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January 31, 2007

Ms. Deborah Williams Alaska Department of Environmental Conservation 610 University Avenue Fairbanks, Alaska 99709

Re: Second Semi-annual 2006 Groundwater Monitoring Report
Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former
Unocal Bulk Plant 306456
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska

Dear Ms. Williams:

On behalf of Chevron Environmental Management Company (Chevron), Blasland, Bouck & Lee (now known as ARCADIS U.S., Inc. [ARCADIS BBL]) has prepared this report to document second semi-annual 2006 sampling activities at former Chevron Bulk Plant 100-430, former Texaco Bulk Plant 21-1815, and former Unocal Bulk Plant 306456 located at 418 Illinois St, 410 Driveway St, and 328 ½ Illinois St., respectively, in Fairbanks, Alaska (**Figure 1**). In addition to groundwater monitoring, this report also contains the results of a well search and an updated conceptual site model.

Site Descriptions

Former bulk plants 1001430, 211815, and 306456 (the site) are located adjacent to one another. The Alaska Railroad (AKRR) has owned the properties since the early 1900's. The sites are located within the Fairbanks Area-Wide Industrial Reclamation (FAIR) Area which is bounded 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.

Site 211815 is located at 410 Driveway Street in Fairbanks, Alaska. Currently the site is leased from the AKRR 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 aboveground storage tanks (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. Twelve 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 Texaco site.

Former Chevron terminal 100-1430 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 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 Chevron site.

Site 306456 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 55,000gallon 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 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) (Figures 2 and 3). 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 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. The gauging data are included in **Tables 1a**, **1b**, and **1c**.

Groundwater Monitoring

Second semi-annual 2006 groundwater monitoring was conducted by OASIS Environmental from September 11 to 17, and September 29, 2006. Wells AR-81, AR-85, MW-1 through MW-5, and MW-7 through MW-10 (Texaco); MW-23, MW-25, TH-1, TH-2, TH-5, TH-7, TH-10, TH-13, TH-17, and TH-18 (Chevron) and; GEI-1 through GEI-12, K-5, K-7, MW-2, MW-4, MW-5, and MW-6 (Unocal); were gauged.

A decontaminated oil-water interface probe was used to gauge the water level and depth to LNAPL, if present. LNAPL was present in well MW-25 (Chevron) with an apparent thickness of 0.13 ft; this well was not purged or sampled. Wells were purged of three casing volumes of water using new disposable polyethylene bailers. Water quality parameters including temperature, pH, electrical conductivity, and turbidity were measured for each purge casing volume and are recorded on groundwater sample field data sheets presented in **Attachment C**.

Groundwater Flow

Depth to groundwater in site wells ranged from 11.53 feet below ground surface (bgs) in well TH-18 (Chevron) to 18.11 feet bgs in well MW-6 (Unocal) (Tables 1a, 1b, and 1c). The Unocal well casing elevations were not surveyed to the same benchmark as the Chevron and Texaco sites, so the Unocal groundwater elevations cannot be compared with the Chevron and Texaco groundwater elevations. Groundwater flow direction was determined using potentiometric maps, one for the Chevron and Texaco sites (Figure 2), and a map of groundwater elevations for the Unocal site (Figure 3). Only a general flow direction could be discerned from the Unocal groundwater elevations, so a potentiometric surface map was not created. Monitoring wells at the three sites will be resurveyed to a common benchmark next spring. The September 2006 potentiometric maps indicate groundwater flow direction is south to southwest (Figures 2 and 3). This is generally consistent with previous observations.

Laboratory Analyses

The samples from the wells were analyzed for:

- Gasoline range organics (GRO) by Alaska Method AK 101;
- Diesel range organics (DRO) by Alaska Method AK 102;
- Residual range organics (RRO) by Alaska Method 103; and
- Benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8021B.

As requested by ADEC, the samples from the two most impacted wells without LNAPL at each site (TH-13 and TH-17 at Chevron, MW-3 and MW-4 at Texaco, and GEI-2 and GEI-11 at Unocal) were sampled for additional contaminants of potential concern (COPCs):

- Methyl tertiary-butyl ether (MTBE) by EPA Method 8021B;
- Polycyclic aromatic hydrocarbons (PAHs) by 8270C;
- 1, 2-dibromoethane (EDB) using EPA Method 8011;
- Eight RCRA metals by EPA Methods 7470A (mercury only) and 6010B; and
- Seven volatile organic compounds (VOCs) by EPA Method 8260B.

