
05499	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.072	mg/kg	54.97

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/06/2007 23:01	Linda C Pape	241.78
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/10/2007 02:29	Heather E Williams	1
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 10:11	Stephanie A Selis	54.97
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 10:11	Stephanie A Selis	54.97
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 08:00	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 08:00	Client Supplied	1

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Analysis Report

Lancaster Laboratories Sample No. SW 5120120

SB-2 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 08:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB002 SDG#: ALK55-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	2.8	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	61.	2.1	mg/kg	102.97
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	280.	21.	mg/kg	5
01740	C25-C36 RRO	n.a.	48.	21.	mg/kg	5
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.028	mg/kg	53.51
02017	di-Isopropyl ether	108-20-3	N.D.	0.055	mg/kg	53.51
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.055	mg/kg	53.51
02019	t-Amyl methyl ether	994-05-8	N.D.	0.055	mg/kg	53.51
02020	t-Butyl alcohol	75-65-0	N.D.	1.1	mg/kg	53.51
06089	Ethanol	64-17-5	5.6	5.5	mg/kg	53.51
06293	Acetone	67-64-1	N.D.	0.39	mg/kg	53.51
06294	Carbon Disulfide	75-15-0	N.D.	0.055	mg/kg	53.51
06296	2-Butanone	78-93-3	N.D.	0.22	mg/kg	53.51
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.055	mg/kg	53.51
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.055	mg/kg	53.51
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.17	mg/kg	53.51
06300	2-Hexanone	591-78-6	N.D.	0.17	mg/kg	53.51
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.11	mg/kg	53.51
08199	Freon 113	76-13-1	N.D.	0.11	mg/kg	53.51
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.11	mg/kg	53.51
05444	Chloromethane	74-87-3	N.D.	0.11	mg/kg	53.51
05445	Vinyl Chloride	75-01-4	N.D.	0.055	mg/kg	53.51
05446	Bromomethane	74-83-9	N.D.	0.11	mg/kg	53.51
05447	Chloroethane	75-00-3	N.D.	0.11	mg/kg	53.51
05448	Trichlorofluoromethane	75-69-4	N.D.	0.11	mg/kg	53.51
05449	1,1-Dichloroethene	75-35-4	N.D.	0.055	mg/kg	53.51
05450	Methylene Chloride	75-09-2	N.D.	0.11	mg/kg	53.51

Lancaster Laboratories Sample No. SW 5120120

SB-2 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 08:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB002 SDG#: ALK55-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.055	mg/kg	53.51
05452	1,1-Dichloroethane	75-34-3	N.D.	0.055	mg/kg	53.51
05453	2,2-Dichloropropane	594-20-7	N.D.	0.055	mg/kg	53.51
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.055	mg/kg	53.51
05455	Chloroform	67-66-3	N.D.	0.055	mg/kg	53.51
05456	Bromochloromethane	74-97-5	N.D.	0.055	mg/kg	53.51
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.055	mg/kg	53.51
05458	Carbon Tetrachloride	56-23-5	N.D.	0.055	mg/kg	53.51
05459	1,1-Dichloropropene	563-58-6	N.D.	0.055	mg/kg	53.51
05460	Benzene	71-43-2	N.D.	0.028	mg/kg	53.51
05461	1,2-Dichloroethane	107-06-2	N.D.	0.055	mg/kg	53.51
05462	Trichloroethene	79-01-6	N.D.	0.055	mg/kg	53.51
05463	1,2-Dichloropropane	78-87-5	N.D.	0.055	mg/kg	53.51
05464	Dibromomethane	74-95-3	N.D.	0.055	mg/kg	53.51
05465	Bromodichloromethane	75-27-4	N.D.	0.055	mg/kg	53.51
05466	Toluene	108-88-3	N.D.	0.055	mg/kg	53.51
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.055	mg/kg	53.51
05468	Tetrachloroethene	127-18-4	N.D.	0.055	mg/kg	53.51
05469	1,3-Dichloropropane	142-28-9	N.D.	0.055	mg/kg	53.51
05470	Dibromochloromethane	124-48-1	N.D.	0.055	mg/kg	53.51
05471	1,2-Dibromoethane	106-93-4	N.D.	0.055	mg/kg	53.51
05472	Chlorobenzene	108-90-7	N.D.	0.055	mg/kg	53.51
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.055	mg/kg	53.51
05474	Ethylbenzene	100-41-4	N.D.	0.055	mg/kg	53.51
05475	m+p-Xylene	1330-20-7	0.074	0.055	mg/kg	53.51
05476	o-Xylene	95-47-6	N.D.	0.055	mg/kg	53.51
05477	Styrene	100-42-5	N.D.	0.055	mg/kg	53.51
05478	Bromoform	75-25-2	N.D.	0.055	mg/kg	53.51
05479	Isopropylbenzene	98-82-8	N.D.	0.055	mg/kg	53.51
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.055	mg/kg	53.51
05481	Bromobenzene	108-86-1	N.D.	0.055	mg/kg	53.51
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.055	mg/kg	53.51
05483	n-Propylbenzene	103-65-1	N.D.	0.055	mg/kg	53.51
05484	2-Chlorotoluene	95-49-8	N.D.	0.055	mg/kg	53.51
05485	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.055	mg/kg	53.51
05486	4-Chlorotoluene	106-43-4	N.D.	0.055	mg/kg	53.51
05487	tert-Butylbenzene	98-06-6	N.D.	0.055	mg/kg	53.51
05488	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.055	mg/kg	53.51
05489	sec-Butylbenzene	135-98-8	N.D.	0.055	mg/kg	53.51
05490	p-Isopropyltoluene	99-87-6	N.D.	0.055	mg/kg	53.51
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.055	mg/kg	53.51
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.055	mg/kg	53.51

Lancaster Laboratories Sample No. SW 5120120

SB-2 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 08:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB002 SDG#: ALK55-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05493	n-Butylbenzene	104-51-8	N.D.	0.055	mg/kg	53.51
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.055	mg/kg	53.51
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.11	mg/kg	53.51
05496	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.055	mg/kg	53.51
05497	Hexachlorobutadiene	87-68-3	N.D.	0.11	mg/kg	53.51
05498	Naphthalene	91-20-3	N.D.	0.055	mg/kg	53.51
05499	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.055	mg/kg	53.51

Ethanol was detected in the method blank at an estimated concentration of 7.6 mg/kg. The blank value was not subtracted from the analytical result. Ethanol is a contaminate in the methanol used to perform the high level extraction.

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/07/2007 17:33	Linda C Pape	102.97
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/10/2007 03:42	Heather E Williams	5
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 10:34	Stephanie A Selis	53.51
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 10:34	Stephanie A Selis	53.51
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 08:30	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 08:30	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5120121

SB-3 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 09:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB003 SDG#: ALK55-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	3.8	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	8.6	0.4	mg/kg	20.03
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	590.	210.	mg/kg	50
01740	C25-C36 RRO	n.a.	N.D.	210.	mg/kg	50
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.047	mg/kg	91.04
02017	di-Isopropyl ether	108-20-3	N.D.	0.095	mg/kg	91.04
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.095	mg/kg	91.04
02019	t-Amyl methyl ether	994-05-8	N.D.	0.095	mg/kg	91.04
02020	t-Butyl alcohol	75-65-0	N.D.	1.9	mg/kg	91.04
06089	Ethanol	64-17-5	9.6	9.5	mg/kg	91.04
06293	Acetone	67-64-1	N.D.	0.66	mg/kg	91.04
06294	Carbon Disulfide	75-15-0	N.D.	0.095	mg/kg	91.04
06296	2-Butanone	78-93-3	N.D.	0.38	mg/kg	91.04
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.095	mg/kg	91.04
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.095	mg/kg	91.04
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.28	mg/kg	91.04
06300	2-Hexanone	591-78-6	N.D.	0.28	mg/kg	91.04
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.19	mg/kg	91.04
08199	Freon 113	76-13-1	N.D.	0.19	mg/kg	91.04
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.19	mg/kg	91.04
05444	Chloromethane	74-87-3	N.D.	0.19	mg/kg	91.04
05445	Vinyl Chloride	75-01-4	N.D.	0.095	mg/kg	91.04
05446	Bromomethane	74-83-9	N.D.	0.19	mg/kg	91.04
05447	Chloroethane	75-00-3	N.D.	0.19	mg/kg	91.04
05448	Trichlorofluoromethane	75-69-4	N.D.	0.19	mg/kg	91.04
05449	1,1-Dichloroethene	75-35-4	N.D.	0.095	mg/kg	91.04
05450	Methylene Chloride	75-09-2	N.D.	0.19	mg/kg	91.04

Lancaster Laboratories Sample No. SW 5120121

SB-3 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 09:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB003 SDG#: ALK55-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.095	mg/kg	91.04
05452	1,1-Dichloroethane	75-34-3	N.D.	0.095	mg/kg	91.04
05453	2,2-Dichloropropane	594-20-7	N.D.	0.095	mg/kg	91.04
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.095	mg/kg	91.04
05455	Chloroform	67-66-3	N.D.	0.095	mg/kg	91.04
05456	Bromochloromethane	74-97-5	N.D.	0.095	mg/kg	91.04
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.095	mg/kg	91.04
05458	Carbon Tetrachloride	56-23-5	N.D.	0.095	mg/kg	91.04
05459	1,1-Dichloropropene	563-58-6	N.D.	0.095	mg/kg	91.04
05460	Benzene	71-43-2	N.D.	0.047	mg/kg	91.04
05461	1,2-Dichloroethane	107-06-2	N.D.	0.095	mg/kg	91.04
05462	Trichloroethene	79-01-6	N.D.	0.095	mg/kg	91.04
05463	1,2-Dichloropropane	78-87-5	N.D.	0.095	mg/kg	91.04
05464	Dibromomethane	74-95-3	N.D.	0.095	mg/kg	91.04
05465	Bromodichloromethane	75-27-4	N.D.	0.095	mg/kg	91.04
05466	Toluene	108-88-3	N.D.	0.095	mg/kg	91.04
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.095	mg/kg	91.04
05468	Tetrachloroethene	127-18-4	N.D.	0.095	mg/kg	91.04
05469	1,3-Dichloropropane	142-28-9	N.D.	0.095	mg/kg	91.04
05470	Dibromochloromethane	124-48-1	N.D.	0.095	mg/kg	91.04
05471	1,2-Dibromoethane	106-93-4	N.D.	0.095	mg/kg	91.04
05472	Chlorobenzene	108-90-7	N.D.	0.095	mg/kg	91.04
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.095	mg/kg	91.04
05474	Ethylbenzene	100-41-4	N.D.	0.095	mg/kg	91.04
05475	m+p-Xylene	1330-20-7	N.D.	0.095	mg/kg	91.04
05476	o-Xylene	95-47-6	N.D.	0.095	mg/kg	91.04
05477	Styrene	100-42-5	N.D.	0.095	mg/kg	91.04
05478	Bromoform	75-25-2	N.D.	0.095	mg/kg	91.04
05479	Isopropylbenzene	98-82-8	N.D.	0.095	mg/kg	91.04
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.095	mg/kg	91.04
05481	Bromobenzene	108-86-1	N.D.	0.095	mg/kg	91.04
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.095	mg/kg	91.04
05483	n-Propylbenzene	103-65-1	N.D.	0.095	mg/kg	91.04
05484	2-Chlorotoluene	95-49-8	N.D.	0.095	mg/kg	91.04
05485	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.095	mg/kg	91.04
05486	4-Chlorotoluene	106-43-4	N.D.	0.095	mg/kg	91.04
05487	tert-Butylbenzene	98-06-6	N.D.	0.095	mg/kg	91.04
05488	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.095	mg/kg	91.04
05489	sec-Butylbenzene	135-98-8	N.D.	0.095	mg/kg	91.04
05490	p-Isopropyltoluene	99-87-6	N.D.	0.095	mg/kg	91.04
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.095	mg/kg	91.04
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.095	mg/kg	91.04

Lancaster Laboratories Sample No. SW 5120121

SB-3 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 09:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB003 SDG#: ALK55-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05493	n-Butylbenzene	104-51-8	N.D.	0.095	mg/kg	91.04
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.095	mg/kg	91.04
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.19	mg/kg	91.04
05496	1,2,4-Trichlorobenzene	120-82-1	0.20	0.095	mg/kg	91.04
05497	Hexachlorobutadiene	87-68-3	N.D.	0.19	mg/kg	91.04
05498	Naphthalene	91-20-3	N.D.	0.095	mg/kg	91.04
05499	1,2,3-Trichlorobenzene	87-61-6	0.81	0.095	mg/kg	91.04

Ethanol was detected in the method blank at an estimated concentration of 7.6 mg/kg. The blank value was not subtracted from the analytical result. Ethanol is a contaminate in the methanol used to perform the high level extraction.

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/07/2007 18:16	Linda C Pape	20.03
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/13/2007 18:54	Heather E Williams	50
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 10:57	Stephanie A Selis	91.04
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 10:57	Stephanie A Selis	91.04
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 09:00	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 09:00	Client Supplied	1

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Analysis Report

Lancaster Laboratories Sample No. SW 5120122

SB-4 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 09:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB004 SDG#: ALK55-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	3.8	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	210.	9.2	mg/kg	442.63
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	2,600.	420.	mg/kg	100
01740	C25-C36 RRO	n.a.	N.D.	420.	mg/kg	100
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.025	mg/kg	48.15
02017	di-Isopropyl ether	108-20-3	N.D.	0.050	mg/kg	48.15
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.050	mg/kg	48.15
02019	t-Amyl methyl ether	994-05-8	N.D.	0.050	mg/kg	48.15
02020	t-Butyl alcohol	75-65-0	N.D.	1.0	mg/kg	48.15
06089	Ethanol	64-17-5	5.5	5.0	mg/kg	48.15
06293	Acetone	67-64-1	N.D.	0.35	mg/kg	48.15
06294	Carbon Disulfide	75-15-0	N.D.	0.050	mg/kg	48.15
06296	2-Butanone	78-93-3	N.D.	0.20	mg/kg	48.15
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.050	mg/kg	48.15
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.050	mg/kg	48.15
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.15	mg/kg	48.15
06300	2-Hexanone	591-78-6	N.D.	0.15	mg/kg	48.15
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.10	mg/kg	48.15
08199	Freon 113	76-13-1	N.D.	0.10	mg/kg	48.15
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.10	mg/kg	48.15
05444	Chloromethane	74-87-3	N.D.	0.10	mg/kg	48.15
05445	Vinyl Chloride	75-01-4	N.D.	0.050	mg/kg	48.15
05446	Bromomethane	74-83-9	N.D.	0.10	mg/kg	48.15
05447	Chloroethane	75-00-3	N.D.	0.10	mg/kg	48.15
05448	Trichlorofluoromethane	75-69-4	N.D.	0.10	mg/kg	48.15
05449	1,1-Dichloroethene	75-35-4	N.D.	0.050	mg/kg	48.15
05450	Methylene Chloride	75-09-2	N.D.	0.10	mg/kg	48.15

Lancaster Laboratories Sample No. SW 5120122

SB-4 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 09:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB004 SDG#: ALK55-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.050	mg/kg	48.15
05452	1,1-Dichloroethane	75-34-3	N.D.	0.050	mg/kg	48.15
05453	2,2-Dichloropropane	594-20-7	N.D.	0.050	mg/kg	48.15
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.050	mg/kg	48.15
05455	Chloroform	67-66-3	N.D.	0.050	mg/kg	48.15
05456	Bromochloromethane	74-97-5	N.D.	0.050	mg/kg	48.15
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.050	mg/kg	48.15
05458	Carbon Tetrachloride	56-23-5	N.D.	0.050	mg/kg	48.15
05459	1,1-Dichloropropene	563-58-6	N.D.	0.050	mg/kg	48.15
05460	Benzene	71-43-2	N.D.	0.025	mg/kg	48.15
05461	1,2-Dichloroethane	107-06-2	N.D.	0.050	mg/kg	48.15
05462	Trichloroethene	79-01-6	N.D.	0.050	mg/kg	48.15
05463	1,2-Dichloropropane	78-87-5	N.D.	0.050	mg/kg	48.15
05464	Dibromomethane	74-95-3	N.D.	0.050	mg/kg	48.15
05465	Bromodichloromethane	75-27-4	N.D.	0.050	mg/kg	48.15
05466	Toluene	108-88-3	0.060	0.050	mg/kg	48.15
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.050	mg/kg	48.15
05468	Tetrachloroethene	127-18-4	N.D.	0.050	mg/kg	48.15
05469	1,3-Dichloropropane	142-28-9	N.D.	0.050	mg/kg	48.15
05470	Dibromochloromethane	124-48-1	N.D.	0.050	mg/kg	48.15
05471	1,2-Dibromoethane	106-93-4	N.D.	0.050	mg/kg	48.15
05472	Chlorobenzene	108-90-7	N.D.	0.050	mg/kg	48.15
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.050	mg/kg	48.15
05474	Ethylbenzene	100-41-4	N.D.	0.050	mg/kg	48.15
05475	m+p-Xylene	1330-20-7	0.081	0.050	mg/kg	48.15
05476	o-Xylene	95-47-6	0.28	0.050	mg/kg	48.15
05477	Styrene	100-42-5	N.D.	0.050	mg/kg	48.15
05478	Bromoform	75-25-2	N.D.	0.050	mg/kg	48.15
05479	Isopropylbenzene	98-82-8	N.D.	0.050	mg/kg	48.15
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.050	mg/kg	48.15
05481	Bromobenzene	108-86-1	N.D.	0.050	mg/kg	48.15
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.050	mg/kg	48.15
05483	n-Propylbenzene	103-65-1	N.D.	0.050	mg/kg	48.15
05484	2-Chlorotoluene	95-49-8	N.D.	0.050	mg/kg	48.15
05485	1,3,5-Trimethylbenzene	108-67-8	0.27	0.050	mg/kg	48.15
05486	4-Chlorotoluene	106-43-4	N.D.	0.050	mg/kg	48.15
05487	tert-Butylbenzene	98-06-6	N.D.	0.050	mg/kg	48.15
05488	1,2,4-Trimethylbenzene	95-63-6	0.11	0.050	mg/kg	48.15
05489	sec-Butylbenzene	135-98-8	N.D.	0.050	mg/kg	48.15
05490	p-Isopropyltoluene	99-87-6	N.D.	0.050	mg/kg	48.15
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.050	mg/kg	48.15
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.050	mg/kg	48.15

Lancaster Laboratories Sample No. SW 5120122

SB-4 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 09:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB004 SDG#: ALK55-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05493	n-Butylbenzene	104-51-8	N.D.	0.050	mg/kg	48.15
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.050	mg/kg	48.15
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.10	mg/kg	48.15
05496	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.050	mg/kg	48.15
05497	Hexachlorobutadiene	87-68-3	N.D.	0.10	mg/kg	48.15
05498	Naphthalene	91-20-3	0.080	0.050	mg/kg	48.15
05499	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.050	mg/kg	48.15

Ethanol was detected in the method blank at an estimated concentration of 7.6 mg/kg. The blank value was not subtracted from the analytical result. Ethanol is a contaminate in the methanol used to perform the high level extraction.