Analytical Results

Samples from wells MW-23, TH-10, and TH-7 (Chevron); AR-81, AR-85, MW-1, and MW-9 (Texaco); and MW-2, MW-4, and K-7 (Unocal) did not contain any of the target analytes at concentrations exceeding ADEC Table C groundwater cleanup levels (GCLs).

Concentrations of GRO, DRO, RRO, and BTEX, and were greater than ADEC GCLs at each of the three sites. EDB concentrations were greater than the applicable ADEC GCL in samples from the Unocal site. None of the samples from the Chevron and Texaco sites collected during this event exceeded ADEC GCLs for PAHs, the seven VOCs by 8260B, EDB, or RCRA metals with exception of lead in Texaco well MW-4 and trichloroethene (TCE) in Texaco well MW-4. None of the samples from the Unocal site

collected during this event exceeded ADEC GCLs for PAHs or six of the seven VOCs by 8260B (the EDB GCL was exceeded). MTBE was only detected in Texaco well MW-4 at a concentration of 220 micrograms per liter (μ g/L); however, there is not a GCL for this compound.

In general, the analytical results are consistent with historical groundwater monitoring results. The dissolved-phase concentrations of petroleum hydrocarbons appear to be stable or decreasing at the three sites. Tables 2a, 2b, 2c, 3, and 4 summarize analytical results.

Laboratory Data Quality Assurance Summary

As required by ADEC (Technical Memorandum 06-002, dated October 9, 2006), ARCADIS BBL completed a laboratory data review checklist for each of the Lancaster laboratory reports from the second semi-annual groundwater monitoring event. The laboratory reports are included as **Attachment A**. The data review checklists are attached as **Attachment B**. 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, the data meet precision objectives. Five groundwater field duplicate samples were collected and the analytes were within RPD limits, except for DRO in MW-5 which had a RPD of 59 % which is greater than the specified 30 %.
- 2. Accuracy The data meet accuracy objectives as indicated by the laboratory quality control samples, which were within method/laboratory limits. The surrogate recoveries outside the specifications were confirmed unless attributed to dilution. Analytes were not detected in the three trip blanks collected during groundwater monitoring.
- 3. Representativeness The data appear to be representative of site conditions and are generally consistent with historical groundwater monitoring results and expected impacts to groundwater.
- 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 ADEC GCLs with the exception of several compounds (PAHs and EDB) with low cleanup levels (1 μg/L or less), and RRO and benzene in several of the Unocal wells. The RRO and benzene MDLs were raised because the laboratory diluted the samples to prevent contamination of their instruments.

Purge Water Disposal

Purge water generated during well sampling and equipment cleaning was pumped into DOT-approved 30-gallon drums onsite for temporary storage. The purge water drums were sampled and a composite sample was submitted to Lancaster Laboratories. Following receipt of the composite result, the Chevron and Texaco purge water was re-sampled and submitted for analysis. The local waste water treatment plant (WWTP) reviewed the results and agreed to accept the purge water (with exception of the four drums of Unocal wastewater) per the facility NPDES permit requirements. However, the purge water froze prior to receipt of the second set of laboratory results. Once the drums thaw, the accepted water (Chevron and Texaco) will be transported to the Golden Heart Utilities WWTP in Fairbanks for supervised disposal. ARCADIS BBL is currently coordinating the transport of the Unocal purge water to Emerald Alaska in Anchorage, Alaska for disposal, as approved by ADEC.

Well Search

As requested by ADEC, a water resources questionnaire was sent to properties located within 1,000 feet of the sites. A drive-by well survey was also conducted in September 2006. Several possible well boxes were identified. Possible well boxes, identified in the drive-by survey but not in the questionnaire, were located at 345 Brandt St, 302 Boundary St, Minnie St and Good St, and Monroe Catholic High School. The Fairbanks North Star Borough Property Database website was used to identify the property addresses and owners within the 1,000-ft radius. One hundred and ninety-seven addresses were identified, and letters were sent to each. Only fifty-three questionnaires were returned. It appeared that many of the addresses were duplicates, i.e. one person owned two or more adjoining properties with only one mail receptacle for the two properties. Of the fifty-three questionnaires returned, a total of 12 wells were identified. Only two of the wells are currently in use, and both are located crossgradient and are used for irrigation. Most surveys said that municipally-supplied drinking water was in use; hydrants and water meters were also observed throughout the area during the drive-by search. Golden Heart Utilities identified monitoring wells on their properties; however, these are not included in the summary below. Numerous monitoring wells are known to exist within 1,000-ft of the site(s), which are part of a larger industrial remediation area. The results of the well search are summarized in the Tables below.