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/08/2007 01:39	Linda C Pape	442.63
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/13/2007 19:19	Heather E Williams	100
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 11:20	Stephanie A Selis	48.15
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 11:20	Stephanie A Selis	48.15
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 09:30	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 09:30	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5120123

SB-5 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 10:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB005 SDG#: ALK55-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	6.2	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	N.D.	5.2	mg/kg	242.91
	Due to excessive foaming of the sample, normal reporting limits were not attained.					
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	450.	21.	mg/kg	5
01740	C25-C36 RRO	n.a.	200.	21.	mg/kg	5
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.011	mg/kg	21.08
02017	di-Isopropyl ether	108-20-3	N.D.	0.022	mg/kg	21.08
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.022	mg/kg	21.08
02019	t-Amyl methyl ether	994-05-8	N.D.	0.022	mg/kg	21.08
02020	t-Butyl alcohol	75-65-0	N.D.	0.45	mg/kg	21.08
06089	Ethanol	64-17-5	N.D.	2.2	mg/kg	21.08
06293	Acetone	67-64-1	N.D.	0.16	mg/kg	21.08
06294	Carbon Disulfide	75-15-0	N.D.	0.022	mg/kg	21.08
06296	2-Butanone	78-93-3	N.D.	0.090	mg/kg	21.08
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.022	mg/kg	21.08
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.022	mg/kg	21.08
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.067	mg/kg	21.08
06300	2-Hexanone	591-78-6	N.D.	0.067	mg/kg	21.08
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.045	mg/kg	21.08
08199	Freon 113	76-13-1	N.D.	0.045	mg/kg	21.08
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.045	mg/kg	21.08
05444	Chloromethane	74-87-3	N.D.	0.045	mg/kg	21.08
05445	Vinyl Chloride	75-01-4	N.D.	0.022	mg/kg	21.08
05446	Bromomethane	74-83-9	N.D.	0.045	mg/kg	21.08
05447	Chloroethane	75-00-3	N.D.	0.045	mg/kg	21.08
05448	Trichlorofluoromethane	75-69-4	N.D.	0.045	mg/kg	21.08

Lancaster Laboratories Sample No. SW 5120123

SB-5 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 10:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB005 SDG#: ALK55-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05449	1,1-Dichloroethene	75-35-4	N.D.	0.022	mg/kg	21.08
05450	Methylene Chloride	75-09-2	N.D.	0.045	mg/kg	21.08
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.022	mg/kg	21.08
05452	1,1-Dichloroethane	75-34-3	N.D.	0.022	mg/kg	21.08
05453	2,2-Dichloropropane	594-20-7	N.D.	0.022	mg/kg	21.08
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.022	mg/kg	21.08
05455	Chloroform	67-66-3	N.D.	0.022	mg/kg	21.08
05456	Bromochloromethane	74-97-5	N.D.	0.022	mg/kg	21.08
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.022	mg/kg	21.08
05458	Carbon Tetrachloride	56-23-5	N.D.	0.022	mg/kg	21.08
05459	1,1-Dichloropropene	563-58-6	N.D.	0.022	mg/kg	21.08
05460	Benzene	71-43-2	N.D.	0.011	mg/kg	21.08
05461	1,2-Dichloroethane	107-06-2	N.D.	0.022	mg/kg	21.08
05462	Trichloroethene	79-01-6	N.D.	0.022	mg/kg	21.08
05463	1,2-Dichloropropane	78-87-5	N.D.	0.022	mg/kg	21.08
05464	Dibromomethane	74-95-3	N.D.	0.022	mg/kg	21.08
05465	Bromodichloromethane	75-27-4	N.D.	0.022	mg/kg	21.08
05466	Toluene	108-88-3	N.D.	0.022	mg/kg	21.08
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.022	mg/kg	21.08
05468	Tetrachloroethene	127-18-4	N.D.	0.022	mg/kg	21.08
05469	1,3-Dichloropropane	142-28-9	N.D.	0.022	mg/kg	21.08
05470	Dibromochloromethane	124-48-1	N.D.	0.022	mg/kg	21.08
05471	1,2-Dibromoethane	106-93-4	N.D.	0.022	mg/kg	21.08
05472	Chlorobenzene	108-90-7	N.D.	0.022	mg/kg	21.08
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.022	mg/kg	21.08
05474	Ethylbenzene	100-41-4	N.D.	0.022	mg/kg	21.08
05475	m+p-Xylene	1330-20-7	N.D.	0.022	mg/kg	21.08
05476	o-Xylene	95-47-6	N.D.	0.022	mg/kg	21.08
05477	Styrene	100-42-5	N.D.	0.022	mg/kg	21.08
05478	Bromoform	75-25-2	N.D.	0.022	mg/kg	21.08
05479	Isopropylbenzene	98-82-8	N.D.	0.022	mg/kg	21.08
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.022	mg/kg	21.08
05481	Bromobenzene	108-86-1	N.D.	0.022	mg/kg	21.08
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.022	mg/kg	21.08
05483	n-Propylbenzene	103-65-1	N.D.	0.022	mg/kg	21.08
05484	2-Chlorotoluene	95-49-8	N.D.	0.022	mg/kg	21.08
05485	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.022	mg/kg	21.08
05486	4-Chlorotoluene	106-43-4	N.D.	0.022	mg/kg	21.08
05487	tert-Butylbenzene	98-06-6	N.D.	0.022	mg/kg	21.08
05488	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.022	mg/kg	21.08
05489	sec-Butylbenzene	135-98-8	N.D.	0.022	mg/kg	21.08
05490	p-Isopropyltoluene	99-87-6	N.D.	0.022	mg/kg	21.08

Lancaster Laboratories Sample No. SW 5120123

SB-5 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 10:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:57
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB005 SDG#: ALK55-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.022	mg/kg	21.08
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.022	mg/kg	21.08
05493	n-Butylbenzene	104-51-8	N.D.	0.022	mg/kg	21.08
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.022	mg/kg	21.08
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.045	mg/kg	21.08
05496	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.022	mg/kg	21.08
05497	Hexachlorobutadiene	87-68-3	N.D.	0.045	mg/kg	21.08
05498	Naphthalene	91-20-3	N.D.	0.022	mg/kg	21.08
05499	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.022	mg/kg	21.08

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/07/2007 09:11	Linda C Pape	242.91
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/10/2007 04:54	Heather E Williams	5
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 11:42	Stephanie A Selis	21.08
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 11:42	Stephanie A Selis	21.08
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 10:00	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 10:00	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5120124

SB-6 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 10:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB006 SDG#: ALK55-06*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	3.0	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	45.	16.	mg/kg	764.53
	Due to excessive foaming of the sample, normal reporting limits were not attained.					
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	91.	8.2	mg/kg	2
01740	C25-C36 RRO	n.a.	230.	8.2	mg/kg	2
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.056	mg/kg	109.46
02017	di-Isopropyl ether	108-20-3	N.D.	0.11	mg/kg	109.46
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.11	mg/kg	109.46
02019	t-Amyl methyl ether	994-05-8	N.D.	0.11	mg/kg	109.46
02020	t-Butyl alcohol	75-65-0	N.D.	2.3	mg/kg	109.46
06089	Ethanol	64-17-5	N.D.	11.	mg/kg	109.46
06293	Acetone	67-64-1	N.D.	0.79	mg/kg	109.46
06294	Carbon Disulfide	75-15-0	N.D.	0.11	mg/kg	109.46
06296	2-Butanone	78-93-3	N.D.	0.45	mg/kg	109.46
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.11	mg/kg	109.46
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.11	mg/kg	109.46
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.34	mg/kg	109.46
06300	2-Hexanone	591-78-6	N.D.	0.34	mg/kg	109.46
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.23	mg/kg	109.46
08199	Freon 113	76-13-1	N.D.	0.23	mg/kg	109.46
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.23	mg/kg	109.46
05444	Chloromethane	74-87-3	N.D.	0.23	mg/kg	109.46
05445	Vinyl Chloride	75-01-4	N.D.	0.11	mg/kg	109.46
05446	Bromomethane	74-83-9	N.D.	0.23	mg/kg	109.46
05447	Chloroethane	75-00-3	N.D.	0.23	mg/kg	109.46
05448	Trichlorofluoromethane	75-69-4	N.D.	0.23	mg/kg	109.46

Lancaster Laboratories Sample No. SW 5120124

SB-6 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 10:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB006 SDG#: ALK55-06*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05449	1,1-Dichloroethene	75-35-4	N.D.	0.11	mg/kg	109.46
05450	Methylene Chloride	75-09-2	N.D.	0.23	mg/kg	109.46
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.11	mg/kg	109.46
05452	1,1-Dichloroethane	75-34-3	N.D.	0.11	mg/kg	109.46
05453	2,2-Dichloropropane	594-20-7	N.D.	0.11	mg/kg	109.46
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.11	mg/kg	109.46
05455	Chloroform	67-66-3	N.D.	0.11	mg/kg	109.46
05456	Bromochloromethane	74-97-5	N.D.	0.11	mg/kg	109.46
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.11	mg/kg	109.46
05458	Carbon Tetrachloride	56-23-5	N.D.	0.11	mg/kg	109.46
05459	1,1-Dichloropropene	563-58-6	N.D.	0.11	mg/kg	109.46
05460	Benzene	71-43-2	N.D.	0.056	mg/kg	109.46
05461	1,2-Dichloroethane	107-06-2	N.D.	0.11	mg/kg	109.46
05462	Trichloroethene	79-01-6	N.D.	0.11	mg/kg	109.46
05463	1,2-Dichloropropane	78-87-5	N.D.	0.11	mg/kg	109.46
05464	Dibromomethane	74-95-3	N.D.	0.11	mg/kg	109.46
05465	Bromodichloromethane	75-27-4	N.D.	0.11	mg/kg	109.46
05466	Toluene	108-88-3	0.12	0.11	mg/kg	109.46
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.11	mg/kg	109.46
05468	Tetrachloroethene	127-18-4	N.D.	0.11	mg/kg	109.46
05469	1,3-Dichloropropane	142-28-9	N.D.	0.11	mg/kg	109.46
05470	Dibromochloromethane	124-48-1	N.D.	0.11	mg/kg	109.46
05471	1,2-Dibromoethane	106-93-4	N.D.	0.11	mg/kg	109.46
05472	Chlorobenzene	108-90-7	N.D.	0.11	mg/kg	109.46
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.11	mg/kg	109.46
05474	Ethylbenzene	100-41-4	N.D.	0.11	mg/kg	109.46
05475	m+p-Xylene	1330-20-7	0.12	0.11	mg/kg	109.46
05476	o-Xylene	95-47-6	N.D.	0.11	mg/kg	109.46
05477	Styrene	100-42-5	N.D.	0.11	mg/kg	109.46
05478	Bromoform	75-25-2	N.D.	0.11	mg/kg	109.46
05479	Isopropylbenzene	98-82-8	N.D.	0.11	mg/kg	109.46
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.11	mg/kg	109.46
05481	Bromobenzene	108-86-1	N.D.	0.11	mg/kg	109.46
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.11	mg/kg	109.46
05483	n-Propylbenzene	103-65-1	N.D.	0.11	mg/kg	109.46
05484	2-Chlorotoluene	95-49-8	N.D.	0.11	mg/kg	109.46
05485	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.11	mg/kg	109.46
05486	4-Chlorotoluene	106-43-4	N.D.	0.11	mg/kg	109.46
05487	tert-Butylbenzene	98-06-6	N.D.	0.11	mg/kg	109.46
05488	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.11	mg/kg	109.46
05489	sec-Butylbenzene	135-98-8	N.D.	0.11	mg/kg	109.46
05490	p-Isopropyltoluene	99-87-6	N.D.	0.11	mg/kg	109.46

Lancaster Laboratories Sample No. SW 5120124

SB-6 Grab Soil Sample
Facility# 306456
328.5 Illinois St-Fairbanks, AK
Collected:07/31/2007 10:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB006 SDG#: ALK55-06*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.11	mg/kg	109.46
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.11	mg/kg	109.46
05493	n-Butylbenzene	104-51-8	N.D.	0.11	mg/kg	109.46
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.11	mg/kg	109.46
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.23	mg/kg	109.46
05496	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.11	mg/kg	109.46
05497	Hexachlorobutadiene	87-68-3	N.D.	0.23	mg/kg	109.46
05498	Naphthalene	91-20-3	N.D.	0.11	mg/kg	109.46
05499	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.11	mg/kg	109.46

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/07/2007 10:56	Linda C Pape	764.53
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/13/2007 19:44	Heather E Williams	2
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 12:05	Stephanie A Selis	109.46
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 12:05	Stephanie A Selis	109.46
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 10:30	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 10:30	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1049988
Reported: 08/15/07 at 08:58 AM

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	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07218A02A	Sample number(s): 5120119,5120123-5120124							
Alaska AK101 GRO (soils)	N.D.	0.5	mg/kg	91	94	60-120	0	20
Batch number: 07218A02B	Sample number(s): 5120120-5120122							
Alaska AK101 GRO (soils)	N.D.	0.5	mg/kg	91	94	60-120	0	20
Batch number: 07219820005A	Sample number(s): 5120119-5120120							
Moisture				100		99-101		
Batch number: 07219820005B	Sample number(s): 5120121-5120124							
Moisture				100		99-101		
Batch number: 072200010A	Sample number(s): 5120119-5120124							
C10-<C25 DRO	N.D.	4.0	mg/kg	95	92	75-125	3	50
C25-C36 RRO	N.D.	4.0	mg/kg	105	99	75-125	6	50
Batch number: R072201AB	Sample number(s): 5120119-5120124							
Methyl Tertiary Butyl Ether	N.D.	0.025	mg/kg	100	101	72-117	1	30
di-Isopropyl ether	N.D.	0.050	mg/kg	91	96	72-120	6	30
Ethyl t-butyl ether	N.D.	0.050	mg/kg	94	98	72-115	4	30
t-Amyl methyl ether	N.D.	0.050	mg/kg	95	99	73-116	4	30
t-Butyl alcohol	N.D.	1.0	mg/kg	90	92	52-153	2	30
Dichlorodifluoromethane	N.D.	0.10	mg/kg	51	64	28-134	22	30
Chloromethane	N.D.	0.10	mg/kg	81	89	58-123	9	30
Vinyl Chloride	N.D.	0.050	mg/kg	83	90	60-118	8	30
Bromomethane	N.D.	0.10	mg/kg	62	69	61-118	9	30
Chloroethane	N.D.	0.10	mg/kg	80	85	63-120	6	30
Trichlorofluoromethane	N.D.	0.10	mg/kg	81	84	58-125	4	30
1,1-Dichloroethene	N.D.	0.050	mg/kg	108	111	74-115	3	30
Methylene Chloride	N.D.	0.10	mg/kg	99	107	75-120	8	30
trans-1,2-Dichloroethene	N.D.	0.050	mg/kg	99	106	77-113	6	30
1,1-Dichloroethane	N.D.	0.050	mg/kg	100	106	82-116	5	30
2,2-Dichloropropane	N.D.	0.050	mg/kg	94	99	72-123	5	30
cis-1,2-Dichloroethene	N.D.	0.050	mg/kg	99	103	84-113	4	30
Chloroform	N.D.	0.050	mg/kg	100	104	81-117	4	30
Bromochloromethane	N.D.	0.050	mg/kg	98	103	75-121	5	30
1,1,1-Trichloroethane	N.D.	0.050	mg/kg	98	103	74-127	6	30
Carbon Tetrachloride	N.D.	0.050	mg/kg	96	100	76-122	4	30
1,1-Dichloropropene	N.D.	0.050	mg/kg	99	105	75-121	6	30
Benzene	N.D.	0.025	mg/kg	100	106	84-115	6	30
1,2-Dichloroethane	N.D.	0.050	mg/kg	99	105	76-126	6	30
Trichloroethene	N.D.	0.050	mg/kg	101	107	81-114	5	30
1,2-Dichloropropane	N.D.	0.050	mg/kg	98	103	78-119	5	30
Dibromomethane	N.D.	0.050	mg/kg	96	99	79-118	4	30
Bromodichloromethane	N.D.	0.050	mg/kg	96	99	77-116	3	30
Toluene	N.D.	0.050	mg/kg	100	106	81-116	6	30
1,1,2-Trichloroethane	N.D.	0.050	mg/kg	101	103	81-112	2	30

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049988
Reported: 08/15/07 at 08:58 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tetrachloroethene	N.D.	0.050	mg/kg	97	103	70-117	6	30
1,3-Dichloropropane	N.D.	0.050	mg/kg	97	100	80-115	4	30
Dibromochloromethane	N.D.	0.050	mg/kg	95	100	80-113	5	30
1,2-Dibromoethane	N.D.	0.050	mg/kg	98	102	77-114	3	30
Chlorobenzene	N.D.	0.050	mg/kg	99	105	81-112	6	30
1,1,1,2-Tetrachloroethane	N.D.	0.050	mg/kg	95	101	78-115	6	30
Ethylbenzene	N.D.	0.050	mg/kg	99	105	82-115	6	30
m+p-Xylene	N.D.	0.050	mg/kg	98	102	82-117	4	30
o-Xylene	N.D.	0.050	mg/kg	97	103	82-117	6	30
Styrene	N.D.	0.050	mg/kg	96	103	79-108	6	30
Bromoform	N.D.	0.050	mg/kg	89	93	63-120	5	30
Isopropylbenzene	N.D.	0.050	mg/kg	96	102	82-110	6	30
1,1,2,2-Tetrachloroethane	N.D.	0.050	mg/kg	98	106	64-121	7	30
Bromobenzene	N.D.	0.050	mg/kg	97	105	77-113	8	30
1,2,3-Trichloropropane	N.D.	0.050	mg/kg	97	104	69-119	7	30
n-Propylbenzene	N.D.	0.050	mg/kg	100	108	76-122	8	30
2-Chlorotoluene	N.D.	0.050	mg/kg	98	108	73-114	10	30
1,3,5-Trimethylbenzene	N.D.	0.050	mg/kg	98	105	74-112	6	30
4-Chlorotoluene	N.D.	0.050	mg/kg	99	105	75-110	5	30
tert-Butylbenzene	N.D.	0.050	mg/kg	95	102	72-113	7	30
1,2,4-Trimethylbenzene	N.D.	0.050	mg/kg	100	106	74-117	6	30
sec-Butylbenzene	N.D.	0.050	mg/kg	98	107	72-112	8	30
p-Isopropyltoluene	N.D.	0.050	mg/kg	96	103	72-113	8	30
1,3-Dichlorobenzene	N.D.	0.050	mg/kg	95	103	76-112	8	30
1,4-Dichlorobenzene	N.D.	0.050	mg/kg	97	104	78-108	7	30
n-Butylbenzene	N.D.	0.050	mg/kg	94	105	68-116	11	30
1,2-Dichlorobenzene	N.D.	0.050	mg/kg	96	103	81-109	7	30
1,2-Dibromo-3-chloropropane	N.D.	0.10	mg/kg	93	92	49-127	1	30
1,2,4-Trichlorobenzene	N.D.	0.050	mg/kg	96	100	60-116	4	30
Hexachlorobutadiene	N.D.	0.10	mg/kg	82	89	57-122	9	30
Naphthalene	N.D.	0.050	mg/kg	91	94	52-121	4	30
1,2,3-Trichlorobenzene	N.D.	0.050	mg/kg	89	94	63-120	5	30
Ethanol	7.6	5.0	mg/kg	90	80	48-149	12	30
Acetone	N.D.	0.35	mg/kg	54	61	26-198	12	30
Carbon Disulfide	N.D.	0.050	mg/kg	94	99	69-109	4	30
2-Butanone	N.D.	0.20	mg/kg	61	60	45-154	2	30
trans-1,3-Dichloropropene	N.D.	0.050	mg/kg	93	98	79-112	5	30
cis-1,3-Dichloropropene	N.D.	0.050	mg/kg	95	103	80-111	8	30
4-Methyl-2-pentanone	N.D.	0.15	mg/kg	87	89	51-141	3	30
2-Hexanone	N.D.	0.15	mg/kg	71	72	38-154	1	30
2-Chloroethyl Vinyl Ether	N.D.	0.10	mg/kg	90	93	26-148	3	30
Freon 113	N.D.	0.10	mg/kg	87	92	62-112	6	30

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 RPD Max
Batch number: 07219820005A	Sample number(s): 5120119-5120120					BKG: P119725			
Moisture						12.8	13.4	5	15

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049988
Reported: 08/15/07 at 08:58 AM

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 RPD Max
Batch number: 07219820005B	Sample number(s): 5120121-5120124					BKG: P121246			
Moisture						10.5	10.4	2	15
Batch number: 072200010A	Sample number(s): 5120119-5120124 UNSPK: 5120119								
C10-<C25 DRO	116	143*	60-140	15	50				
C25-C36 RRO	120	152*	60-140	17	50				

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: Alaska AK101 GRO (soils)
Batch number: 07218A02A

	Trifluorotoluene-F
5120119	18*
5120123	5*
5120124	0*
Blank	93
LCS	96
LCSD	95
Limits:	60-120

Analysis Name: Alaska AK101 GRO (soils)
Batch number: 07218A02B

	Trifluorotoluene-F
5120120	37*
5120121	96
5120122	10*
Blank	97
LCS	96
LCSD	95
Limits:	60-120

Analysis Name: TPH-DRO/RRO (AK)
Batch number: 072200010A

	Orthoterphenyl	n-Triacontane-d62
5120119	95	94
5120120	94	108
5120121	111	203*
5120122	205*	165*
5120123	71	86
5120124	84	102
Blank	96	106
LCS	71	99

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049988
Reported: 08/15/07 at 08:58 AM

Surrogate Quality Control

LCSD	69	100
MS	71	93
MSD	77	100
Limits:	50-150	50-150

Analysis Name: EPA SW846/8260 (soil)
Batch number: R072201AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5120119	80	78	80	78
5120120	192*	188*	188*	208*
5120121	323*	316*	315*	327*
5120122	146*	144*	147*	180*
5120123	232*	228*	230*	229*
5120124	293*	283*	294*	317*
Blank	98	98	97	92
LCS	94	93	95	96
LCSD	98	98	99	101
Limits:	71-114	70-109	70-123	70-111

*- Outside of specification
(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.

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 11964 For Lancaster Laboratories use only Sample #: 5120119-24 SCR#: 244307 46732 grp 1049988

Facility #: Former Unocal #306456, Chevron #1001430, Texaco #211815
Site Address: 328.5 Illinois St, 418 Illinois St 410 Driveway St
Chevron PM: Stacy Frerichs Lead Consultant: Arcadis BBL
Consultant/Office: Arcadis BBL
Consultant Prj. Mgr.: Rebecca Andresen
Consultant Phone #: 206 325 5254 Fax #:
Sampler: Jason Luckett
Service Order #: 001/5014445 ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	___ Oxygenates	Lead 7420 ☐ 7421 ☐	VOCs 8260B	GRO (AK101)	DRO + RRO AK102, AK103				
SB-1	So.1		2.0	07/31/07	0800		X		1							1	1	1				
SB-2					0830		X		1							1	1	1				
SB-3					0900		X		1							1	1	1				
SB-4					0930		X		1							1	1	1				
SB-5					1000		X		1							1	1	1				
SB-6					1030		X		1							1	1	1				
SB-7					1100		X		1							1	1	1				
SB-8					1130		X		1							1	1	1				
SB-9					1200		X		1							1	1	1				
SB-10					1230		X		1							1	1	1				
SB-11	↓		↓	↓	1300		X		1							1	1	1				

Comments / Remarks
high PID readings
NWRTB:
030456-0-AIL
1001430-0-AIL
G211815-0-AIL

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	7/30	13:20			
[signature]	8/1/07	0800			

Relinquished by Commercial Carrier: UPS FedEx Other
Temperature Upon Receipt 3.2 C°

Received by: [signature] 8/2/07 0925
Custody Seals Intact? Yes No

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	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 limit of quantitation, 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.

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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1049989. Samples arrived at the laboratory on Thursday, August 02, 2007. The PO# for this group is 0015014445 and the release number is HARTUNG-FRERICH.

Client Description	Lancaster Labs Number
SB-7 Grab Soil Sample	5120125
SB-8 Grab Soil Sample	5120126

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC COPY TO	Blasland, Bouck & Lee	Attn: Rebecca Andresen
ELECTRONIC COPY TO	Arcadis BBL	Attn: Vanessa Varbel
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Rebecca J Shettel at (717) 656-2300

Respectfully Submitted,

Susan M. Goshert
Group Leader

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. SW 5120125

SB-7 Grab Soil Sample
Facility# 1001430
Illinois & Charles Sts-Fairbanks, AK
Collected:07/31/2007 11:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB007 SDG#: ALK56-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	7.4	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	24.	10.	mg/kg	478.38
	Due to excessive foaming of the sample, normal reporting limits were not attained.					
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	400.	110.	mg/kg	25
01740	C25-C36 RRO	n.a.	2,400.	110.	mg/kg	25
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.039	mg/kg	72.63
02017	di-Isopropyl ether	108-20-3	N.D.	0.078	mg/kg	72.63
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.078	mg/kg	72.63
02019	t-Amyl methyl ether	994-05-8	N.D.	0.078	mg/kg	72.63
02020	t-Butyl alcohol	75-65-0	N.D.	1.6	mg/kg	72.63
06089	Ethanol	64-17-5	N.D.	7.8	mg/kg	72.63
06293	Acetone	67-64-1	N.D.	0.55	mg/kg	72.63
06294	Carbon Disulfide	75-15-0	N.D.	0.078	mg/kg	72.63
06296	2-Butanone	78-93-3	N.D.	0.31	mg/kg	72.63
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.078	mg/kg	72.63
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.078	mg/kg	72.63
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.24	mg/kg	72.63
06300	2-Hexanone	591-78-6	N.D.	0.24	mg/kg	72.63
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.16	mg/kg	72.63
08199	Freon 113	76-13-1	N.D.	0.16	mg/kg	72.63
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.16	mg/kg	72.63
05444	Chloromethane	74-87-3	N.D.	0.16	mg/kg	72.63
05445	Vinyl Chloride	75-01-4	N.D.	0.078	mg/kg	72.63
05446	Bromomethane	74-83-9	N.D.	0.16	mg/kg	72.63
05447	Chloroethane	75-00-3	N.D.	0.16	mg/kg	72.63
05448	Trichlorofluoromethane	75-69-4	N.D.	0.16	mg/kg	72.63

Lancaster Laboratories Sample No. SW 5120125

SB-7 Grab Soil Sample
Facility# 1001430
Illinois & Charles Sts-Fairbanks, AK
Collected:07/31/2007 11:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB007 SDG#: ALK56-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05449	1,1-Dichloroethene	75-35-4	N.D.	0.078	mg/kg	72.63
05450	Methylene Chloride	75-09-2	N.D.	0.16	mg/kg	72.63
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.078	mg/kg	72.63
05452	1,1-Dichloroethane	75-34-3	N.D.	0.078	mg/kg	72.63
05453	2,2-Dichloropropane	594-20-7	N.D.	0.078	mg/kg	72.63
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.078	mg/kg	72.63
05455	Chloroform	67-66-3	N.D.	0.078	mg/kg	72.63
05456	Bromochloromethane	74-97-5	N.D.	0.078	mg/kg	72.63
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.078	mg/kg	72.63
05458	Carbon Tetrachloride	56-23-5	N.D.	0.078	mg/kg	72.63
05459	1,1-Dichloropropene	563-58-6	N.D.	0.078	mg/kg	72.63
05460	Benzene	71-43-2	0.061	0.039	mg/kg	72.63
05461	1,2-Dichloroethane	107-06-2	N.D.	0.078	mg/kg	72.63
05462	Trichloroethene	79-01-6	N.D.	0.078	mg/kg	72.63
05463	1,2-Dichloropropane	78-87-5	N.D.	0.078	mg/kg	72.63
05464	Dibromomethane	74-95-3	N.D.	0.078	mg/kg	72.63
05465	Bromodichloromethane	75-27-4	N.D.	0.078	mg/kg	72.63
05466	Toluene	108-88-3	0.18	0.078	mg/kg	72.63
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.078	mg/kg	72.63
05468	Tetrachloroethene	127-18-4	N.D.	0.078	mg/kg	72.63
05469	1,3-Dichloropropane	142-28-9	N.D.	0.078	mg/kg	72.63
05470	Dibromochloromethane	124-48-1	N.D.	0.078	mg/kg	72.63
05471	1,2-Dibromoethane	106-93-4	N.D.	0.078	mg/kg	72.63
05472	Chlorobenzene	108-90-7	N.D.	0.078	mg/kg	72.63
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.078	mg/kg	72.63
05474	Ethylbenzene	100-41-4	N.D.	0.078	mg/kg	72.63
05475	m+p-Xylene	1330-20-7	0.38	0.078	mg/kg	72.63
05476	o-Xylene	95-47-6	0.37	0.078	mg/kg	72.63
05477	Styrene	100-42-5	N.D.	0.078	mg/kg	72.63
05478	Bromoform	75-25-2	N.D.	0.078	mg/kg	72.63
05479	Isopropylbenzene	98-82-8	N.D.	0.078	mg/kg	72.63
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.078	mg/kg	72.63
05481	Bromobenzene	108-86-1	N.D.	0.078	mg/kg	72.63
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.078	mg/kg	72.63
05483	n-Propylbenzene	103-65-1	N.D.	0.078	mg/kg	72.63
05484	2-Chlorotoluene	95-49-8	N.D.	0.078	mg/kg	72.63
05485	1,3,5-Trimethylbenzene	108-67-8	0.39	0.078	mg/kg	72.63
05486	4-Chlorotoluene	106-43-4	N.D.	0.078	mg/kg	72.63
05487	tert-Butylbenzene	98-06-6	N.D.	0.078	mg/kg	72.63
05488	1,2,4-Trimethylbenzene	95-63-6	0.52	0.078	mg/kg	72.63
05489	sec-Butylbenzene	135-98-8	N.D.	0.078	mg/kg	72.63
05490	p-Isopropyltoluene	99-87-6	N.D.	0.078	mg/kg	72.63

Lancaster Laboratories Sample No. SW 5120125

SB-7 Grab Soil Sample
Facility# 1001430
Illinois & Charles Sts-Fairbanks, AK
Collected:07/31/2007 11:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB007 SDG#: ALK56-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.078	mg/kg	72.63
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.078	mg/kg	72.63
05493	n-Butylbenzene	104-51-8	N.D.	0.078	mg/kg	72.63
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.078	mg/kg	72.63
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.16	mg/kg	72.63
05496	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.078	mg/kg	72.63
05497	Hexachlorobutadiene	87-68-3	N.D.	0.16	mg/kg	72.63
05498	Naphthalene	91-20-3	0.58	0.078	mg/kg	72.63
05499	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.078	mg/kg	72.63

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/07/2007 12:08	Linda C Pape	478.38
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/13/2007 21:24	Heather E Williams	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 12:28	Stephanie A Selis	72.63
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 12:28	Stephanie A Selis	72.63
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 11:00	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 11:00	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5120126

SB-8 Grab Soil Sample
Facility# 1001430
Illinois & Charles Sts-Fairbanks, AK
Collected:07/31/2007 11:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB008 SDG#: ALK56-02*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	3.5	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01451	Alaska AK101 GRO (soils)					
01452	Alaska AK101 GRO (soils)	n.a.	9.8	0.7	mg/kg	32.81
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	42.	4.1	mg/kg	1
01740	C25-C36 RRO	n.a.	8.1	4.1	mg/kg	1
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.036	mg/kg	69.72
02017	di-Isopropyl ether	108-20-3	N.D.	0.072	mg/kg	69.72
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.072	mg/kg	69.72
02019	t-Amyl methyl ether	994-05-8	N.D.	0.072	mg/kg	69.72
02020	t-Butyl alcohol	75-65-0	N.D.	1.4	mg/kg	69.72
06089	Ethanol	64-17-5	N.D.	7.2	mg/kg	69.72
06293	Acetone	67-64-1	N.D.	0.51	mg/kg	69.72
06294	Carbon Disulfide	75-15-0	N.D.	0.072	mg/kg	69.72
06296	2-Butanone	78-93-3	N.D.	0.29	mg/kg	69.72
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.072	mg/kg	69.72
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.072	mg/kg	69.72
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.22	mg/kg	69.72
06300	2-Hexanone	591-78-6	N.D.	0.22	mg/kg	69.72
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.14	mg/kg	69.72
08199	Freon 113	76-13-1	N.D.	0.14	mg/kg	69.72
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.14	mg/kg	69.72
05444	Chloromethane	74-87-3	N.D.	0.14	mg/kg	69.72
05445	Vinyl Chloride	75-01-4	N.D.	0.072	mg/kg	69.72
05446	Bromomethane	74-83-9	N.D.	0.14	mg/kg	69.72
05447	Chloroethane	75-00-3	N.D.	0.14	mg/kg	69.72
05448	Trichlorofluoromethane	75-69-4	N.D.	0.14	mg/kg	69.72
05449	1,1-Dichloroethene	75-35-4	N.D.	0.072	mg/kg	69.72
05450	Methylene Chloride	75-09-2	N.D.	0.14	mg/kg	69.72

Lancaster Laboratories Sample No. SW 5120126

SB-8 Grab Soil Sample
Facility# 1001430
Illinois & Charles Sts-Fairbanks, AK
Collected:07/31/2007 11:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB008 SDG#: ALK56-02*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.072	mg/kg	69.72
05452	1,1-Dichloroethane	75-34-3	N.D.	0.072	mg/kg	69.72
05453	2,2-Dichloropropane	594-20-7	N.D.	0.072	mg/kg	69.72
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.072	mg/kg	69.72
05455	Chloroform	67-66-3	N.D.	0.072	mg/kg	69.72
05456	Bromochloromethane	74-97-5	N.D.	0.072	mg/kg	69.72
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.072	mg/kg	69.72
05458	Carbon Tetrachloride	56-23-5	N.D.	0.072	mg/kg	69.72
05459	1,1-Dichloropropene	563-58-6	N.D.	0.072	mg/kg	69.72
05460	Benzene	71-43-2	N.D.	0.036	mg/kg	69.72
05461	1,2-Dichloroethane	107-06-2	N.D.	0.072	mg/kg	69.72
05462	Trichloroethene	79-01-6	N.D.	0.072	mg/kg	69.72
05463	1,2-Dichloropropane	78-87-5	N.D.	0.072	mg/kg	69.72
05464	Dibromomethane	74-95-3	N.D.	0.072	mg/kg	69.72
05465	Bromodichloromethane	75-27-4	N.D.	0.072	mg/kg	69.72
05466	Toluene	108-88-3	N.D.	0.072	mg/kg	69.72
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.072	mg/kg	69.72
05468	Tetrachloroethene	127-18-4	N.D.	0.072	mg/kg	69.72
05469	1,3-Dichloropropane	142-28-9	N.D.	0.072	mg/kg	69.72
05470	Dibromochloromethane	124-48-1	N.D.	0.072	mg/kg	69.72
05471	1,2-Dibromoethane	106-93-4	N.D.	0.072	mg/kg	69.72
05472	Chlorobenzene	108-90-7	N.D.	0.072	mg/kg	69.72
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.072	mg/kg	69.72
05474	Ethylbenzene	100-41-4	N.D.	0.072	mg/kg	69.72
05475	m+p-Xylene	1330-20-7	N.D.	0.072	mg/kg	69.72
05476	o-Xylene	95-47-6	N.D.	0.072	mg/kg	69.72
05477	Styrene	100-42-5	N.D.	0.072	mg/kg	69.72
05478	Bromoform	75-25-2	N.D.	0.072	mg/kg	69.72
05479	Isopropylbenzene	98-82-8	N.D.	0.072	mg/kg	69.72
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.072	mg/kg	69.72
05481	Bromobenzene	108-86-1	N.D.	0.072	mg/kg	69.72
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.072	mg/kg	69.72
05483	n-Propylbenzene	103-65-1	N.D.	0.072	mg/kg	69.72
05484	2-Chlorotoluene	95-49-8	N.D.	0.072	mg/kg	69.72
05485	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.072	mg/kg	69.72
05486	4-Chlorotoluene	106-43-4	N.D.	0.072	mg/kg	69.72
05487	tert-Butylbenzene	98-06-6	N.D.	0.072	mg/kg	69.72
05488	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.072	mg/kg	69.72
05489	sec-Butylbenzene	135-98-8	N.D.	0.072	mg/kg	69.72
05490	p-Isopropyltoluene	99-87-6	N.D.	0.072	mg/kg	69.72
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.072	mg/kg	69.72
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.072	mg/kg	69.72

Lancaster Laboratories Sample No. SW 5120126

SB-8 Grab Soil Sample
Facility# 1001430
Illinois & Charles Sts-Fairbanks, AK
Collected:07/31/2007 11:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB008 SDG#: ALK56-02*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05493	n-Butylbenzene	104-51-8	N.D.	0.072	mg/kg	69.72
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.072	mg/kg	69.72
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.14	mg/kg	69.72
05496	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.072	mg/kg	69.72
05497	Hexachlorobutadiene	87-68-3	N.D.	0.14	mg/kg	69.72
05498	Naphthalene	91-20-3	N.D.	0.072	mg/kg	69.72
05499	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.072	mg/kg	69.72

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01451	Alaska AK101 GRO (soils)	AK 101	1	08/08/2007 02:20	Linda C Pape	32.81
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/10/2007 02:05	Heather E Williams	1
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 12:51	Stephanie A Selis	69.72
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 12:51	Stephanie A Selis	69.72
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 11:30	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 11:30	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1049989
Reported: 08/15/07 at 08:58 AM

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	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07218A02A	Sample number(s): 5120125							
Alaska AK101 GRO (soils)	N.D.	0.5	mg/kg	91	94	60-120	0	20
Batch number: 07218A02B	Sample number(s): 5120126							
Alaska AK101 GRO (soils)	N.D.	0.5	mg/kg	91	94	60-120	0	20
Batch number: 07219820005B	Sample number(s): 5120125-5120126							
Moisture				100		99-101		
Batch number: 072200010A	Sample number(s): 5120125-5120126							
C10-<C25 DRO	N.D.	4.0	mg/kg	95	92	75-125	3	50
C25-C36 RRO	N.D.	4.0	mg/kg	105	99	75-125	6	50
Batch number: R072201AB	Sample number(s): 5120125-5120126							
Methyl Tertiary Butyl Ether	N.D.	0.025	mg/kg	100	101	72-117	1	30
di-Isopropyl ether	N.D.	0.050	mg/kg	91	96	72-120	6	30
Ethyl t-butyl ether	N.D.	0.050	mg/kg	94	98	72-115	4	30
t-Amyl methyl ether	N.D.	0.050	mg/kg	95	99	73-116	4	30
t-Butyl alcohol	N.D.	1.0	mg/kg	90	92	52-153	2	30
Dichlorodifluoromethane	N.D.	0.10	mg/kg	51	64	28-134	22	30
Chloromethane	N.D.	0.10	mg/kg	81	89	58-123	9	30
Vinyl Chloride	N.D.	0.050	mg/kg	83	90	60-118	8	30
Bromomethane	N.D.	0.10	mg/kg	62	69	61-118	9	30
Chloroethane	N.D.	0.10	mg/kg	80	85	63-120	6	30
Trichlorofluoromethane	N.D.	0.10	mg/kg	81	84	58-125	4	30
1,1-Dichloroethene	N.D.	0.050	mg/kg	108	111	74-115	3	30
Methylene Chloride	N.D.	0.10	mg/kg	99	107	75-120	8	30
trans-1,2-Dichloroethene	N.D.	0.050	mg/kg	99	106	77-113	6	30
1,1-Dichloroethane	N.D.	0.050	mg/kg	100	106	82-116	5	30
2,2-Dichloropropane	N.D.	0.050	mg/kg	94	99	72-123	5	30
cis-1,2-Dichloroethene	N.D.	0.050	mg/kg	99	103	84-113	4	30
Chloroform	N.D.	0.050	mg/kg	100	104	81-117	4	30
Bromochloromethane	N.D.	0.050	mg/kg	98	103	75-121	5	30
1,1,1-Trichloroethane	N.D.	0.050	mg/kg	98	103	74-127	6	30
Carbon Tetrachloride	N.D.	0.050	mg/kg	96	100	76-122	4	30
1,1-Dichloropropene	N.D.	0.050	mg/kg	99	105	75-121	6	30
Benzene	N.D.	0.025	mg/kg	100	106	84-115	6	30
1,2-Dichloroethane	N.D.	0.050	mg/kg	99	105	76-126	6	30
Trichloroethene	N.D.	0.050	mg/kg	101	107	81-114	5	30
1,2-Dichloropropane	N.D.	0.050	mg/kg	98	103	78-119	5	30
Dibromomethane	N.D.	0.050	mg/kg	96	99	79-118	4	30
Bromodichloromethane	N.D.	0.050	mg/kg	96	99	77-116	3	30
Toluene	N.D.	0.050	mg/kg	100	106	81-116	6	30
1,1,2-Trichloroethane	N.D.	0.050	mg/kg	101	103	81-112	2	30
Tetrachloroethene	N.D.	0.050	mg/kg	97	103	70-117	6	30
1,3-Dichloropropane	N.D.	0.050	mg/kg	97	100	80-115	4	30
Dibromochloromethane	N.D.	0.050	mg/kg	95	100	80-113	5	30

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049989
Reported: 08/15/07 at 08:58 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dibromoethane	N.D.	0.050	mg/kg	98	102	77-114	3	30
Chlorobenzene	N.D.	0.050	mg/kg	99	105	81-112	6	30
1,1,1,2-Tetrachloroethane	N.D.	0.050	mg/kg	95	101	78-115	6	30
Ethylbenzene	N.D.	0.050	mg/kg	99	105	82-115	6	30
m+p-Xylene	N.D.	0.050	mg/kg	98	102	82-117	4	30
o-Xylene	N.D.	0.050	mg/kg	97	103	82-117	6	30
Styrene	N.D.	0.050	mg/kg	96	103	79-108	6	30
Bromoform	N.D.	0.050	mg/kg	89	93	63-120	5	30
Isopropylbenzene	N.D.	0.050	mg/kg	96	102	82-110	6	30
1,1,2,2-Tetrachloroethane	N.D.	0.050	mg/kg	98	106	64-121	7	30
Bromobenzene	N.D.	0.050	mg/kg	97	105	77-113	8	30
1,2,3-Trichloropropane	N.D.	0.050	mg/kg	97	104	69-119	7	30
n-Propylbenzene	N.D.	0.050	mg/kg	100	108	76-122	8	30
2-Chlorotoluene	N.D.	0.050	mg/kg	98	108	73-114	10	30
1,3,5-Trimethylbenzene	N.D.	0.050	mg/kg	98	105	74-112	6	30
4-Chlorotoluene	N.D.	0.050	mg/kg	99	105	75-110	5	30
tert-Butylbenzene	N.D.	0.050	mg/kg	95	102	72-113	7	30
1,2,4-Trimethylbenzene	N.D.	0.050	mg/kg	100	106	74-117	6	30
sec-Butylbenzene	N.D.	0.050	mg/kg	98	107	72-112	8	30
p-Isopropyltoluene	N.D.	0.050	mg/kg	96	103	72-113	8	30
1,3-Dichlorobenzene	N.D.	0.050	mg/kg	95	103	76-112	8	30
1,4-Dichlorobenzene	N.D.	0.050	mg/kg	97	104	78-108	7	30
n-Butylbenzene	N.D.	0.050	mg/kg	94	105	68-116	11	30
1,2-Dichlorobenzene	N.D.	0.050	mg/kg	96	103	81-109	7	30
1,2-Dibromo-3-chloropropane	N.D.	0.10	mg/kg	93	92	49-127	1	30
1,2,4-Trichlorobenzene	N.D.	0.050	mg/kg	96	100	60-116	4	30
Hexachlorobutadiene	N.D.	0.10	mg/kg	82	89	57-122	9	30
Naphthalene	N.D.	0.050	mg/kg	91	94	52-121	4	30
1,2,3-Trichlorobenzene	N.D.	0.050	mg/kg	89	94	63-120	5	30
Ethanol	7.6	5.0	mg/kg	90	80	48-149	12	30
Acetone	N.D.	0.35	mg/kg	54	61	26-198	12	30
Carbon Disulfide	N.D.	0.050	mg/kg	94	99	69-109	4	30
2-Butanone	N.D.	0.20	mg/kg	61	60	45-154	2	30
trans-1,3-Dichloropropene	N.D.	0.050	mg/kg	93	98	79-112	5	30
cis-1,3-Dichloropropene	N.D.	0.050	mg/kg	95	103	80-111	8	30
4-Methyl-2-pentanone	N.D.	0.15	mg/kg	87	89	51-141	3	30
2-Hexanone	N.D.	0.15	mg/kg	71	72	38-154	1	30
2-Chloroethyl Vinyl Ether	N.D.	0.10	mg/kg	90	93	26-148	3	30
Freon 113	N.D.	0.10	mg/kg	87	92	62-112	6	30

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 RPD Max
Batch number: 07219820005B	Sample number(s): 5120125-5120126					BKG: P121246			
Moisture						10.5	10.4	2	15
Batch number: 072200010A	Sample number(s): 5120125-5120126					UNSPK: P120119			
C10-<C25 DRO	116	143*	60-140	15	50				
C25-C36 RRO	120	152*	60-140	17	50				

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049989
Reported: 08/15/07 at 08:58 AM

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 RPD Max

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: Alaska AK101 GRO (soils)
Batch number: 07218A02A

	Trifluorotoluene-F
5120125	9*
Blank	93
LCS	96
LCSD	95
Limits:	60-120

Analysis Name: Alaska AK101 GRO (soils)
Batch number: 07218A02B

	Trifluorotoluene-F
5120126	1*
Blank	97
LCS	96
LCSD	95
Limits:	60-120

Analysis Name: TPH-DRO/RRO (AK)
Batch number: 072200010A

	Orthoterphenyl	n-Triacontane-d62
5120125	2*	113
5120126	91	110
Blank	96	106
LCS	71	99
LCSD	69	100
MS	71	93
MSD	77	100
Limits:	50-150	50-150

Analysis Name: EPA SW846/8260 (soil)
Batch number: R072201AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5120125	233*	228*	223*	222*
5120126	143*	140*	141*	141*
Blank	98	98	97	92
LCS	94	93	95	96

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049989
Reported: 08/15/07 at 08:58 AM

Surrogate Quality Control

LCSD	98	98	99	101
Limits:	71-114	70-109	70-123	70-111

*- Outside of specification
(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.