Table A: Summary of Well Questionnaire Responses

Number Sent	Number of Responses	Responses - no well on property	Number of wells Identified
197	53	37	12 (16 surveys)

Table B: Summary of Identified Wells

Property Address	Well Use	In use	Total depth (feet)	Approximate location relative to site
316 Minnie St	Irrigation	No	Unknown	0.1 mile crossgradient (east)
508 Monroe St	None	No	Unknown	0.1 mile crossgradient (east)
1016 & 1005 Pioneer Rd	None – Dry	No	Unknown	0.1 mile downgradient (south)
346 Minnie St	Irrigation	No	Unknown	0.1 mile crossgradient (east)
1008 Pioneer Rd	Irrigation	No	25 ft	0.1 mile downgradient (south)
366 Slater St	Irrigation	Yes	Unknown	0.1 mile crossgradient (east)
345 Church St	Irrigation	Pump not currently working	Unknown	0.1 mile crossgradient (east)
301 Slater St	Irrigation	No	Unknown	0.1 mile crossgradient (east)
815, 803 & 801 Pioneer Rd	Irrigation	No	Shallow	0.1 mile downgradient (south)
345 Minnie St	Irrigation	Yes	Unknown	0.1 mile crossgradient (east)
1002 Pioneer Rd	Other	No	Unknown	0.1 mile downgradient (south)
504 Monroe St	Irrigation, Domestic Washing & Bathing	No	Unknown	0.1 mile crossgradient (east)

The returned well survey letters are included as Attachment D.

Conceptual Site Model

As requested by ADEC the conceptual site model (CSM) has been updated. The sources of the releases at the site include ASTs, piping, loading racks, dispenser pumps, drums, and offsite sources. The mechanisms of the release of petroleum hydrocarbons into the subsurface include leaks, spills, and direct discharge. The groundwater and soil at the site has been impacted with petroleum hydrocarbons. The sites are a part of the FAIR Area, which is primarily industrial, and has a regional groundwater contamination issue.

Outdoor air and indoor air could potentially be impacted by volatilization of petroleum located in the subsurface soil and groundwater. Inhalation of outdoor and inhalation of indoor air are potentially complete pathways. The Chena River is located downgradient of the site, but there is no evidence that it has been impacted.

Potential onsite receptors include commercial or industrial workers, construction workers, site visitors, and site trespassers. Potentially complete pathways include incidental soil ingestion, dermal absorption of contaminants from soil, ingestion of groundwater, dermal absorption of contaminants in groundwater, inhalation of volatile compounds in household water, and inhalation of indoor and outdoor air. The sites are partially paved, so direct contact with soil would primarily be an issue during construction activities.

The CSM figures are included as Attachment E.

Conclusions

During the second semi-annual 2006 event, concentrations of GRO, DRO, RRO, BTEX, and EDB (Unocal only) were greater than ADEC GCLs at each of the three sites. These analytical results are consistent with historical data. LNAPL was only detected in one well. The metals (arsenic, chromium, and possibly lead) and TCE detected in samples from site wells may be related to regional groundwater impacts (TCE) or regional hydrogeology (metals), rather than former site operations. Monthly LNAPL gauging and recovery will continue.

ARCADIS BBL is currently drafting institutional controls for groundwater and soil for each of the three sites and will submit these to ADEC for review under separate cover.

Recommended Sampling Schedule

ARCADIS BBL reviewed the current groundwater sampling schedule and dissolved constituent trends in groundwater monitoring wells. ARCADIS BBL recommends sampling several of the Unocal and Chevron wells on an annual basis rather than a semi-annual basis. These wells are located between upgradient and downgradient wells or are not impacted (K-7 and MW-4).

The table below reflects the current groundwater sampling schedule:

Site	Semi-annual	Annual
Chevron	MW-23, MW-25, TH-1,	TH-7, TH-17, and
	TH-2, TH-5, TH-10, and	TH-18
	TH-13	
Texaco	AR-81, AR-85, MW-1	
	through MW-5, and	
	MW-7 through MW-10	
Unocal	GEI-1, GEI-2, GEI-3,	GEI-4, GEI-8, GEI-
	GEI-5, GEI-6, GEI-7,	9, K-7, MW-4
	GEI-10, GEI-11, GEI-12,	
	K-5, MW-2, MW-5, and	
	MW-6	

Notes: (1) Semi-annual sampling is performed in March/September (2) Annual sampling is performed in September

COPC screening will be conducted at the Unocal site for one additional quarter. The COPC screening has been completed at the Chevron and Texaco sites. At these sites, the COPC data shows PAHs, EDB, and Mercury were not detected or were detected at concentrations less than applicable GCLs. ARCADIS BBL recommends eliminating the following analyses from sampling at the Chevron and Texaco sites:

- PAHs by 8270C;
- EDB using EPA Method 8011; and
- Mercury by EPA Methods 7470A.