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 11964 For Lancaster Laboratories use only Sample #: 512012S-26 SCR#: 244307 46732 grp 1049989

Facility #: Former Unocal #306456, Chevron #1001430, Texaco #211815
Site Address: 328.5 Illinois St, 419 Illinois St 410 Driveway St
Chevron PM: Stacy Frerichs Lead Consultant: Arcadis BBL
Consultant/Office: Arcadis BBL
Consultant Prj. Mgr.: Rebecca Andresen
Consultant Phone #: 206 325 5254 Fax #:
Sampler: Jason Luckett
Service Order #: 001501444S ☐ Non SAR:

Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 ☐ 7421 ☐	VOCs 8260 B	GRO (AK101)	DRO + RRO AK102 AK103
SB-1	Soil		2.0	07/31/07	0800		X		1							1	1	1
SB-2					0830		X		1							1	1	1
SB-3					0900		X		1							1	1	1
SB-4					0930		X		1							1	1	1
SB-5					1000		X		1							1	1	1
SB-6					1030		X		1							1	1	1
SB-7					1100		X		1							1	1	1
SB-8					1130		X		1							1	1	1
SB-9					1200		X		1							1	1	1
SB-10					1230		X		1							1	1	1
SB-11					1300		X		1							1	1	1

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
high PID readings
NWRTB:
0306456-0-AIL
1001430-0-AIL
0211815-0-AIL

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	7/30	13:20			
[signature]	8/1/07	0800			

Relinquished by Commercial Carrier: UPS FedEx Other
Temperature Upon Receipt 3.2 C°

Received by: [signature] 8/2/07 0925
Custody Seals Intact? (Yes) No

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	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 limit of quantitation, 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.

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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.

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Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1049992. Samples arrived at the laboratory on Thursday, August 02, 2007. The PO# for this group is 0015014445 and the release number is HARTUNG-FRERICH.

Client Description	Lancaster Labs Number
SB-9 Grab Soil Sample	5120145
SB-10 Grab Soil Sample	5120146
SB-11 Grab Soil Sample	5120147
Trip Blank Water Sample	5120148

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC COPY TO	Arcadis BBL	Attn: Vanessa Varbel
ELECTRONIC COPY TO	Blasland, Bouck & Lee	Attn: Rebecca Andresen
1 COPY TO	Data Package Group	

Lancaster Laboratories

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

Analysis Report

Questions? Contact your Client Services Representative
Rebecca J Shettel at (717) 656-2300

Respectfully Submitted,

Susan M. Goshert
Group Leader

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. SW 5120145

SB-9 Grab Soil Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007 12:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB009 SDG#: ALK57-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01450	Alaska AK101 GRO (soils)	n.a.	1,300.	50.	mg/kg	2289.38
00111	Moisture	n.a.	7.9	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	7,400.	1,100.	mg/kg	250
01740	C25-C36 RRO	n.a.	N.D.	1,100.	mg/kg	250
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.035	mg/kg	65.21
02017	di-Isopropyl ether	108-20-3	N.D.	0.071	mg/kg	65.21
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.071	mg/kg	65.21
02019	t-Amyl methyl ether	994-05-8	N.D.	0.071	mg/kg	65.21
02020	t-Butyl alcohol	75-65-0	N.D.	1.4	mg/kg	65.21
06089	Ethanol	64-17-5	N.D.	7.1	mg/kg	65.21
06293	Acetone	67-64-1	N.D.	0.50	mg/kg	65.21
06294	Carbon Disulfide	75-15-0	N.D.	0.071	mg/kg	65.21
06296	2-Butanone	78-93-3	N.D.	0.28	mg/kg	65.21
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.071	mg/kg	65.21
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.071	mg/kg	65.21
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.21	mg/kg	65.21
06300	2-Hexanone	591-78-6	N.D.	0.21	mg/kg	65.21
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.14	mg/kg	65.21
08199	Freon 113	76-13-1	N.D.	0.14	mg/kg	65.21
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.14	mg/kg	65.21
05444	Chloromethane	74-87-3	N.D.	0.14	mg/kg	65.21
05445	Vinyl Chloride	75-01-4	N.D.	0.071	mg/kg	65.21
05446	Bromomethane	74-83-9	N.D.	0.14	mg/kg	65.21
05447	Chloroethane	75-00-3	N.D.	0.14	mg/kg	65.21
05448	Trichlorofluoromethane	75-69-4	N.D.	0.14	mg/kg	65.21
05449	1,1-Dichloroethene	75-35-4	N.D.	0.071	mg/kg	65.21
05450	Methylene Chloride	75-09-2	N.D.	0.14	mg/kg	65.21
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.071	mg/kg	65.21
05452	1,1-Dichloroethane	75-34-3	N.D.	0.071	mg/kg	65.21
05453	2,2-Dichloropropane	594-20-7	N.D.	0.071	mg/kg	65.21

Lancaster Laboratories Sample No. SW 5120145

SB-9 Grab Soil Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007 12:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB009 SDG#: ALK57-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.071	mg/kg	65.21
05455	Chloroform	67-66-3	N.D.	0.071	mg/kg	65.21
05456	Bromochloromethane	74-97-5	N.D.	0.071	mg/kg	65.21
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.071	mg/kg	65.21
05458	Carbon Tetrachloride	56-23-5	N.D.	0.071	mg/kg	65.21
05459	1,1-Dichloropropene	563-58-6	N.D.	0.071	mg/kg	65.21
05460	Benzene	71-43-2	0.15	0.035	mg/kg	65.21
05461	1,2-Dichloroethane	107-06-2	N.D.	0.071	mg/kg	65.21
05462	Trichloroethene	79-01-6	N.D.	0.071	mg/kg	65.21
05463	1,2-Dichloropropane	78-87-5	N.D.	0.071	mg/kg	65.21
05464	Dibromomethane	74-95-3	N.D.	0.071	mg/kg	65.21
05465	Bromodichloromethane	75-27-4	N.D.	0.071	mg/kg	65.21
05466	Toluene	108-88-3	0.64	0.071	mg/kg	65.21
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.071	mg/kg	65.21
05468	Tetrachloroethene	127-18-4	N.D.	0.071	mg/kg	65.21
05469	1,3-Dichloropropane	142-28-9	N.D.	0.071	mg/kg	65.21
05470	Dibromochloromethane	124-48-1	N.D.	0.071	mg/kg	65.21
05471	1,2-Dibromoethane	106-93-4	N.D.	0.071	mg/kg	65.21
05472	Chlorobenzene	108-90-7	N.D.	0.071	mg/kg	65.21
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.071	mg/kg	65.21
05474	Ethylbenzene	100-41-4	N.D.	0.071	mg/kg	65.21
05475	m+p-Xylene	1330-20-7	3.1	0.071	mg/kg	65.21
05476	o-Xylene	95-47-6	7.8	0.071	mg/kg	65.21
05477	Styrene	100-42-5	N.D.	0.071	mg/kg	65.21
05478	Bromoform	75-25-2	N.D.	0.071	mg/kg	65.21
05479	Isopropylbenzene	98-82-8	N.D.	0.071	mg/kg	65.21
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.071	mg/kg	65.21
05481	Bromobenzene	108-86-1	N.D.	0.071	mg/kg	65.21
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.071	mg/kg	65.21
05483	n-Propylbenzene	103-65-1	N.D.	0.071	mg/kg	65.21
05484	2-Chlorotoluene	95-49-8	N.D.	0.071	mg/kg	65.21
05485	1,3,5-Trimethylbenzene	108-67-8	8.3	0.071	mg/kg	65.21
05486	4-Chlorotoluene	106-43-4	N.D.	0.071	mg/kg	65.21
05487	tert-Butylbenzene	98-06-6	N.D.	0.071	mg/kg	65.21
05488	1,2,4-Trimethylbenzene	95-63-6	6.8	0.071	mg/kg	65.21
05489	sec-Butylbenzene	135-98-8	N.D.	0.071	mg/kg	65.21
05490	p-Isopropyltoluene	99-87-6	0.073	0.071	mg/kg	65.21
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.071	mg/kg	65.21
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.071	mg/kg	65.21
05493	n-Butylbenzene	104-51-8	N.D.	0.071	mg/kg	65.21
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.071	mg/kg	65.21
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.14	mg/kg	65.21

Lancaster Laboratories Sample No. SW 5120145

SB-9 Grab Soil Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007 12:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB009 SDG#: ALK57-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05496	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.071	mg/kg	65.21
05497	Hexachlorobutadiene	87-68-3	N.D.	0.14	mg/kg	65.21
05498	Naphthalene	91-20-3	2.7	0.071	mg/kg	65.21
05499	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.071	mg/kg	65.21

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01450	Alaska AK101 GRO (soils)	AK 101	1	08/07/2007 20:52	Linda C Pape	2289.38
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/13/2007 20:59	Heather E Williams	250
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 14:01	Stephanie A Selis	65.21
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 14:01	Stephanie A Selis	65.21
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 12:00	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 12:00	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 5120146

SB-10 Grab Soil Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007 12:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB010 SDG#: ALK57-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01450	Alaska AK101 GRO (soils)	n.a.	1,100.	40.	mg/kg	1865.37
00111	Moisture	n.a.	7.3	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	4,800.	860.	mg/kg	200
01740	C25-C36 RRO	n.a.	N.D.	860.	mg/kg	200
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.031	mg/kg	57.63
02017	di-Isopropyl ether	108-20-3	N.D.	0.062	mg/kg	57.63
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.062	mg/kg	57.63
02019	t-Amyl methyl ether	994-05-8	N.D.	0.062	mg/kg	57.63
02020	t-Butyl alcohol	75-65-0	N.D.	1.2	mg/kg	57.63
06089	Ethanol	64-17-5	N.D.	6.2	mg/kg	57.63
06293	Acetone	67-64-1	N.D.	0.44	mg/kg	57.63
06294	Carbon Disulfide	75-15-0	N.D.	0.062	mg/kg	57.63
06296	2-Butanone	78-93-3	N.D.	0.25	mg/kg	57.63
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.062	mg/kg	57.63
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.062	mg/kg	57.63
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.19	mg/kg	57.63
06300	2-Hexanone	591-78-6	N.D.	0.19	mg/kg	57.63
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.12	mg/kg	57.63
08199	Freon 113	76-13-1	N.D.	0.12	mg/kg	57.63
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.12	mg/kg	57.63
05444	Chloromethane	74-87-3	N.D.	0.12	mg/kg	57.63
05445	Vinyl Chloride	75-01-4	N.D.	0.062	mg/kg	57.63
05446	Bromomethane	74-83-9	N.D.	0.12	mg/kg	57.63
05447	Chloroethane	75-00-3	N.D.	0.12	mg/kg	57.63
05448	Trichlorofluoromethane	75-69-4	N.D.	0.12	mg/kg	57.63
05449	1,1-Dichloroethene	75-35-4	N.D.	0.062	mg/kg	57.63
05450	Methylene Chloride	75-09-2	N.D.	0.12	mg/kg	57.63
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.062	mg/kg	57.63
05452	1,1-Dichloroethane	75-34-3	N.D.	0.062	mg/kg	57.63
05453	2,2-Dichloropropane	594-20-7	N.D.	0.062	mg/kg	57.63

Lancaster Laboratories Sample No. SW 5120146

SB-10 Grab Soil Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007 12:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB010 SDG#: ALK57-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.062	mg/kg	57.63
05455	Chloroform	67-66-3	N.D.	0.062	mg/kg	57.63
05456	Bromochloromethane	74-97-5	N.D.	0.062	mg/kg	57.63
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.062	mg/kg	57.63
05458	Carbon Tetrachloride	56-23-5	N.D.	0.062	mg/kg	57.63
05459	1,1-Dichloropropene	563-58-6	N.D.	0.062	mg/kg	57.63
05460	Benzene	71-43-2	N.D.	0.031	mg/kg	57.63
05461	1,2-Dichloroethane	107-06-2	N.D.	0.062	mg/kg	57.63
05462	Trichloroethene	79-01-6	N.D.	0.062	mg/kg	57.63
05463	1,2-Dichloropropane	78-87-5	N.D.	0.062	mg/kg	57.63
05464	Dibromomethane	74-95-3	N.D.	0.062	mg/kg	57.63
05465	Bromodichloromethane	75-27-4	N.D.	0.062	mg/kg	57.63
05466	Toluene	108-88-3	N.D.	0.062	mg/kg	57.63
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.062	mg/kg	57.63
05468	Tetrachloroethene	127-18-4	N.D.	0.062	mg/kg	57.63
05469	1,3-Dichloropropane	142-28-9	N.D.	0.062	mg/kg	57.63
05470	Dibromochloromethane	124-48-1	N.D.	0.062	mg/kg	57.63
05471	1,2-Dibromoethane	106-93-4	N.D.	0.062	mg/kg	57.63
05472	Chlorobenzene	108-90-7	N.D.	0.062	mg/kg	57.63
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.062	mg/kg	57.63
05474	Ethylbenzene	100-41-4	N.D.	0.062	mg/kg	57.63
05475	m+p-Xylene	1330-20-7	2.0	0.062	mg/kg	57.63
05476	o-Xylene	95-47-6	5.4	0.062	mg/kg	57.63
05477	Styrene	100-42-5	N.D.	0.062	mg/kg	57.63
05478	Bromoform	75-25-2	N.D.	0.062	mg/kg	57.63
05479	Isopropylbenzene	98-82-8	N.D.	0.062	mg/kg	57.63
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.062	mg/kg	57.63
05481	Bromobenzene	108-86-1	N.D.	0.062	mg/kg	57.63
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.062	mg/kg	57.63
05483	n-Propylbenzene	103-65-1	N.D.	0.062	mg/kg	57.63
05484	2-Chlorotoluene	95-49-8	N.D.	0.062	mg/kg	57.63
05485	1,3,5-Trimethylbenzene	108-67-8	6.5	0.062	mg/kg	57.63
05486	4-Chlorotoluene	106-43-4	N.D.	0.062	mg/kg	57.63
05487	tert-Butylbenzene	98-06-6	N.D.	0.062	mg/kg	57.63
05488	1,2,4-Trimethylbenzene	95-63-6	7.4	0.062	mg/kg	57.63
05489	sec-Butylbenzene	135-98-8	N.D.	0.062	mg/kg	57.63
05490	p-Isopropyltoluene	99-87-6	0.19	0.062	mg/kg	57.63
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.062	mg/kg	57.63
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.062	mg/kg	57.63
05493	n-Butylbenzene	104-51-8	N.D.	0.062	mg/kg	57.63
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.062	mg/kg	57.63
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.12	mg/kg	57.63

Lancaster Laboratories Sample No. SW 5120146

SB-10 Grab Soil Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007 12:30 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB010 SDG#: ALK57-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05496	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.062	mg/kg	57.63
05497	Hexachlorobutadiene	87-68-3	N.D.	0.12	mg/kg	57.63
05498	Naphthalene	91-20-3	15.	0.062	mg/kg	57.63
05499	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.062	mg/kg	57.63

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01450	Alaska AK101 GRO (soils)	AK 101	1	08/07/2007 21:33	Linda C Pape	1865.37
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/13/2007 20:34	Heather E Williams	200
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 13:17	Stephanie A Selis	57.63
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 13:17	Stephanie A Selis	57.63
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 12:30	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 12:30	Client Supplied	1

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Analysis Report

Lancaster Laboratories Sample No. SW 5120147

SB-11 Grab Soil Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007 13:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB011 SDG#: ALK57-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01450	Alaska AK101 GRO (soils)	n.a.	37.	6.7	mg/kg	280.27
00111	Moisture	n.a.	16.9	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01738	TPH-DRO/RRO (AK)					
01739	C10-<C25 DRO	n.a.	150.	48.	mg/kg	10
01740	C25-C36 RRO	n.a.	N.D.	48.	mg/kg	10
03983	EPA SW 846/8260 - Soil					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.037	mg/kg	61.27
02017	di-Isopropyl ether	108-20-3	N.D.	0.074	mg/kg	61.27
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.074	mg/kg	61.27
02019	t-Amyl methyl ether	994-05-8	N.D.	0.074	mg/kg	61.27
02020	t-Butyl alcohol	75-65-0	N.D.	1.5	mg/kg	61.27
06089	Ethanol	64-17-5	N.D.	7.4	mg/kg	61.27
06293	Acetone	67-64-1	N.D.	0.52	mg/kg	61.27
06294	Carbon Disulfide	75-15-0	N.D.	0.074	mg/kg	61.27
06296	2-Butanone	78-93-3	N.D.	0.29	mg/kg	61.27
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.074	mg/kg	61.27
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.074	mg/kg	61.27
06299	4-Methyl-2-pentanone	108-10-1	N.D.	0.22	mg/kg	61.27
06300	2-Hexanone	591-78-6	N.D.	0.22	mg/kg	61.27
07585	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.15	mg/kg	61.27
08199	Freon 113	76-13-1	N.D.	0.15	mg/kg	61.27
05441	EPA SW846/8260 (soil)					
05443	Dichlorodifluoromethane	75-71-8	N.D.	0.15	mg/kg	61.27
05444	Chloromethane	74-87-3	N.D.	0.15	mg/kg	61.27
05445	Vinyl Chloride	75-01-4	N.D.	0.074	mg/kg	61.27
05446	Bromomethane	74-83-9	N.D.	0.15	mg/kg	61.27
05447	Chloroethane	75-00-3	N.D.	0.15	mg/kg	61.27
05448	Trichlorofluoromethane	75-69-4	N.D.	0.15	mg/kg	61.27
05449	1,1-Dichloroethene	75-35-4	N.D.	0.074	mg/kg	61.27
05450	Methylene Chloride	75-09-2	N.D.	0.15	mg/kg	61.27
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	0.074	mg/kg	61.27
05452	1,1-Dichloroethane	75-34-3	N.D.	0.074	mg/kg	61.27
05453	2,2-Dichloropropane	594-20-7	N.D.	0.074	mg/kg	61.27

Lancaster Laboratories Sample No. SW 5120147

SB-11 Grab Soil Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007 13:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB011 SDG#: ALK57-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	0.074	mg/kg	61.27
05455	Chloroform	67-66-3	N.D.	0.074	mg/kg	61.27
05456	Bromochloromethane	74-97-5	N.D.	0.074	mg/kg	61.27
05457	1,1,1-Trichloroethane	71-55-6	N.D.	0.074	mg/kg	61.27
05458	Carbon Tetrachloride	56-23-5	N.D.	0.074	mg/kg	61.27
05459	1,1-Dichloropropene	563-58-6	N.D.	0.074	mg/kg	61.27
05460	Benzene	71-43-2	0.051	0.037	mg/kg	61.27
05461	1,2-Dichloroethane	107-06-2	N.D.	0.074	mg/kg	61.27
05462	Trichloroethene	79-01-6	N.D.	0.074	mg/kg	61.27
05463	1,2-Dichloropropane	78-87-5	N.D.	0.074	mg/kg	61.27
05464	Dibromomethane	74-95-3	N.D.	0.074	mg/kg	61.27
05465	Bromodichloromethane	75-27-4	N.D.	0.074	mg/kg	61.27
05466	Toluene	108-88-3	0.31	0.074	mg/kg	61.27
05467	1,1,2-Trichloroethane	79-00-5	N.D.	0.074	mg/kg	61.27
05468	Tetrachloroethene	127-18-4	N.D.	0.074	mg/kg	61.27
05469	1,3-Dichloropropane	142-28-9	N.D.	0.074	mg/kg	61.27
05470	Dibromochloromethane	124-48-1	N.D.	0.074	mg/kg	61.27
05471	1,2-Dibromoethane	106-93-4	N.D.	0.074	mg/kg	61.27
05472	Chlorobenzene	108-90-7	N.D.	0.074	mg/kg	61.27
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.074	mg/kg	61.27
05474	Ethylbenzene	100-41-4	N.D.	0.074	mg/kg	61.27
05475	m+p-Xylene	1330-20-7	0.64	0.074	mg/kg	61.27
05476	o-Xylene	95-47-6	0.43	0.074	mg/kg	61.27
05477	Styrene	100-42-5	N.D.	0.074	mg/kg	61.27
05478	Bromoform	75-25-2	N.D.	0.074	mg/kg	61.27
05479	Isopropylbenzene	98-82-8	N.D.	0.074	mg/kg	61.27
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.074	mg/kg	61.27
05481	Bromobenzene	108-86-1	N.D.	0.074	mg/kg	61.27
05482	1,2,3-Trichloropropane	96-18-4	N.D.	0.074	mg/kg	61.27
05483	n-Propylbenzene	103-65-1	N.D.	0.074	mg/kg	61.27
05484	2-Chlorotoluene	95-49-8	N.D.	0.074	mg/kg	61.27
05485	1,3,5-Trimethylbenzene	108-67-8	0.32	0.074	mg/kg	61.27
05486	4-Chlorotoluene	106-43-4	N.D.	0.074	mg/kg	61.27
05487	tert-Butylbenzene	98-06-6	N.D.	0.074	mg/kg	61.27
05488	1,2,4-Trimethylbenzene	95-63-6	0.51	0.074	mg/kg	61.27
05489	sec-Butylbenzene	135-98-8	N.D.	0.074	mg/kg	61.27
05490	p-Isopropyltoluene	99-87-6	N.D.	0.074	mg/kg	61.27
05491	1,3-Dichlorobenzene	541-73-1	N.D.	0.074	mg/kg	61.27
05492	1,4-Dichlorobenzene	106-46-7	N.D.	0.074	mg/kg	61.27
05493	n-Butylbenzene	104-51-8	N.D.	0.074	mg/kg	61.27
05494	1,2-Dichlorobenzene	95-50-1	N.D.	0.074	mg/kg	61.27
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.15	mg/kg	61.27

Lancaster Laboratories Sample No. SW 5120147

SB-11 Grab Soil Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007 13:00 by JL

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

SB011 SDG#: ALK57-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
05496	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.074	mg/kg	61.27
05497	Hexachlorobutadiene	87-68-3	N.D.	0.15	mg/kg	61.27
05498	Naphthalene	91-20-3	0.73	0.074	mg/kg	61.27
05499	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.074	mg/kg	61.27

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01450	Alaska AK101 GRO (soils)	AK 101	1	08/07/2007 22:14	Linda C Pape	280.27
00111	Moisture	SM20 2540 G	1	08/07/2007 16:55	Scott W Freisher	1
01738	TPH-DRO/RRO (AK)	AK 102/AK 103 04/08/02	1	08/10/2007 05:42	Heather E Williams	10
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	08/08/2007 13:39	Stephanie A Selis	61.27
05441	EPA SW846/8260 (soil)	SW-846 8260B	1	08/08/2007 13:39	Stephanie A Selis	61.27
04833	Extraction / Fuel TPH (Soils)	AK 102/AK 103 04/08/02	1	08/08/2007 19:30	Jessica Agosto	1
06119	GC - Field Preserved (AK-101)	AK 101	1	07/31/2007 13:00	Client Supplied	1
06173	GC/MS - Field Preserved (Ak)	SW-846 5035A	1	07/31/2007 13:00	Client Supplied	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5120148

Trip Blank Water Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

ALKTB SDG#: ALK57-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01438	Alaska AK101 GRO (waters)	n.a.	N.D.	0.01	mg/l	1
05382	EPA SW846/8260 (water)					
05384	Dichlorodifluoromethane	75-71-8	N.D.	0.002	mg/l	1
05385	Chloromethane	74-87-3	N.D.	0.001	mg/l	1
05386	Vinyl Chloride	75-01-4	N.D.	0.001	mg/l	1
05387	Bromomethane	74-83-9	N.D.	0.001	mg/l	1
05388	Chloroethane	75-00-3	N.D.	0.001	mg/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	0.002	mg/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.0008	mg/l	1
05391	Methylene Chloride	75-09-2	N.D.	0.002	mg/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0008	mg/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	0.001	mg/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	0.001	mg/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0008	mg/l	1
05396	Chloroform	67-66-3	N.D.	0.0008	mg/l	1
05397	Bromochloromethane	74-97-5	N.D.	0.001	mg/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.0008	mg/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	0.001	mg/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	0.001	mg/l	1
05401	Benzene	71-43-2	N.D.	0.0005	mg/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.0005	mg/l	1
05403	Trichloroethene	79-01-6	N.D.	0.001	mg/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	0.001	mg/l	1
05405	Dibromomethane	74-95-3	N.D.	0.001	mg/l	1
05406	Bromodichloromethane	75-27-4	N.D.	0.001	mg/l	1
05407	Toluene	108-88-3	N.D.	0.0005	mg/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.0008	mg/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.0008	mg/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	0.001	mg/l	1
05411	Dibromochloromethane	124-48-1	N.D.	0.001	mg/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.0005	mg/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.0008	mg/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.001	mg/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.0005	mg/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.0005	mg/l	1
05417	o-Xylene	95-47-6	N.D.	0.0005	mg/l	1
05418	Styrene	100-42-5	N.D.	0.001	mg/l	1
05419	Bromoform	75-25-2	N.D.	0.001	mg/l	1
05420	Isopropylbenzene	98-82-8	N.D.	0.001	mg/l	1

Lancaster Laboratories Sample No. WW 5120148

Trip Blank Water Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

ALKTB SDG#: ALK57-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.001	mg/l	1
05422	Bromobenzene	108-86-1	N.D.	0.001	mg/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	0.001	mg/l	1
05424	n-Propylbenzene	103-65-1	N.D.	0.001	mg/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	0.001	mg/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.001	mg/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	0.001	mg/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	0.001	mg/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.001	mg/l	1
05430	sec-Butylbenzene	135-98-8	N.D.	0.001	mg/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	0.001	mg/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	0.001	mg/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	0.001	mg/l	1
05434	n-Butylbenzene	104-51-8	N.D.	0.001	mg/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	0.001	mg/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.002	mg/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.001	mg/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	0.002	mg/l	1
05439	Naphthalene	91-20-3	N.D.	0.001	mg/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.001	mg/l	1
08202	EPA SW 846/8260 - Water					
01587	Ethanol	64-17-5	N.D.	0.050	mg/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.0005	mg/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.0005	mg/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.0005	mg/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	0.005	mg/l	1
06302	Acetone	67-64-1	N.D.	0.006	mg/l	1
06303	Carbon Disulfide	75-15-0	N.D.	0.001	mg/l	1
06305	2-Butanone	78-93-3	N.D.	0.003	mg/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.001	mg/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.001	mg/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	0.003	mg/l	1
06309	2-Hexanone	591-78-6	N.D.	0.003	mg/l	1
07583	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.002	mg/l	1
	2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.					
08203	Freon 113	76-13-1	N.D.	0.002	mg/l	1

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW 5120148

Trip Blank Water Sample
Facility# 211815
401 Driveway St-Fairbanks, AK
Collected:07/31/2007

Account Number: 11964

Submitted: 08/02/2007 09:25
Reported: 08/15/2007 at 08:58
Discard: 09/15/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

ALKTB SDG#: ALK57-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

State of Alaska Lab Certification No. UST-061

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	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01438	Alaska AK101 GRO (waters)	AK 101	1	08/06/2007 15:04	Martha L Seidel	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	08/08/2007 14:30	Chelsea B Eastep	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	08/08/2007 14:30	Chelsea B Eastep	1
01146	GC VOA Water Prep	SW-846 5030B	1	08/06/2007 15:04	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/08/2007 14:30	Chelsea B Eastep	1

Quality Control Summary

Client Name: Chevron Group Number: 1049992
Reported: 08/15/07 at 08:58 AM

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	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07212A53C	Sample number(s): 5120148							
Alaska AK101 GRO (waters)	N.D.	0.01	mg/l	85	85	60-120	0	20
Batch number: 07218A02B	Sample number(s): 5120145-5120147							
Alaska AK101 GRO (soils)	N.D.	0.5	mg/kg	91	94	60-120	0	20
Batch number: 07219820005B	Sample number(s): 5120145-5120147							
Moisture				100		99-101		
Batch number: 072200010A	Sample number(s): 5120145-5120147							
C10-<C25 DRO	N.D.	4.0	mg/kg	95	92	75-125	3	50
C25-C36 RRO	N.D.	4.0	mg/kg	105	99	75-125	6	50
Batch number: R072201AB	Sample number(s): 5120145-5120147							
Methyl Tertiary Butyl Ether	N.D.	0.025	mg/kg	100	101	72-117	1	30
di-Isopropyl ether	N.D.	0.050	mg/kg	91	96	72-120	6	30
Ethyl t-butyl ether	N.D.	0.050	mg/kg	94	98	72-115	4	30
t-Amyl methyl ether	N.D.	0.050	mg/kg	95	99	73-116	4	30
t-Butyl alcohol	N.D.	1.0	mg/kg	90	92	52-153	2	30
Dichlorodifluoromethane	N.D.	0.10	mg/kg	51	64	28-134	22	30
Chloromethane	N.D.	0.10	mg/kg	81	89	58-123	9	30
Vinyl Chloride	N.D.	0.050	mg/kg	83	90	60-118	8	30
Bromomethane	N.D.	0.10	mg/kg	62	69	61-118	9	30
Chloroethane	N.D.	0.10	mg/kg	80	85	63-120	6	30
Trichlorofluoromethane	N.D.	0.10	mg/kg	81	84	58-125	4	30
1,1-Dichloroethene	N.D.	0.050	mg/kg	108	111	74-115	3	30
Methylene Chloride	N.D.	0.10	mg/kg	99	107	75-120	8	30
trans-1,2-Dichloroethene	N.D.	0.050	mg/kg	99	106	77-113	6	30
1,1-Dichloroethane	N.D.	0.050	mg/kg	100	106	82-116	5	30
2,2-Dichloropropane	N.D.	0.050	mg/kg	94	99	72-123	5	30
cis-1,2-Dichloroethene	N.D.	0.050	mg/kg	99	103	84-113	4	30
Chloroform	N.D.	0.050	mg/kg	100	104	81-117	4	30
Bromochloromethane	N.D.	0.050	mg/kg	98	103	75-121	5	30
1,1,1-Trichloroethane	N.D.	0.050	mg/kg	98	103	74-127	6	30
Carbon Tetrachloride	N.D.	0.050	mg/kg	96	100	76-122	4	30
1,1-Dichloropropene	N.D.	0.050	mg/kg	99	105	75-121	6	30
Benzene	N.D.	0.025	mg/kg	100	106	84-115	6	30
1,2-Dichloroethane	N.D.	0.050	mg/kg	99	105	76-126	6	30
Trichloroethene	N.D.	0.050	mg/kg	101	107	81-114	5	30
1,2-Dichloropropane	N.D.	0.050	mg/kg	98	103	78-119	5	30
Dibromomethane	N.D.	0.050	mg/kg	96	99	79-118	4	30
Bromodichloromethane	N.D.	0.050	mg/kg	96	99	77-116	3	30
Toluene	N.D.	0.050	mg/kg	100	106	81-116	6	30
1,1,2-Trichloroethane	N.D.	0.050	mg/kg	101	103	81-112	2	30
Tetrachloroethene	N.D.	0.050	mg/kg	97	103	70-117	6	30
1,3-Dichloropropane	N.D.	0.050	mg/kg	97	100	80-115	4	30
Dibromochloromethane	N.D.	0.050	mg/kg	95	100	80-113	5	30

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049992
Reported: 08/15/07 at 08:58 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dibromoethane	N.D.	0.050	mg/kg	98	102	77-114	3	30
Chlorobenzene	N.D.	0.050	mg/kg	99	105	81-112	6	30
1,1,1,2-Tetrachloroethane	N.D.	0.050	mg/kg	95	101	78-115	6	30
Ethylbenzene	N.D.	0.050	mg/kg	99	105	82-115	6	30
m+p-Xylene	N.D.	0.050	mg/kg	98	102	82-117	4	30
o-Xylene	N.D.	0.050	mg/kg	97	103	82-117	6	30
Styrene	N.D.	0.050	mg/kg	96	103	79-108	6	30
Bromoform	N.D.	0.050	mg/kg	89	93	63-120	5	30
Isopropylbenzene	N.D.	0.050	mg/kg	96	102	82-110	6	30
1,1,2,2-Tetrachloroethane	N.D.	0.050	mg/kg	98	106	64-121	7	30
Bromobenzene	N.D.	0.050	mg/kg	97	105	77-113	8	30
1,2,3-Trichloropropane	N.D.	0.050	mg/kg	97	104	69-119	7	30
n-Propylbenzene	N.D.	0.050	mg/kg	100	108	76-122	8	30
2-Chlorotoluene	N.D.	0.050	mg/kg	98	108	73-114	10	30
1,3,5-Trimethylbenzene	N.D.	0.050	mg/kg	98	105	74-112	6	30
4-Chlorotoluene	N.D.	0.050	mg/kg	99	105	75-110	5	30
tert-Butylbenzene	N.D.	0.050	mg/kg	95	102	72-113	7	30
1,2,4-Trimethylbenzene	N.D.	0.050	mg/kg	100	106	74-117	6	30
sec-Butylbenzene	N.D.	0.050	mg/kg	98	107	72-112	8	30
p-Isopropyltoluene	N.D.	0.050	mg/kg	96	103	72-113	8	30
1,3-Dichlorobenzene	N.D.	0.050	mg/kg	95	103	76-112	8	30
1,4-Dichlorobenzene	N.D.	0.050	mg/kg	97	104	78-108	7	30
n-Butylbenzene	N.D.	0.050	mg/kg	94	105	68-116	11	30
1,2-Dichlorobenzene	N.D.	0.050	mg/kg	96	103	81-109	7	30
1,2-Dibromo-3-chloropropane	N.D.	0.10	mg/kg	93	92	49-127	1	30
1,2,4-Trichlorobenzene	N.D.	0.050	mg/kg	96	100	60-116	4	30
Hexachlorobutadiene	N.D.	0.10	mg/kg	82	89	57-122	9	30
Naphthalene	N.D.	0.050	mg/kg	91	94	52-121	4	30
1,2,3-Trichlorobenzene	N.D.	0.050	mg/kg	89	94	63-120	5	30
Ethanol	7.6	5.0	mg/kg	90	80	48-149	12	30
Acetone	N.D.	0.35	mg/kg	54	61	26-198	12	30
Carbon Disulfide	N.D.	0.050	mg/kg	94	99	69-109	4	30
2-Butanone	N.D.	0.20	mg/kg	61	60	45-154	2	30
trans-1,3-Dichloropropene	N.D.	0.050	mg/kg	93	98	79-112	5	30
cis-1,3-Dichloropropene	N.D.	0.050	mg/kg	95	103	80-111	8	30
4-Methyl-2-pentanone	N.D.	0.15	mg/kg	87	89	51-141	3	30
2-Hexanone	N.D.	0.15	mg/kg	71	72	38-154	1	30
2-Chloroethyl Vinyl Ether	N.D.	0.10	mg/kg	90	93	26-148	3	30
Freon 113	N.D.	0.10	mg/kg	87	92	62-112	6	30
Batch number: W072201AA	Sample number(s): 5120148							
Ethanol	N.D.	0.050	mg/l	99	106	39-161	7	30
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/l	101	100	73-119	1	30
di-Isopropyl ether	N.D.	0.0005	mg/l	99	99	70-123	0	30
Ethyl t-butyl ether	N.D.	0.0005	mg/l	97	97	74-120	0	30
t-Amyl methyl ether	N.D.	0.0005	mg/l	94	93	79-113	1	30
t-Butyl alcohol	N.D.	0.005	mg/l	119	120	69-127	1	30
Dichlorodifluoromethane	N.D.	0.002	mg/l	98	99	26-157	1	30
Chloromethane	N.D.	0.001	mg/l	83	86	47-132	3	30
Vinyl Chloride	N.D.	0.001	mg/l	86	89	54-123	4	30
Bromomethane	N.D.	0.001	mg/l	89	92	47-129	4	30
Chloroethane	N.D.	0.001	mg/l	88	91	57-125	3	30
Trichlorofluoromethane	N.D.	0.002	mg/l	105	104	57-141	1	30
1,1-Dichloroethene	N.D.	0.0008	mg/l	107	107	76-122	0	30
Methylene Chloride	N.D.	0.002	mg/l	106	107	85-120	1	30

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049992
Reported: 08/15/07 at 08:58 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
trans-1,2-Dichloroethene	N.D.	0.0008	mg/l	107	103	83-117	3	30
1,1-Dichloroethane	N.D.	0.001	mg/l	110	109	83-127	1	30
2,2-Dichloropropane	N.D.	0.001	mg/l	105	103	74-130	2	30
cis-1,2-Dichloroethene	N.D.	0.0008	mg/l	101	101	84-117	1	30
Chloroform	N.D.	0.0008	mg/l	112	110	86-124	2	30
Bromochloromethane	N.D.	0.001	mg/l	107	106	83-121	1	30
1,1,1-Trichloroethane	N.D.	0.0008	mg/l	112	110	83-127	2	30
Carbon Tetrachloride	N.D.	0.001	mg/l	113	112	77-130	1	30
1,1-Dichloropropene	N.D.	0.001	mg/l	99	96	84-116	3	30
Benzene	N.D.	0.0005	mg/l	100	100	78-119	0	30
1,2-Dichloroethane	N.D.	0.0005	mg/l	119	117	77-132	2	30
Trichloroethene	N.D.	0.001	mg/l	104	103	87-117	1	30
1,2-Dichloropropane	N.D.	0.001	mg/l	105	105	80-117	0	30
Dibromomethane	N.D.	0.001	mg/l	104	106	87-117	2	30
Bromodichloromethane	N.D.	0.001	mg/l	117	117	83-121	1	30
Toluene	N.D.	0.0005	mg/l	102	102	85-115	0	30
1,1,2-Trichloroethane	N.D.	0.0008	mg/l	106	104	86-113	2	30
Tetrachloroethene	N.D.	0.0008	mg/l	104	102	74-125	2	30
1,3-Dichloropropane	N.D.	0.001	mg/l	102	101	84-119	0	30
Dibromochloromethane	N.D.	0.001	mg/l	118	116	78-119	2	30
1,2-Dibromoethane	N.D.	0.0005	mg/l	102	102	81-114	0	30
Chlorobenzene	N.D.	0.0008	mg/l	104	104	85-115	0	30
1,1,1,2-Tetrachloroethane	N.D.	0.001	mg/l	109	105	83-114	4	30
Ethylbenzene	N.D.	0.0005	mg/l	98	97	82-119	1	30
m+p-Xylene	N.D.	0.0005	mg/l	100	99	83-113	1	30
o-Xylene	N.D.	0.0005	mg/l	98	98	83-113	0	30
Styrene	N.D.	0.001	mg/l	97	97	82-111	0	30
Bromoform	N.D.	0.001	mg/l	101	102	69-118	1	30
Isopropylbenzene	N.D.	0.001	mg/l	95	95	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.001	mg/l	101	101	72-119	0	30
Bromobenzene	N.D.	0.001	mg/l	99	100	82-110	0	30
1,2,3-Trichloropropane	N.D.	0.001	mg/l	108	102	78-117	6	30
n-Propylbenzene	N.D.	0.001	mg/l	99	99	78-119	0	30
2-Chlorotoluene	N.D.	0.001	mg/l	100	101	78-115	1	30
1,3,5-Trimethylbenzene	N.D.	0.001	mg/l	97	97	78-116	1	30
4-Chlorotoluene	N.D.	0.001	mg/l	99	101	80-112	2	30
tert-Butylbenzene	N.D.	0.001	mg/l	95	97	74-114	2	30
1,2,4-Trimethylbenzene	N.D.	0.001	mg/l	98	98	78-117	1	30
sec-Butylbenzene	N.D.	0.001	mg/l	96	96	72-120	0	30
p-Isopropyltoluene	N.D.	0.001	mg/l	94	95	72-118	1	30
1,3-Dichlorobenzene	N.D.	0.001	mg/l	100	100	81-114	0	30
1,4-Dichlorobenzene	N.D.	0.001	mg/l	100	99	84-116	1	30
n-Butylbenzene	N.D.	0.001	mg/l	95	97	75-120	2	30
1,2-Dichlorobenzene	N.D.	0.001	mg/l	101	102	81-112	1	30
1,2-Dibromo-3-chloropropane	N.D.	0.002	mg/l	104	102	62-128	2	30
1,2,4-Trichlorobenzene	N.D.	0.001	mg/l	89	88	65-114	1	30
Hexachlorobutadiene	N.D.	0.002	mg/l	91	90	62-119	2	30
Naphthalene	N.D.	0.001	mg/l	85	87	61-116	2	30
1,2,3-Trichlorobenzene	N.D.	0.001	mg/l	91	92	67-114	1	30
Acetone	N.D.	0.006	mg/l	102	103	32-200	1	30
Carbon Disulfide	N.D.	0.001	mg/l	100	101	69-119	1	30
2-Butanone	N.D.	0.003	mg/l	94	93	52-163	2	30
trans-1,3-Dichloropropene	N.D.	0.001	mg/l	97	99	79-114	2	30
cis-1,3-Dichloropropene	N.D.	0.001	mg/l	95	97	78-114	1	30
4-Methyl-2-pentanone	N.D.	0.003	mg/l	95	93	70-130	2	30

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049992
Reported: 08/15/07 at 08:58 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Hexanone	N.D.	0.003	mg/l	91	92	61-140	0	30
2-Chloroethyl Vinyl Ether	N.D.	0.002	mg/l	76	78	66-125	2	30
Freon 113	N.D.	0.002	mg/l	108	104	66-125	3	30

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 RPD Max
Batch number: 07212A53C	Sample number(s): 5120148 UNSPK: P119780								
Alaska AK101 GRO (waters)	125*		60-120						
Batch number: 07219820005B	Sample number(s): 5120145-5120147 BKG: P121246								
Moisture						10.5	10.4	2	15
Batch number: 072200010A	Sample number(s): 5120145-5120147 UNSPK: P120119								
C10-<C25 DRO	116	143*	60-140	15	50				
C25-C36 RRO	120	152*	60-140	17	50				
Batch number: W072201AA	Sample number(s): 5120148 UNSPK: P119629								
Ethanol	112		41-159						
Methyl Tertiary Butyl Ether	116		69-127						
di-Isopropyl ether	117		68-129						
Ethyl t-butyl ether	110		78-119						
t-Amyl methyl ether	108		72-125						
t-Butyl alcohol	138*		64-130						
Dichlorodifluoromethane	129		31-185						
Chloromethane	103		46-149						
Vinyl Chloride	111		54-143						
Bromomethane	109		52-141						
Chloroethane	111		56-140						
Trichlorofluoromethane	137		64-165						
1,1-Dichloroethene	134		87-145						
Methylene Chloride	123		79-133						
trans-1,2-Dichloroethene	129		82-133						
1,1-Dichloroethane	130		85-135						
2,2-Dichloropropane	131		79-146						
cis-1,2-Dichloroethene	121		83-126						
Chloroform	136		83-139						
Bromochloromethane	120		82-129						
1,1,1-Trichloroethane	139		81-142						
Carbon Tetrachloride	142		82-149						
1,1-Dichloropropene	122		86-134						
Benzene	123		83-128						
1,2-Dichloroethane	138		70-143						
Trichloroethene	130		83-136						
1,2-Dichloropropane	125		83-129						
Dibromomethane	124		82-128						
Bromodichloromethane	139*		80-129						
Toluene	127		83-127						
1,1,2-Trichloroethane	124		77-125						

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049992
Reported: 08/15/07 at 08:58 AM

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 RPD Max
Tetrachloroethene	124		78-133						
1,3-Dichloropropane	119		82-121						
Dibromochloromethane	137*		82-119						
1,2-Dibromoethane	119		78-120						
Chlorobenzene	126*		83-120						
1,1,1,2-Tetrachloroethane	129*		83-119						
Ethylbenzene	121		82-129						
m+p-Xylene	125		82-130						
o-Xylene	121		82-130						
Styrene	121		69-131						
Bromoform	119		64-119						
Isopropylbenzene	122		81-130						
1,1,2,2-Tetrachloroethane	116		73-121						
Bromobenzene	116		83-121						
1,2,3-Trichloropropane	120		73-125						
n-Propylbenzene	123		74-138						
2-Chlorotoluene	121		78-121						
1,3,5-Trimethylbenzene	119		77-124						
4-Chlorotoluene	122		81-123						
tert-Butylbenzene	119		76-128						
1,2,4-Trimethylbenzene	119		80-125						
sec-Butylbenzene	120		73-137						
p-Isopropyltoluene	119		72-128						
1,3-Dichlorobenzene	118		79-123						
1,4-Dichlorobenzene	119		81-122						
n-Butylbenzene	119		73-134						
1,2-Dichlorobenzene	121*		82-117						
1,2-Dibromo-3-chloropropane	118		52-137						
1,2,4-Trichlorobenzene	105		60-121						
Hexachlorobutadiene	117		51-135						
Naphthalene	101		50-124						
1,2,3-Trichlorobenzene	108		65-127						
Acetone	108		48-143						
Carbon Disulfide	125		74-135						
2-Butanone	102		57-137						
trans-1,3-Dichloropropene	117		77-123						
cis-1,3-Dichloropropene	112		80-126						
4-Methyl-2-pentanone	108		68-133						
2-Hexanone	105		60-135						
2-Chloroethyl Vinyl Ether	15		1-156						
Freon 113	136		78-146						

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: Alaska AK101 GRO (waters)
Batch number: 07212A53C
Trifluorotoluene-F

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049992
Reported: 08/15/07 at 08:58 AM

Surrogate Quality Control

5120148	84			
Blank	84			
LCS	90			
LCSD	91			
MS	98			
Limits:	60-120			

Analysis Name: Alaska AK101 GRO (soils)
Batch number: 07218A02B

	Trifluorotoluene-F
5120145	0*
5120146	9*
5120147	13*
Blank	97
LCS	96
LCSD	95
Limits:	60-120

Analysis Name: TPH-DRO/RRO (AK)
Batch number: 072200010A

	Orthoterphenyl	n-Triacontane-d62
5120145	458*	252*
5120146	146	163*
5120147	83	111
Blank	96	106
LCS	71	99
LCSD	69	100
MS	71	93
MSD	77	100
Limits:	50-150	50-150

Analysis Name: EPA SW846/8260 (soil)
Batch number: R072201AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5120145	237*	231*	223*	288*
5120146	256*	256*	188*	234*
5120147	78	81	77	72
Blank	98	98	97	92
LCS	94	93	95	96
LCSD	98	98	99	101
Limits:	71-114	70-109	70-123	70-111

Analysis Name: EPA SW846/8260 (water)
Batch number: W072201AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5120148	104	97	100	92
Blank	104	97	101	92
LCS	103	100	103	102
LCSD	103	95	103	103

*- Outside of specification
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1049992
Reported: 08/15/07 at 08:58 AM

Surrogate Quality Control

MS	102	96	103	103
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
(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.

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11964 Sample #: 5120146-48 SCR#: 244307 46732
grp 1049992

Facility #: Former Unocal #306456, Chevron #1001430, Texaco #211815
Site Address: 328.5 Illinois St, 418 Illinois St 410 Driveway St
Chevron PM: Stacy Frerichs Lead Consultant: Arcadis BBL
Consultant/Office: Arcadis BBL
Consultant Prj. Mgr.: Rebecca Andresen
Consultant Phone #: 206 325 5254 Fax #:
Sampler: Jason Luckett
Service Order #: 001501445 ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ___	Lead 7420 ☐ 7421 ☐	VOCs 8260B	GRO (AK101)	DRO + RRO AK102 AK103			
SB-1	Soil		2.0	07/31/07	0800		X									1	1	1			
SB-2					0830		X									1	1	1			
SB-3					0900		X									1	1	1			
SB-4					0930		X									1	1	1			
SB-5					1000		X									1	1	1			
SB-6					1030		X									1	1	1			
SB-7					1100		X									1	1	1			
SB-8					1130		X									1	1	1			
SB-9					1200		X									1	1	1			
SB-10					1230		X									1	1	1			
SB-11	↓		↓	↓	1300		X									1	1	1			

Comments / Remarks
high PID readings
NWRTB:
0306456-0-AIL
1001430-0-AIL
0211815-0-AIL

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I – Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	7/30	13:20			
2	[signature]	8/1/07	0800			
3						

Relinquished by Commercial Carrier:
UPS FedEx Other

Temperature Upon Receipt 3.2 C°

Received by: [signature] 8/2/07 0925

Custody Seals Intact? (Yes) No

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	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 limit of quantitation, 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.

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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1051107. Samples arrived at the laboratory on Saturday, August 11, 2007. The PO# for this group is 0015014445 and the release number is HARTUNG-FRERICH.

Client Description	Lancaster Labs Number
VP2 @ 5' Grab Air Summa Canister #0416	5126044
VP2 @ 8.5' Grab Air Summa Canister #0817	5126045
VP2 @ 8.5' (Dup) Grab Air Summa Canister #0852	5126046

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC COPY TO	Blasland, Bouck & Lee	Attn: Rebecca Andresen
ELECTRONIC COPY TO	Arcadis BBL	Attn: Vanessa Varbel
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Richard H. Karam
Group Leader

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. AQ 5126044

VP2 @ 5' Grab Air Summa Canister #0416
Facility# 1001430
Illinois & Charles Sts-Fairbanks, AK

Collected:08/09/2007 16:20 by AL

Account Number: 11964

Submitted: 08/11/2007 10:15
Reported: 09/06/2007 at 16:11
Discard: 10/07/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

5-VP2 SDG#: ALK66-01

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
07056	Methane	74-82-8	9,300.	100.	ppm(v)	6,100.	66.	mg/m3	100
00015	TO-15 VOA special compounds								
00019	Benzene	71-43-2	20.	0.20	ppm(v)	64.	0.64	mg/m3	1000
00020	Toluene	108-88-3	6.0	0.20	ppm(v)	22.	0.75	mg/m3	1000
00021	Ethylbenzene	100-41-4	0.17	0.020	ppm(v)	0.73	0.087	mg/m3	100
00022	m/p-Xylenes	1330-20-7	1.5	0.040	ppm(v)	6.7	0.17	mg/m3	100
00023	o-Xylene	95-47-6	0.70	0.020	ppm(v)	3.0	0.087	mg/m3	100
00032	Naphthalene	91-20-3	N.D.	0.040	ppm(v)	N.D.	0.21	mg/m3	100
	1,1-difluoroethane < 100ppbv								
00034	O2 and CO2 in Air								
00035	Oxygen	7782-44-7	19,000.	3,000.	ppm(v)	24,000.	3,900.	mg/m3	1
00036	Carbon Dioxide	124-38-9	N.D.	250.	ppm(v)	N.D.	450.	mg/m3	1

State of Alaska Lab Certification No. UST-061

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

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07056	Methane	EPA 18 modified	1	08/14/2007 17:10	David I Ressler	100
00015	TO-15 VOA special compounds	EPA TO-15	1	08/22/2007 13:22	Fanella S Zamcho	1000
00015	TO-15 VOA special compounds	EPA TO-15	1	08/22/2007 14:10	Fanella S Zamcho	100
00034	O2 and CO2 in Air	ASTM D1946	1	08/27/2007 12:32	Florida A Cimino	1

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Analysis Report

Lancaster Laboratories Sample No. AQ 5126045

VP2 @ 8.5' Grab Air Summa Canister #0817
Facility# 1001430
Illinois & Charles Sts-Fairbanks, AK

Collected:08/09/2007 14:23 by AL

Account Number: 11964

Submitted: 08/11/2007 10:15
Reported: 09/06/2007 at 16:11
Discard: 10/07/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

8-VP2 SDG#: ALK66-02

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
07056	Methane	74-82-8	5,800.	100.	ppm(v)	3,800.	66.	mg/m3	100
00015	TO-15 VOA special compounds								
00019	Benzene	71-43-2	81.	2.0	ppm(v)	260.	6.4	mg/m3	10000
00020	Toluene	108-88-3	55.	2.0	ppm(v)	210.	7.5	mg/m3	10000
00021	Ethylbenzene	100-41-4	2.4	0.20	ppm(v)	10.	0.87	mg/m3	1000
00022	m/p-Xylenes	1330-20-7	8.9	0.40	ppm(v)	39.	1.7	mg/m3	1000
00023	o-Xylene	95-47-6	4.8	0.20	ppm(v)	21.	0.87	mg/m3	1000
00032	Naphthalene	91-20-3	N.D.	0.40	ppm(v)	N.D.	2.1	mg/m3	1000
	1,1-difluoroethane < 100ppbv								
00034	O2 and CO2 in Air								
00035	Oxygen	7782-44-7	20,000.	3,000.	ppm(v)	26,000.	3,900.	mg/m3	1
00036	Carbon Dioxide	124-38-9	N.D.	250.	ppm(v)	N.D.	450.	mg/m3	1

State of Alaska Lab Certification No. UST-061

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

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07056	Methane	EPA 18 modified	1	08/14/2007 17:40	David I Ressler	100
00015	TO-15 VOA special compounds	EPA TO-15	1	08/22/2007 14:55	Fanella S Zamcho	10000
00015	TO-15 VOA special compounds	EPA TO-15	1	08/22/2007 15:42	Fanella S Zamcho	1000
00034	O2 and CO2 in Air	ASTM D1946	1	08/27/2007 12:54	Florida A Cimino	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. AQ 5126046

VP2 @ 8.5' (Dup) Grab Air Summa Canister #0852
Facility# 1001430
Illinois & Charles Sts-Fairbanks, AK

Collected:08/09/2007 15:20 by AL

Account Number: 11964

Submitted: 08/11/2007 10:15
Reported: 09/06/2007 at 16:11
Discard: 10/07/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

8VP2D SDG#: ALK66-03FD*

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
07056	Methane	74-82-8	5,000.	100.	ppm(v)	3,300.	66.	mg/m3	100
00015	TO-15 VOA special compounds								
00019	Benzene	71-43-2	44.	2.0	ppm(v)	140.	6.4	mg/m3	10000
00020	Toluene	108-88-3	44.	2.0	ppm(v)	170.	7.5	mg/m3	10000
00021	Ethylbenzene	100-41-4	2.0	0.20	ppm(v)	8.9	0.87	mg/m3	1000
00022	m/p-Xylenes	1330-20-7	9.4	0.40	ppm(v)	41.	1.7	mg/m3	1000
00023	o-Xylene	95-47-6	5.1	0.20	ppm(v)	22.	0.87	mg/m3	1000
00032	Naphthalene	91-20-3	N.D.	0.40	ppm(v)	N.D.	2.1	mg/m3	1000
	1,1-difluoroethane < 100ppbv								
00034	O2 and CO2 in Air								
00035	Oxygen	7782-44-7	24,000.	3,000.	ppm(v)	31,000.	3,900.	mg/m3	1
00036	Carbon Dioxide	124-38-9	N.D.	250.	ppm(v)	N.D.	450.	mg/m3	1

State of Alaska Lab Certification No. UST-061

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

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07056	Methane	EPA 18 modified	1	08/14/2007 18:11	David I Ressler	100
00015	TO-15 VOA special compounds	EPA TO-15	1	08/22/2007 16:28	Fanella S Zamcho	10000
00015	TO-15 VOA special compounds	EPA TO-15	1	08/22/2007 17:14	Fanella S Zamcho	1000
00034	O2 and CO2 in Air	ASTM D1946	1	08/27/2007 13:15	Florida A Cimino	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1051107
Reported: 09/06/07 at 04:11 PM

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	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07235FG01	Sample number(s): 5126044-5126046							
Oxygen	N.D.	3,000.	ppm(v)	110		70-130		
Carbon Dioxide	N.D.	250.	ppm(v)	98		70-130		
Batch number: E0723430A	Sample number(s): 5126044-5126046							
Benzene	N.D.	0.00020	ppm(v)	105	105	53-157	0	20
Toluene	N.D.	0.00020	ppm(v)	114	115	67-138	0	20
Ethylbenzene	N.D.	0.00020	ppm(v)	104	106	57-139	2	20
m/p-Xylenes	N.D.	0.00040	ppm(v)	93	94	56-135	1	20
o-Xylene	N.D.	0.00020	ppm(v)	103	108	57-137	4	20
Naphthalene	N.D.	0.00040	ppm(v)	107	109	1-142	2	20
Batch number: M072271ZA	Sample number(s): 5126044-5126046							
Methane	N.D.	2.0	ppm(v)					

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. # 11964 Group# 1051107 Sample # 5126044-46

COC # 0162915

Please print. Instructions on reverse side correspond with circled numbers.

(1) Client: ARCADIS Acct. #: 00150144445

Project Name/#: CHEVRON 418 Illinois St. / FAC # 1001430 PWSID #:

Project Manager: Rebecca Andresen P.O.#: NWRTB 1001430-0-ALL

Sampler: Al LoRe Quote #:

Name of state where samples were collected: AK

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(6) Preservation Codes (preservation must be noted for analyses requested)

(2) Sample Identification	Date Collected	Time Collected	(3) Matrix: Grab	Composite	Soil	Water	Other	(4) Total # of Containers	(5) Analyses Requested / Preservation Codes: BTEX	NAPHTHALENE	TO-15	O2, CO2, Methane by	ASTM D-1946	Remarks
VP 2 @ 5'	8/9/07	1620	✓				✓	1	✓	✓	✓	✓	✓	
VP 2 @ 8.5'	8/9/07	1423	✓				✓	1	✓	✓	✓	✓	✓	TRACER GAS 1,1 Difluoroethane 75-37-6 Summa Canisters # VP2@8.5'= 0817 VP 2@ 8.5' (DUP)= 0852 VP 2@ 5' = 0416
VP2 @ 8.5' (DUP)	8/9/07	1520	✓				✓	1	✓	✓	✓	✓	✓	

(7) **Turnaround Time Requested** (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: 206-325-8254 Fax #: 206-325-8218
E-mail address: RebeccaAndresen@Arcadis-us.com

(8) **Data Package Options** (please circle if required)
Type I (validation/NJ Reg)
Type II (Tier II)
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)
TX TRRP-13
MA MCP CT RCP
SDG Complete? Yes No
Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
	8/10/07	1000			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Traci Bedard	8/11/07	1015

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102.03

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	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 limit of quantitation, 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.

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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1051108. Samples arrived at the laboratory on Saturday, August 11, 2007. The PO# for this group is 0015014445 and the release number is HARTUNG-FRERICH.

Client Description	Lancaster Labs Number
VP1 @ 5' Grab Air Summa Canister #0855	5126047
VP1 @ 8.5' Grab Air Summa Canister #0507	5126048

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC COPY TO	Blasland, Bouck & Lee	Attn: Rebecca Andresen
ELECTRONIC COPY TO	Arcadis BBL	Attn: Vanessa Varbel
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Richard H. Karam
Group Leader

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. AQ 5126047

VP1 @ 5' Grab Air Summa Canister #0855
Facility# 211815
401 Driveway St-Fairbanks, AK

Collected:08/09/2007 18:46 by AL

Account Number: 11964

Submitted: 08/11/2007 10:15
Reported: 09/06/2007 at 16:14
Discard: 10/07/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

5-VP1 SDG#: ALK67-01

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
07056	Methane	74-82-8	3.7	3.0	ppm(v)	2.4	2.0	mg/m3	2
00015	TO-15 VOA special compounds								
00019	Benzene	71-43-2	0.0025	0.00020	ppm(v)	0.0081	0.00064	mg/m3	1
00020	Toluene	108-88-3	0.045	0.0020	ppm(v)	0.17	0.0075	mg/m3	10
00021	Ethylbenzene	100-41-4	0.0021	0.00020	ppm(v)	0.0089	0.00087	mg/m3	1
00022	m/p-Xylenes	1330-20-7	0.0032	0.00040	ppm(v)	0.014	0.0017	mg/m3	1
00023	o-Xylene	95-47-6	0.0016	0.00020	ppm(v)	0.0070	0.00087	mg/m3	1
00032	Naphthalene	91-20-3	N.D.	0.00040	ppm(v)	N.D.	0.0021	mg/m3	1
	1,1-difluoroethane < 100ppbv								
00034	O2 and CO2 in Air								
00035	Oxygen	7782-44-7	120,000.	3,000.	ppm(v)	160,000.	3,900.	mg/m3	1
00036	Carbon Dioxide	124-38-9	N.D.	250.	ppm(v)	N.D.	450.	mg/m3	1

State of Alaska Lab Certification No. UST-061

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

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07056	Methane	EPA 18 modified	1	08/13/2007 16:40	David I Ressler	2
00015	TO-15 VOA special compounds	EPA TO-15	1	08/22/2007 18:00	Fanella S Zamcho	10
00015	TO-15 VOA special compounds	EPA TO-15	1	08/22/2007 18:45	Fanella S Zamcho	1
00034	O2 and CO2 in Air	ASTM D1946	1	08/27/2007 13:36	Florida A Cimino	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. AQ 5126048

VP1 @ 8.5' Grab Air Summa Canister #0507
Facility# 211815
401 Driveway St-Fairbanks, AK

Collected:08/09/2007 17:28 by AL

Account Number: 11964

Submitted: 08/11/2007 10:15
Reported: 09/06/2007 at 16:14
Discard: 10/07/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

8-VP1 SDG#: ALK67-02*

CAT No.	Analysis Name	CAS Number	As Received Result	MDL	Units	Final Result	Final MDL	Final Units	DF
07056	Methane	74-82-8	N.D.	3.0	ppm(v)	N.D.	2.0	mg/m3	2
00015	TO-15 VOA special compounds								
00019	Benzene	71-43-2	0.022	0.0020	ppm(v)	0.069	0.0064	mg/m3	10
00020	Toluene	108-88-3	0.059	0.0020	ppm(v)	0.22	0.0075	mg/m3	10
00021	Ethylbenzene	100-41-4	0.0099	0.0020	ppm(v)	0.043	0.0087	mg/m3	10
00022	m/p-Xylenes	1330-20-7	0.026	0.0040	ppm(v)	0.11	0.017	mg/m3	10
00023	o-Xylene	95-47-6	0.014	0.0020	ppm(v)	0.062	0.0087	mg/m3	10
00032	Naphthalene	91-20-3	N.D.	0.0040	ppm(v)	N.D.	0.021	mg/m3	10
	1,1-difluoroethane < 100ppbv								
00034	O2 and CO2 in Air								
00035	Oxygen	7782-44-7	79,000.	3,000.	ppm(v)	100,000.	3,900.	mg/m3	1
00036	Carbon Dioxide	124-38-9	N.D.	250.	ppm(v)	N.D.	450.	mg/m3	1

State of Alaska Lab Certification No. UST-061

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

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07056	Methane	EPA 18 modified	1	08/13/2007 17:13	David I Ressler	2
00015	TO-15 VOA special compounds	EPA TO-15	1	08/23/2007 22:59	Fanella S Zamcho	10
00034	O2 and CO2 in Air	ASTM D1946	1	08/27/2007 13:57	Florida A Cimino	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1051108
Reported: 09/06/07 at 04:14 PM

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	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07235FG01	Sample number(s): 5126047-5126048							
Oxygen	N.D.	3,000.	ppm(v)	110		70-130		
Carbon Dioxide	N.D.	250.	ppm(v)	98		70-130		
Batch number: E0723430A	Sample number(s): 5126047							
Benzene	N.D.	0.00020	ppm(v)	105	105	53-157	0	20
Toluene	N.D.	0.00020	ppm(v)	114	115	67-138	0	20
Ethylbenzene	N.D.	0.00020	ppm(v)	104	106	57-139	2	20
m/p-Xylenes	N.D.	0.00040	ppm(v)	93	94	56-135	1	20
o-Xylene	N.D.	0.00020	ppm(v)	103	108	57-137	4	20
Naphthalene	N.D.	0.00040	ppm(v)	107	109	1-142	2	20
Batch number: E0723430B	Sample number(s): 5126048							
Benzene	N.D.	0.00020	ppm(v)	105	105	53-157	0	20
Toluene	N.D.	0.00020	ppm(v)	114	115	67-138	0	20
Ethylbenzene	N.D.	0.00020	ppm(v)	104	106	57-139	2	20
m/p-Xylenes	N.D.	0.00040	ppm(v)	93	94	56-135	1	20
o-Xylene	N.D.	0.00020	ppm(v)	103	108	57-137	4	20
Naphthalene	N.D.	0.00040	ppm(v)	107	109	1-142	2	20
Batch number: M072261ZA	Sample number(s): 5126047-5126048							
Methane	N.D.	3.0	ppm(v)					

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron Generic Analysis Request/Chain of Custody

009066

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11964 Sample #: 512647-48 SCR#:

grp 1051108

Facility #: 211815
Site Address: 410 DRIVEWAY ST. FAIRBANKS AK
Chevron PM: STACY FREICHS Lead Consultant: ARCADIS
Consultant/Office: ARCADIS / SEATTLE WA
Consultant Prj. Mgr.: Rebecca Andresen
Consultant Phone #: 206-325-5254 Fax #: 206-325-8218
Sampler: Al LoRé
Service Order #: 001501444S ~~Non SAR:~~ NWRTB 0211815-0-ALL

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Total Number of Containers	BTEX + MTBE 8021 / 8260 / Naphth	8260 full scan	Oxygenates	TPH G	TPH D (Extended Rng. / Silica Gel Cleanup)	Lead Total (Diss. / Method)	VPH/EPH	NWTPH H HCID (quantification)	BTEX, NAPHTHALENE	TO-15 02, CO2	Methane by ASTM D-1946
VP1 @ 5'	8/9/07	1846	✓				✓											✓	✓	✓
VP1 @ 8.5'	8/9/07	1728	✓				✓											✓	✓	✓
~~VP1 @ 8.5' (DUP)~~	~~8/9/07~~	No Sample	✓				✓			(1)								✓	✓	✓

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
- ☐ Confirm MTBE + Naphthalene
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run ____ oxy's on highest hit
- ☐ Run ____ oxy's on all hits

Comments / Remarks

TRACER GAS
1,1,D:Fluoroethane
75-37-6
summa canister #
VP1 - 8.5' = 0507
VP1 - 8.5' (DUP) = 0838
VP1 - 5' = 0855
Canister # 0838
WAS NO Good
No Vacuum (2)

Turnaround Time Requested (TAT) (please circle)

(STD. TAT)	72 hour	48 hour
24 hour	4 day	5 day

Data Package Options (please circle if required)

QC Summary	Type I - Full
Type VI (Raw Data)	Disk / EDD
WIP (RWQCB)	Standard Format
Disk	_____ Other.

	Date	Time
Relinquished by:	8/10/07	1000
Relinquished by:		
Relinquished by:		
Relinquished by Commercial Carrier: UPS (FedEx) Other _____		
Temperature Upon Receipt NA C°		

	Date	Time
Received by:		
Received by:		
Received by:		
Received by: Traug Bedard	8/11/07	1015
Custody Seals Intact? Yes (No) (NA)		

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	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 limit of quantitation, 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.

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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.

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Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1051109. Samples arrived at the laboratory on Saturday, August 11, 2007. The PO# for this group is 0015014445 and the release number is HARTUNG-FRERICH.

Client Description	Lancaster Labs Number
VP3 @ 5' Grab Air Summa Canister #0005	5126049
VP3 @ 5' (Dup) Grab Air Summa Canister #0887	5126050
VP3 @ 8.5' Grab Air Summa Canister #0415	5126051

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC COPY TO	Blasland, Bouck & Lee	Attn: Rebecca Andresen
ELECTRONIC COPY TO	Arcadis BBL	Attn: Vanessa Varbel
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

Richard H. Karam
Group Leader

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. AQ 5126049

VP3 @ 5' Grab Air Summa Canister #0005
Facility# 306456
328.5 Illinois St-Fairbanks, AK

Collected:08/10/2007 08:20 by AL

Account Number: 11964

Submitted: 08/11/2007 10:15
Reported: 09/06/2007 at 16:18
Discard: 10/07/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

5-VP3 SDG#: ALK68-01

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
07056	Methane	74-82-8	710.	3.0	ppm(v)	470.	2.0	mg/m3	3
00015	TO-15 VOA special compounds								
00019	Benzene	71-43-2	53.	3.0	ppm(v)	170.	9.6	mg/m3	15000
00020	Toluene	108-88-3	38.	0.30	ppm(v)	140.	1.1	mg/m3	1500
00021	Ethylbenzene	100-41-4	1.6	0.30	ppm(v)	7.0	1.3	mg/m3	1500
00022	m/p-Xylenes	1330-20-7	11.	0.60	ppm(v)	49.	2.6	mg/m3	1500
00023	o-Xylene	95-47-6	4.7	0.30	ppm(v)	20.	1.3	mg/m3	1500
00032	Naphthalene	91-20-3	N.D.	0.60	ppm(v)	N.D.	3.1	mg/m3	1500
	1,1-difluoroethane < 100ppbv								
00034	O2 and CO2 in Air								
00035	Oxygen	7782-44-7	18,000.	3,000.	ppm(v)	23,000.	3,900.	mg/m3	1
00036	Carbon Dioxide	124-38-9	N.D.	250.	ppm(v)	N.D.	450.	mg/m3	1

State of Alaska Lab Certification No. UST-061

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

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07056	Methane	EPA 18 modified	1	08/13/2007 17:48	David I Ressler	3
00015	TO-15 VOA special compounds	EPA TO-15	1	08/23/2007 23:47	Fanella S Zamcho	15000
00015	TO-15 VOA special compounds	EPA TO-15	1	08/24/2007 00:33	Fanella S Zamcho	1500
00034	O2 and CO2 in Air	ASTM D1946	1	08/27/2007 16:31	Florida A Cimino	1

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Analysis Report

Lancaster Laboratories Sample No. AQ 5126050

VP3 @ 5' (Dup) Grab Air Summa Canister #0887
Facility# 306456
328.5 Illinois St-Fairbanks, AK

Collected:08/10/2007 09:10 by AL

Account Number: 11964

Submitted: 08/11/2007 10:15
Reported: 09/06/2007 at 16:18
Discard: 10/07/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

5VP3D SDG#: ALK68-02FD

CAT No.	Analysis Name	CAS Number	As Received Result	MDL	Units	Final Result	Final MDL	Final Units	DF
07056	Methane	74-82-8	810.	3.0	ppm(v)	530.	2.0	mg/m3	2
00015	TO-15 VOA special compounds								
00019	Benzene	71-43-2	48.	2.0	ppm(v)	150.	6.4	mg/m3	10000
00020	Toluene	108-88-3	44.	2.0	ppm(v)	170.	7.5	mg/m3	10000
00021	Ethylbenzene	100-41-4	1.4	0.20	ppm(v)	6.3	0.87	mg/m3	1000
00022	m/p-Xylenes	1330-20-7	15.	0.40	ppm(v)	67.	1.7	mg/m3	1000
00023	o-Xylene	95-47-6	7.4	0.20	ppm(v)	32.	0.87	mg/m3	1000
00032	Naphthalene	91-20-3	N.D.	0.40	ppm(v)	N.D.	2.1	mg/m3	1000
	1,1-difluoroethane < 100ppbv								
00034	O2 and CO2 in Air								
00035	Oxygen	7782-44-7	18,000.	3,000.	ppm(v)	24,000.	3,900.	mg/m3	1
00036	Carbon Dioxide	124-38-9	N.D.	250.	ppm(v)	N.D.	450.	mg/m3	1

State of Alaska Lab Certification No. UST-061

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

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07056	Methane	EPA 18 modified	1	08/13/2007 18:22	David I Ressler	2
00015	TO-15 VOA special compounds	EPA TO-15	1	08/24/2007 01:20	Fanella S Zamcho	10000
00015	TO-15 VOA special compounds	EPA TO-15	1	08/24/2007 02:09	Fanella S Zamcho	1000
00034	O2 and CO2 in Air	ASTM D1946	1	08/27/2007 17:07	Florida A Cimino	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. AQ 5126051

VP3 @ 8.5' Grab Air Summa Canister #0415
Facility# 306456
328.5 Illinois St-Fairbanks, AK

Collected:08/10/2007 10:00 by AL

Account Number: 11964

Submitted: 08/11/2007 10:15
Reported: 09/06/2007 at 16:18
Discard: 10/07/2007

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

8-VP3 SDG#: ALK68-03*

CAT No.	Analysis Name	CAS Number	As Received Result	MDL	Units	As Received Final Result	MDL	Units	DF
07056	Methane	74-82-8	1,100.	3.0	ppm(v)	720.	2.0	mg/m3	2
00015	TO-15 VOA special compounds								
00019	Benzene	71-43-2	100.	2.0	ppm(v)	330.	6.4	mg/m3	10000
00020	Toluene	108-88-3	92.	2.0	ppm(v)	340.	7.5	mg/m3	10000
00021	Ethylbenzene	100-41-4	1.4	0.20	ppm(v)	6.1	0.87	mg/m3	1000
00022	m/p-Xylenes	1330-20-7	4.3	0.40	ppm(v)	19.	1.7	mg/m3	1000
00023	o-Xylene	95-47-6	1.8	0.20	ppm(v)	7.6	0.87	mg/m3	1000
00032	Naphthalene	91-20-3	N.D.	0.40	ppm(v)	N.D.	2.1	mg/m3	1000
	1,1-difluoroethane < 100ppbv								
00034	O2 and CO2 in Air								
00035	Oxygen	7782-44-7	72,000.	3,000.	ppm(v)	94,000.	3,900.	mg/m3	1
00036	Carbon Dioxide	124-38-9	N.D.	250.	ppm(v)	N.D.	450.	mg/m3	1

State of Alaska Lab Certification No. UST-061

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

MDL = Method Detection Limit

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07056	Methane	EPA 18 modified	1	08/13/2007 18:52	David I Ressler	2
00015	TO-15 VOA special compounds	EPA TO-15	1	08/24/2007 02:55	Fanella S Zamcho	10000
00015	TO-15 VOA special compounds	EPA TO-15	1	08/24/2007 03:41	Fanella S Zamcho	1000
00034	O2 and CO2 in Air	ASTM D1946	1	08/27/2007 17:34	Florida A Cimino	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1051109
Reported: 09/06/07 at 04:18 PM

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	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07235FG01	Sample number(s): 5126049-5126051							
Oxygen	N.D.	3,000.	ppm(v)	110		70-130		
Carbon Dioxide	N.D.	250.	ppm(v)	98		70-130		
Batch number: E0723430B	Sample number(s): 5126049-5126051							
Benzene	N.D.	0.00020	ppm(v)	105	105	53-157	0	20
Toluene	N.D.	0.00020	ppm(v)	114	115	67-138	0	20
Ethylbenzene	N.D.	0.00020	ppm(v)	104	106	57-139	2	20
m/p-Xylenes	N.D.	0.00040	ppm(v)	93	94	56-135	1	20
o-Xylene	N.D.	0.00020	ppm(v)	103	108	57-137	4	20
Naphthalene	N.D.	0.00040	ppm(v)	107	109	1-142	2	20
Batch number: M072261ZA	Sample number(s): 5126049-5126051							
Methane	N.D.	3.0	ppm(v)					

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron Generic Analysis Request/Chain of Custody

009420

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Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 11964 Sample #: 5126149-51 SCR#:
grp 1051109

Facility #: 306456
Site Address: 325.5 Illinois ST. Fairbanks AK.
Chevron PM: STACY FRERICHS Lead Consultant: ARCADIS
Consultant/Office: ARCADIS / SEATTLE WA
Consultant Prj. Mgr.: Rebecca Andersen
Consultant Phone #: 206-325-5254 Fax #: 206-325-8218
Sampler: Al LoRe
Service Order #: 0015014445 ~~Non SAR~~: @ NWRTB 0306456-0-AIR

Analyses Requested / **Preservation Codes**

Matrix: Soil; Water (☐ Potable ☐ NPDES); Oil ☐ Air ☑

Analyses: BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐; 8260 full scan; Oxygenates; TPH G; TPH D ☐ Extended Rng. ☐ Silica Gel Cleanup; Lead Total ☐ Diss. ☐ Method; VPH/EPH; NWTPH H HCID ☐ quantification; BTEX, NAPHTHALENE; TO-15, O2, CO2; Methane by ASTM D-1946

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil ☐ Air ☑	Total Number of Containers	BTEX, NAPHTHALENE	TO-15, O2, CO2	Methane by	ASTM D-1946
VP3 @ 5'	8/10/07	0820	✓				✓	1	✓	✓	✓	✓
VP3 @ 5' (DUP)	8/10/07	0910	✓				✓	1	✓	✓	✓	✓
VP3 @ 8.5'	8/10/07	1000	✓				✓	1	✓	✓	✓	✓

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks
TRACER GAS
1,1, Difluoroethane
75-37-6

CANISTER #
VP3-5' = 0005
VP3-5' (DUP) = 0887
VP3-8.5' = 0415

Turnaround Time Requested (TAT) (please circle)
(STD. TAT) 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I - Full
Type VI (Raw Data) Disk / EDD
WIP (RWQCB) Standard Format
Disk ________ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	8/10/07	1100			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other ________			Received by: [signature] Bedard	8/11/07	1015
Temperature Upon Receipt NA C°			Custody Seals Intact? Yes No (NA)		

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	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 limit of quantitation, 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.

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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.

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ARCADIS

Appendix C

ADEC Data Review Checklists

Laboratory Data Review Checklist

Completed by: Cynthia Fenter

Title: Project Scientist I Date: Sep 13, 2007

CS Report Name: FAIR 2007 Site Assessment Report Report Date: Nov 15, 2007

Consultant Firm: ARCADIS BBL

Laboratory Name: Lancaster Laboratories Laboratory Report Number: 1049988

ADEC File Number: 102.38.004 ADEC RecKey Number: 1989310912101

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

(●) Yes ( ) No Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

( ) Yes ( ) No Comments:

N/A

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

(●) Yes ( ) No Comments:

b. Correct analyses requested?

(●) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

(●) Yes ( ) No Comments:

3.2 Degrees Celsius

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

(●) Yes ( ) No Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

( ) Yes ( ) No Comments:

N/A

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/ preservation, sample temperature ouside of acceptance range, insufficient or missing samples, etc.?

( ) Yes ( ) No Comments:

N/A

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

(●) Yes ( ) No Comments:

In laboratory notes

b. Discrepancies, errors or QC failures identified by the lab?

(●) Yes ( ) No Comments:

Excessive foaming of GRO sample; Ethanol detected in method blank

c. Were all corrective actions documented?

( ) Yes ( ) No Comments:

N/A

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Normal reporting limits were not attained for GRO samples: SB-1, SB-5, SB-6; Ethanol detected in method blank effect on data quality or usability not reported in case narrative.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(●) Yes ( ) No Comments:

b. All applicable holding times met?

(•) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

(•) Yes ( ) No Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

( ) Yes (•) No Comments:

Benzene - samples SB-1, SB-2, SB-3, SB-4, SB-6; DRO sample SB-4

e. Data quality or usability affected? Explain.

Comments:

Effect on quality unknown; usability affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. All method blank results less than PQL?

( ) Yes (•) No Comments:

Ethanol results higher than PQL

iii. If above PQL, what samples are affected?

Comments:

SB-2, SB-3, SB-4

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

(•) Yes ( ) No Comments:

Data flags are defined in the laboratory notes

v. Data quality or usability affected? Explain.

Comments:

Effect on quality or usability unknown

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

(●) Yes ( ) No Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes (●) No Comments:

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(●) Yes ( ) No Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(●) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

vii. Data quality or usability affected? Explain.

Comments:

No effect on data quality or usability

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

(●) Yes ( ) No Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

○ Yes ◉ No Comments:

Trifluorotoluene-F, Orthoterphenyl, n-Triacontane-d62, Dibromofluoromethane, 1,2-Dichloroethane-d4, Toluene-d8, 4-Bromofluorobenzene.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

◉ Yes ○ No Comments:

Data flags are defined in laboratory notes

iv. Data quality or usability affected? Explain.

Comments:

Effect on data quality or usability unknown

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

○ Yes ◉ No Comments:

ii. All results less than PQL?

○ Yes ○ No Comments:

N/A

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

○ Yes ◉ No Comments:

ii. Submitted blind to lab?

○ Yes ○ No Comments:

N/A

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$RPD\ (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

○ Yes ○ No Comments:

N/A

iv. Data quality or usability affected? Explain.

○ Yes ○ No Comments:

N/A

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ◉ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

N/A

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ○ No Comments:

N/A

Reset Form

Laboratory Data Review Checklist

Completed by: Cynthia Fenter

Title: Project Scientist I Date: Sep 13, 2007

CS Report Name: FAIR 2007 Site Assessment Report Date: Nov 15, 2007

Consultant Firm: ARCADIS BBL

Laboratory Name: Lancaster Laboratories Laboratory Report Number: 1049992

ADEC File Number: 102.38.005 ADEC RecKey Number: 1986310112001

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

(●) Yes ( ) No Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

( ) Yes ( ) No Comments:

N/A

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

(●) Yes ( ) No Comments:

b. Correct analyses requested?

(●) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

(●) Yes ( ) No Comments:

3.2 Degrees Celsius

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

(•) Yes ( ) No Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

( ) Yes ( ) No Comments:

N/A

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/ preservation, sample temperature ouside of acceptance range, insufficient or missing samples, etc.?

( ) Yes ( ) No Comments:

N/A

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

(•) Yes ( ) No Comments:

In laboratory notes

b. Discrepancies, errors or QC failures identified by the lab?

( ) Yes (•) No Comments:

c. Were all corrective actions documented?

( ) Yes ( ) No Comments:

N/A

d. What is the effect on data quality/usability according to the case narrative?

Comments:

N/A

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(•) Yes ( ) No Comments:

b. All applicable holding times met?

(•) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

(•) Yes ( ) No Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

( ) Yes (•) No Comments:

DRO for SB-9, SB-10; Benzene for SB-9, SB-10, SB-11

e. Data quality or usability affected? Explain.

Comments:

Effect on data quality unknown; usability affected

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. All method blank results less than PQL?

(•) Yes ( ) No Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

v. Data quality or usability affected? Explain.

Comments:

N/A

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes ( ) No Comments:

N/A

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

vii. Data quality or usability affected? Explain.

Comments:

N/A

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

(•) Yes ( ) No Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

○ Yes ◉ No Comments:

Trifluorotoluene-F, Orthoterphenyl, n-Triacontane-d62, Dibromofluoroethane, 1,2-Dichloroethane-d4, Toluene-d8, 4-Bromofluorobenzene

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

◉ Yes ○ No Comments:

Data flags are clearly defined in laboratory notes.

iv. Data quality or usability affected? Explain.

Comments:

Effect on quality or usability unknown.

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

◉ Yes ○ No Comments:

ii. All results less than PQL?

◉ Yes ○ No Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

○ Yes ◉ No Comments:

ii. Submitted blind to lab?

○ Yes ○ No Comments:

N/A

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$RPD\ (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

○ Yes ○ No Comments:

N/A

iv. Data quality or usability affected? Explain.

○ Yes ○ No Comments:

N/A

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ◉ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

N/A

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ○ No Comments:

N/A

Reset Form

Laboratory Data Review Checklist

Completed by: Cynthia Fenter

Title: Project Scientist I Date: Sep 13, 2007

CS Report Name: FAIR 2007 Site Assessment Report Report Date: Nov 15, 2007

Consultant Firm: ARCADIS BBL

Laboratory Name: Lancaster Laboratories Laboratory Report Number: 1051108

ADEC File Number: 102.38.005 ADEC RecKey Number: 1986310112001

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

(●) Yes ( ) No Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

( ) Yes ( ) No Comments:

N/A

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

(●) Yes ( ) No Comments:

b. Correct analyses requested?

(●) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

( ) Yes ( ) No Comments:

N/A - Air Sample

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

(•) Yes ( ) No Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

( ) Yes ( ) No Comments:

N/A

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/ preservation, sample temperature ouside of acceptance range, insufficient or missing samples, etc.?

( ) Yes ( ) No Comments:

N/A

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

(•) Yes ( ) No Comments:

In laboratory notes.

b. Discrepancies, errors or QC failures identified by the lab?

( ) Yes ( ) No Comments:

N/A

c. Were all corrective actions documented?

( ) Yes ( ) No Comments:

N/A

d. What is the effect on data quality/usability according to the case narrative?

Comments:

N/A

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(•) Yes ( ) No Comments:

b. All applicable holding times met?

○ Yes ○ No Comments:

N/A

c. All soils reported on a dry weight basis?

○ Yes ○ No Comments:

N/A - Air Sample

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

○ Yes ○ No Comments:

N/A - Air Sample

e. Data quality or usability affected? Explain.

Comments:

N/A

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

◉ Yes ○ No Comments:

ii. All method blank results less than PQL?

◉ Yes ○ No Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

○ Yes ○ No Comments:

N/A

v. Data quality or usability affected? Explain.

Comments:

No effect on data quality or usability

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes ( ) No Comments:

N/A

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

vii. Data quality or usability affected? Explain.

Comments:

No effect on data quality or usability

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

( ) Yes (•) No Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

○ Yes ○ No Comments:

N/A

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

○ Yes ○ No Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

○ Yes ◉ No Comments:

ii. All results less than PQL?

○ Yes ○ No Comments:

N/A

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

○ Yes ◉ No Comments:

ii. Submitted blind to lab?

○ Yes ○ No Comments:

N/A

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$RPD\ (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

○ Yes ○ No Comments:

N/A

iv. Data quality or usability affected? Explain.

○ Yes ○ No Comments:

N/A

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ◉ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

N/A

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ○ No Comments:

N/A

Reset Form

Laboratory Data Review Checklist

Completed by: Cynthia Fenter

Title: Project Scientist I Date: Sep 13, 2007

CS Report Name: FAIR 2007 Site Assessment Report Report Date: Nov 15, 2007

Consultant Firm: ARCADIS BBL

Laboratory Name: Lancaster Laboratories Laboratory Report Number: 1049348

ADEC File Number: 102.38.004 ADEC RecKey Number: 1989310912101

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

(●) Yes ( ) No Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

( ) Yes ( ) No Comments:

N/A

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

(●) Yes ( ) No Comments:

b. Correct analyses requested?

(●) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

(●) Yes ( ) No Comments:

3.5 Degrees Celsius

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

(●) Yes ( ) No Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

( ) Yes ( ) No Comments:

N/A

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/ preservation, sample temperature ouside of acceptance range, insufficient or missing samples, etc.?

( ) Yes ( ) No Comments:

N/A

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

(●) Yes ( ) No Comments:

In laboratory notes

b. Discrepancies, errors or QC failures identified by the lab?

( ) Yes (●) No Comments:

No discrepancies, errors or QC failures identified

c. Were all corrective actions documented?

( ) Yes ( ) No Comments:

N/A

d. What is the effect on data quality/usability according to the case narrative?

Comments:

N/A

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(●) Yes ( ) No Comments:

b. All applicable holding times met?

(●) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

(●) Yes ( ) No Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

(●) Yes ( ) No Comments:

e. Data quality or usability affected? Explain.

Comments:

N/A

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(●) Yes ( ) No Comments:

ii. All method blank results less than PQL?

(●) Yes ( ) No Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

v. Data quality or usability affected? Explain.

Comments:

No effect on quality or usability.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes ( ) No Comments:

N/A

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

vii. Data quality or usability affected? Explain.

Comments:

No effect on quality or usability,

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

(•) Yes ( ) No Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

○ Yes ◉ No Comments:

Trifluorotoluene-F, Trifluorotoluene-P

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

◉ Yes ○ No Comments:

Data flags are clearly defined in laboratory notes.

iv. Data quality or usability affected? Explain.

Comments:

Effect on quality or usability unknown.

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

○ Yes ◉ No Comments:

ii. All results less than PQL?

○ Yes ○ No Comments:

N/A

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

○ Yes ◉ No Comments:

ii. Submitted blind to lab?

○ Yes ○ No Comments:

N/A

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$RPD\ (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

○ Yes ○ No Comments:

N/A

iv. Data quality or usability affected? Explain.

○ Yes ○ No Comments:

N/A

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ◉ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

N/A

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ○ No Comments:

N/A

Reset Form

Laboratory Data Review Checklist

Completed by: Cynthia Fenter

Title: Project Scientist I Date: Sep 13, 2007

CS Report Name: FAIR 2007 Site Assessment Report Report Date: Nov 15, 2007

Consultant Firm: ARCADIS BBL

Laboratory Name: Lancaster Laboratories Laboratory Report Number: 1050289

ADEC File Number: 102.38.004 ADEC RecKey Number: 1989310912101

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

(●) Yes ( ) No Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

( ) Yes ( ) No Comments:

N/A

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

(●) Yes ( ) No Comments:

b. Correct analyses requested?

(●) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

(●) Yes ( ) No Comments:

5.6 and 2.1 Degrees Celsius

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

(•) Yes ( ) No Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

( ) Yes ( ) No Comments:

N/A

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/ preservation, sample temperature ouside of acceptance range, insufficient or missing samples, etc.?

( ) Yes ( ) No Comments:

N/A

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

(•) Yes ( ) No Comments:

In laboratory notes

b. Discrepancies, errors or QC failures identified by the lab?

(•) Yes ( ) No Comments:

Excessive foaming of GRO and BTEX in soil cutting sample.

c. Were all corrective actions documented?

( ) Yes ( ) No Comments:

N/A

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Normal reporting limits were not attained for GRO and BTEX for soil cutting sample.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(•) Yes ( ) No Comments:

b. All applicable holding times met?

(•) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

(•) Yes ( ) No Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

( ) Yes (•) No Comments:

Benzene PQL is not less than SCL for soil cuttings sample

e. Data quality or usability affected? Explain.

Comments:

Effect on quality unknown; usability affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. All method blank results less than PQL?

(•) Yes ( ) No Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

v. Data quality or usability affected? Explain.

Comments:

N/A

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

(●) Yes ( ) No Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

(●) Yes ( ) No Comments:

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(●) Yes ( ) No Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(●) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

vii. Data quality or usability affected? Explain.

Comments:

No effect on data quality or usability.

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

(●) Yes ( ) No Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

○ Yes ◉ No Comments:

For soil sample - Trifluorotoluene-F, Trifluorotoluene-P, Orthoterphenyl.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

◉ Yes ○ No Comments:

Data flags are clearly defined in the laboratory notes.

iv. Data quality or usability affected? Explain.

Comments:

Effect on data quality or usability unknown.

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

○ Yes ◉ No Comments:

ii. All results less than PQL?

○ Yes ○ No Comments:

N/A

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

○ Yes ◉ No Comments:

ii. Submitted blind to lab?

○ Yes ○ No Comments:

N/A

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$RPD\ (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

○ Yes ○ No Comments:

N/A

iv. Data quality or usability affected? Explain.

○ Yes ○ No Comments:

N/A

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ◉ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

N/A

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ○ No Comments:

N/A

Reset Form

Laboratory Data Review Checklist

Completed by: Cynthia Fenter

Title: Project Scientist I Date: Nov 15, 2007

CS Report Name: FAIR 2007 Site Assessment Report Report Date: Nov 15, 2007

Consultant Firm: ARCADIS BBL

Laboratory Name: Lancaster Laboratories Laboratory Report Number: 1051109

ADEC File Number: 102.38.004 ADEC RecKey Number: 1989310912101

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

(●) Yes ( ) No Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

( ) Yes ( ) No Comments:

N/A

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

(●) Yes ( ) No Comments:

b. Correct analyses requested?

(●) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

( ) Yes ( ) No Comments:

N/A - Air Sample

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

(●) Yes ( ) No Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

( ) Yes ( ) No Comments:

N/A

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/ preservation, sample temperature ouside of acceptance range, insufficient or missing samples, etc.?

( ) Yes ( ) No Comments:

N/A

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

(●) Yes ( ) No Comments:

In laboratory notes

b. Discrepancies, errors or QC failures identified by the lab?

( ) Yes (●) No Comments:

No discrepancies, errors or QC failures were identified

c. Were all corrective actions documented?

( ) Yes ( ) No Comments:

N/A

d. What is the effect on data quality/usability according to the case narrative?

Comments:

N/A

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(●) Yes ( ) No Comments:

b. All applicable holding times met?

○ Yes ○ No Comments:

N/A

c. All soils reported on a dry weight basis?

○ Yes ○ No Comments:

N/A

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

○ Yes ○ No Comments:

N/A

e. Data quality or usability affected? Explain.

Comments:

N/A

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

◉ Yes ○ No Comments:

ii. All method blank results less than PQL?

◉ Yes ○ No Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

○ Yes ○ No Comments:

N/A

v. Data quality or usability affected? Explain.

Comments:

No effect on quality or usability

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes ( ) No Comments:

N/A

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

vii. Data quality or usability affected? Explain.

Comments:

No effect on quality or usability.

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

( ) Yes ( ) No Comments:

N/A

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

○ Yes ○ No Comments:

N/A

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

○ Yes ○ No Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

○ Yes ◉ No Comments:

N/A

ii. All results less than PQL?

○ Yes ○ No Comments:

N/A

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

◉ Yes ○ No Comments:

ii. Submitted blind to lab?

○ Yes ◉ No Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$RPD\ (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

○ Yes ○ No Comments:

All relative percent differences are less than 19.5% for mg/m3 and 34% for ppm(v).

iv. Data quality or usability affected? Explain.

○ Yes ○ No Comments:

Effect on quality or usability unknown

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ◉ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

N/A

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ○ No Comments:

N/A

Reset Form

Laboratory Data Review Checklist

Completed by: Cynthia Fenter

Title: Project Scientist I Date: Sep 13, 2007

CS Report Name: FAIR 2007 Site Assessment Report Report Date: Nov 15, 2007

Consultant Firm: ARCADIS BBL

Laboratory Name: Lancaster Laboratories Laboratory Report Number: 1049989

ADEC File Number: 102.38.006 ADEC RecKey Number: 1984310111601

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

(●) Yes ( ) No Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

( ) Yes ( ) No Comments:

N/A

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

(●) Yes ( ) No Comments:

b. Correct analyses requested?

(●) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

(●) Yes ( ) No Comments:

3.2 Degrees Celsius

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

(•) Yes ( ) No Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

( ) Yes ( ) No Comments:

N/A

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/ preservation, sample temperature ouside of acceptance range, insufficient or missing samples, etc.?

( ) Yes ( ) No Comments:

N/A

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

(•) Yes ( ) No Comments:

In laboratory notes

b. Discrepancies, errors or QC failures identified by the lab?

(•) Yes ( ) No Comments:

Excessive foaming of GRO sample

c. Were all corrective actions documented?

( ) Yes (•) No Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Normal reporting limits for GRO were not attained for SB-7

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(•) Yes ( ) No Comments:

b. All applicable holding times met?

(•) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

(•) Yes ( ) No Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

( ) Yes (•) No Comments:

Benzene

e. Data quality or usability affected? Explain.

Comments:

Effect on quality unknown; usability affected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. All method blank results less than PQL?

( ) Yes (•) No Comments:

Ethanol

iii. If above PQL, what samples are affected?

Comments:

SB-7, SB-8

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

( ) Yes (•) No Comments:

v. Data quality or usability affected? Explain.

Comments:

Effect on quality or usability unknown

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes ( ) No Comments:

N/A

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

N/A

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

vii. Data quality or usability affected? Explain.

Comments:

N/A

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

(•) Yes ( ) No Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

○ Yes ◉ No Comments:

Trifluorotoluene-F, Orthoterphenyl, Dibromofluoromethane, 1,2-Dichloroethane-d4, Toluene-d8, 4-Bromofluorobenzene

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

◉ Yes ○ No Comments:

Data flags are clearly defined

iv. Data quality or usability affected? Explain.

Comments:

Effect on quality and usability unknown.

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

○ Yes ◉ No Comments:

ii. All results less than PQL?

○ Yes ○ No Comments:

N/A

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

○ Yes ◉ No Comments:

ii. Submitted blind to lab?

○ Yes ○ No Comments:

N/A

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$RPD\ (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

○ Yes ○ No Comments:

N/A

iv. Data quality or usability affected? Explain.

○ Yes ○ No Comments:

N/A

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ◉ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

N/A

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ○ No Comments:

N/A

Reset Form

Laboratory Data Review Checklist

Completed by: Cynthia Fenter

Title: Project Scientist I Date: Sep 13, 2007

CS Report Name: FAIR 2007 Site Assessment Report Report Date: Nov 15, 2007

Consultant Firm: ARCADIS BBL

Laboratory Name: Lancaster Laboratories Laboratory Report Number: 1051107

ADEC File Number: 102.38.006 ADEC RecKey Number: 1984310111601

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

(●) Yes ( ) No Comments:

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

( ) Yes ( ) No Comments:

N/A

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

(●) Yes ( ) No Comments:

b. Correct analyses requested?

(●) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

( ) Yes ( ) No Comments:

N/A - Air Sample

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

(•) Yes ( ) No Comments:

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

( ) Yes ( ) No Comments:

N/A

d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/ preservation, sample temperature ouside of acceptance range, insufficient or missing samples, etc.?

( ) Yes ( ) No Comments:

N/A

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

(•) Yes ( ) No Comments:

In laboratory notes

b. Discrepancies, errors or QC failures identified by the lab?

( ) Yes ( ) No Comments:

N/A

c. Were all corrective actions documented?

( ) Yes ( ) No Comments:

N/A

d. What is the effect on data quality/usability according to the case narrative?

Comments:

N/A

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(•) Yes ( ) No Comments:

b. All applicable holding times met?

(•) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

( ) Yes ( ) No Comments:

N/A - Air Sample

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

( ) Yes ( ) No Comments:

N/A - Air Sample

e. Data quality or usability affected? Explain.

Comments:

N/A

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. All method blank results less than PQL?

(•) Yes ( ) No Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

v. Data quality or usability affected? Explain.

Comments:

No effect on data quality or usability.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes ( ) No Comments:

N/A

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

( ) Yes ( ) No Comments:

N/A

vii. Data quality or usability affected? Explain.

Comments:

N/A

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

( ) Yes (•) No Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

○ Yes ○ No Comments:

N/A

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

○ Yes ○ No Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

○ Yes ◉ No Comments:

ii. All results less than PQL?

○ Yes ○ No Comments:

N/A

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Data quality or usability affected? Explain.

Comments:

N/A

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

◉ Yes ○ No Comments:

ii. Submitted blind to lab?

○ Yes ◉ No Comments:

iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$RPD\ (\%) = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

○ Yes ○ No Comments:

All relative percent differences are less than 22% for all except Benzene = 59% ppm(v) and 60% mg/m3

iv. Data quality or usability affected? Explain.

○ Yes ○ No Comments:

Effect on data quality or usability unknown

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ◉ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

N/A

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ○ No Comments:

N/A

Reset Form

ARCADIS

Appendix D

Conceptual Site Model

Human Health Conceptual Site Model
Scoping Form

Site Name: 1001430, 211815, 306456

File Number:

Completed by: Michael Strickler

Introduction

The form should be used to reach agreement with the Alaska Department of Environmental Conservation (DEC) about which exposure pathways should be further investigated during site characterization. From this information, a CSM graphic and text must be submitted with the site characterization work plan.

General Instructions: Follow the italicized instructions in each section below.

1. *General Information:*

Sources *(check potential sources at the site)*

- [x] USTs
- [x] ASTs
- [x] Dispensers/fuel loading racks
- [x] Drums
- [ ] Vehicles
- [ ] Landfills
- [ ] Transformers
- [ ] Other: _____

Release Mechanisms *(check potential release mechanisms at the site)*

- [x] Spills
- [x] Leaks
- [x] Direct discharge
- [ ] Burning
- [ ] Other: _____

Impacted Media *(check potentially-impacted media at the site)*

- [x] Surface soil (0-2 feet bgs*)
- [x] Subsurface Soil (>2 feet bgs)
- [x] Air
- [x] Groundwater
- [x] Surface water
- [ ] Other: _____

Receptors (*check receptors that could be affected by contamination at the site)*

- [x] Residents (adult or child)
- [x] Commercial or industrial worker
- [x] Construction worker
- [ ] Subsistence harvester (i.e., gathers wild foods)
- [ ] Subsistence consumer (i.e., eats wild foods)
- [x] Site visitor
- [x] Trespasser
- [ ] Recreational user
- [ ] Farmer
- [ ] Other: _____

* bgs – below ground surface

2. *Exposure Pathways:* *(The answers to the following questions will identify complete exposure pathways at the site. Check each box where the answer to the question is "yes".)*

a) Direct Contact –

1 Incidental Soil Ingestion

Is soil contaminated anywhere between 0 and 15 feet bgs? ☑

Do people use the site or is there a chance they will use the site in the future? ☑

If both boxes are checked, label this pathway complete: Complete

2 Dermal Absorption of Contaminants from Soil

Is soil contaminated anywhere between 0 and 15 feet bgs? ☑

Do people use the site or is there a chance they will use the site in the future? ☑

Can the soil contaminants permeate the skin? (Contaminants listed below, or within the groups listed below, should be evaluated for dermal absorption). ☑

Arsenic	Lindane
Cadmium	PAHs
Chlordane	Pentachlorophenol
2,4-dichlorophenoxyacetic acid	PCBs
Dioxins	SVOCs
DDT	

If all of the boxes are checked, label this pathway complete: Complete

b) Ingestion –

1 Ingestion of Groundwater

Have contaminants been detected or are they expected to be detected in the groundwater, OR are contaminants expected to migrate to groundwater in the future? ☑

Could the potentially affected groundwater be used as a current or future drinking water source? *Please note, only leave the box unchecked if ADEC has determined the groundwater is not a currently or reasonably expected future source of drinking water according to 18 AAC 75.350.* ☑

If both the boxes are checked, label this pathway complete: Complete

2 Ingestion of Surface Water

Have contaminants been detected or are they expected to be detected in surface water OR are contaminants expected to migrate to surface water in the future? ☐

Could potentially affected surface water bodies be used, currently or in the future, as a drinking water source? *Consider both public water systems and private use (i.e., during residential, recreational or subsistence activities).* ☐

If both boxes are checked, label this pathway complete: _____

3 Ingestion of Wild Foods

Is the site in an area that is used or reasonably could be used for hunting, fishing, or harvesting of wild food? ☐

Do the site contaminants have the potential to bioaccumulate (*see* Appendix A)? ☐

Are site contaminants located where they would have the potential to be taken up into biota? (i.e. the top 6 feet of soil, in groundwater that **could be** connected to surface water, etc.) ☐

If all of the boxes are checked, label this pathway complete: _____

c) Inhalation

1 Inhalation of Outdoor Air

Is soil contaminated anywhere between 0 and 15 feet bgs? ☑

Do people use the site or is there a chance they will use the site in the future? ☑

Are the contaminants in soil volatile (*See Appendix B*)? ☑

If all of the boxes are checked, label this pathway complete: Complete

2 Inhalation of Indoor Air

Are occupied buildings on the site or reasonably expected to be placed on the site in an area that could be affected by contaminant vapors? (i.e., within 100 feet, horizontally or vertically, of the contaminated soil or groundwater, <u>or</u> subject to "preferential pathways" that promote easy airflow, like utility conduits or rock fractures) ☑

Are volatile compounds present in soil or groundwater (*See Appendix C*)? ☑

If both boxes are checked, label this pathway complete: Complete

3. Additional Exposure Pathways: *(Although there are no definitive questions provided in this section, these exposure pathways should also be considered at each site. Use the guidelines provided below to determine if further evaluation of each pathway is warranted.)*

Dermal Exposure to Contaminants in Groundwater and Surface Water

Exposure from this pathway may need to be assessed only in cases where DEC water-quality or drinking-water standards are not being applied as cleanup levels. Examples of conditions that may warrant further investigation include:

- Climate permits recreational use of waters for swimming,
- Climate permits exposure to groundwater during activities, such as construction, without protective clothing, or
- Groundwater or surface water is used for household purposes.

Check the box if further evaluation of this pathway is needed: ☐

Comments:

Not Applicable

Inhalation of Volatile Compounds in Household Water

Exposure from this pathway may need to be assessed only in cases where DEC water-quality or drinking-water standards are not being applied as cleanup levels. Examples of conditions that may warrant further investigation include:

- The contaminated water is used for household purposes such as showering, laundering, and dish washing, and
- The contaminants of concern are volatile (common volatile contaminants are listed in Appendix B)

Check the box if further evaluation of this pathway is needed: ☐

Comments:

Not Applicable

Inhalation of Fugitive Dust

Generally DEC soil ingestion cleanup levels in Table B1 of 18 AAC 75 are protective of this pathway, although this is not true in the case of chromium. Examples of conditions that may warrant further investigation include:

- Nonvolatile compounds are found in the top 2 centimeters of soil. The top 2 centimeters of soil are likely to be dispersed in the wind as dust particles.
- Dust particles are less than 10 micrometers. This size can be inhaled and would be of concern for determining if this pathway is complete.

Check the box if further evaluation of this pathway is needed: ☐

Comments:

Not Applicable

Direct Contact with Sediment

This pathway involves people's hands being exposed to sediment, such as during recreational or some types of subsistence activities. People then incidentally **ingest** sediment from normal hand-to-mouth activities. In addition, **dermal absorption of contaminants** may be of concern if people come in contact with sediment and the contaminants are able to permeate the skin (see dermal exposure to soil section). This type of exposure is rare but it should be investigated if:

- Climate permits recreational activities around sediment, and/or
- Community has identified subsistence or recreational activities that would result in exposure to the sediment, such as clam digging.

ADEC soil ingestion cleanup levels are protective of direct contact with sediment. If they are determined to be over-protective for sediment exposure at a particular site, other screening levels could be adopted or developed.

Check the box if further evaluation of this pathway is needed: ☐

Comments:

Not Applicable

4. Other Comments (*Provide other comments as necessary to support the information provided in this form.)*

HUMAN HEALTH CONCEPTUAL SITE MODEL

Site: Former Chevron 1001430,Former Texaco 211815,Former Unocal 306456
418 Illinois St, 410 Driveway St, 328.5 Illinois St
Fairbanks, AK

Completed By: Michael Strickler

Date Completed: October 16, 2007

Follow the directions below. Do not consider engineering or land use controls when describing pathways.

(1)
Check the media that could be directly affected by the release.

(2)
For each medium identified in (1), follow the top arrow and check possible transport mechanisms. Briefly list other mechanisms or reference the report for details.

(3)
Check exposure media identified in (2).

(4)
Check exposure pathways that are complete or need further evaluation. The pathways identified must agree with Sections 2 and 3 of the CSM Scoping Form.

(5)
Identify the receptors potentially affected by each exposure pathway: Enter "C" for current receptors, "F" for future receptors, or "C/F" for both current and future receptors.

Media	Transport Mechanisms	Exposure Media	Exposure Pathways	Current & Future Receptors: Residents (adults or children)	Commercial or industrial workers	Site visitors, trespassers, or recreational users	Construction workers	Farmers or subsistence harvesters	Subsistence consumers	Other
✔ Surface Soil (0-2 ft bgs)	✔ Direct release to surface soil → check soil									
	✔ Migration or leaching to subsurface → check soil									
	✔ Migration or leaching to groundwater → check groundwater									
	✔ Volatilization → check air									
	☐ Runoff or erosion → check surface water									
	☐ Uptake by plants or animals → check biota									
	☐ Other (*list*): 1001430, 211815, 306456	✔ soil	✔ Incidental Soil Ingestion	F	C/F	C/F	F			
			✔ Dermal Absorption of Contaminants from Soil	F	C/F	C/F	F			
✔ Subsurface Soil (2-15 ft bgs)	✔ Direct release to subsurface soil → check soil									
	✔ *Migration to groundwater* → check groundwater									
	✔ *Volatilization* → check air									
	☐ *Other (list):*	✔ groundwater	✔ Ingestion of Groundwater	F	F	F	F			
			✔ Dermal Absorption of Contaminants in Groundwater	F	F	F	F			
			✔ Inhalation of Volatile Compounds in Tap Water	F	F	F	F			
✔ Ground-water	✔ Direct release to groundwater → check groundwater									
	☐ *Volatilization* → check air									
	☐ *Flow to surface water body* → check surface water									
	☐ *Flow to sediment* → check sediment									
	✔ *Uptake by plants or animals* → check biota									
	✔ *Other (list):* Michael Strickler	✔ air	✔ Inhalation of Outdoor Air	F	C/F	C/F	F			
			✔ Inhalation of Indoor Air	F	C/F	C/F	F			
			☐ Inhalation of Fugitive Dust							
✔ Surface Water	✔ Direct release to surface water → check surface water									
	☐ *Volatilization* → check air									
	✔ *Sedimentation* → check sediment									
	✔ *Uptake by plants or animals* → check biota									
	☐ *Other (list):*	✔ surface water	✔ Ingestion of Surface Water							
			☐ Dermal Absorption of Contaminants in Surface Water							
			✔ Inhalation of Volatile Compounds in Tap Water							
✔ Sediment	✔ Direct release to sediment → check sediment									
	✔ *Resuspension, runoff, or erosion* → check surface water									
	✔ *Uptake by plants or animals* → check biota									
	☐ *Other (list):*	☐ sediment	✔ Direct Contact with Sediment							
		✔ biota	☐ Ingestion of Wild Foods							

Revised 3/21/06