A PDF file of this document and an electronic copy of the laboratory deliverables will be emailed to you. Should you have any questions or comments regarding this report, please feel free to contact ARCADIS BBL at 206.325.5254 extension 1017.

Sincerely,

Blasland, Bouck & Lee, Inc.

Barbara Orchard

Project Engineer in Training

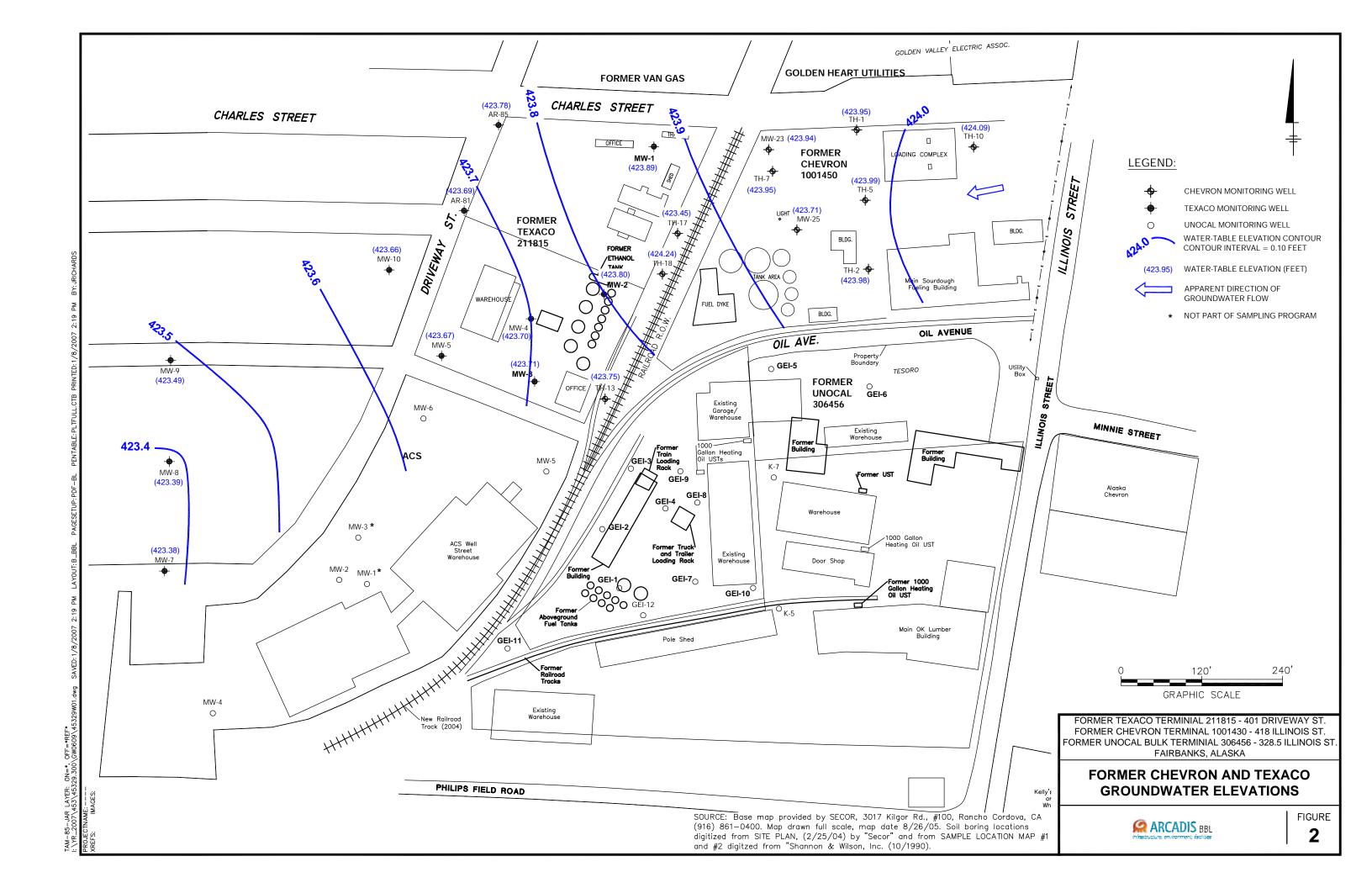
Rebecca Andresen Senior Geologist I

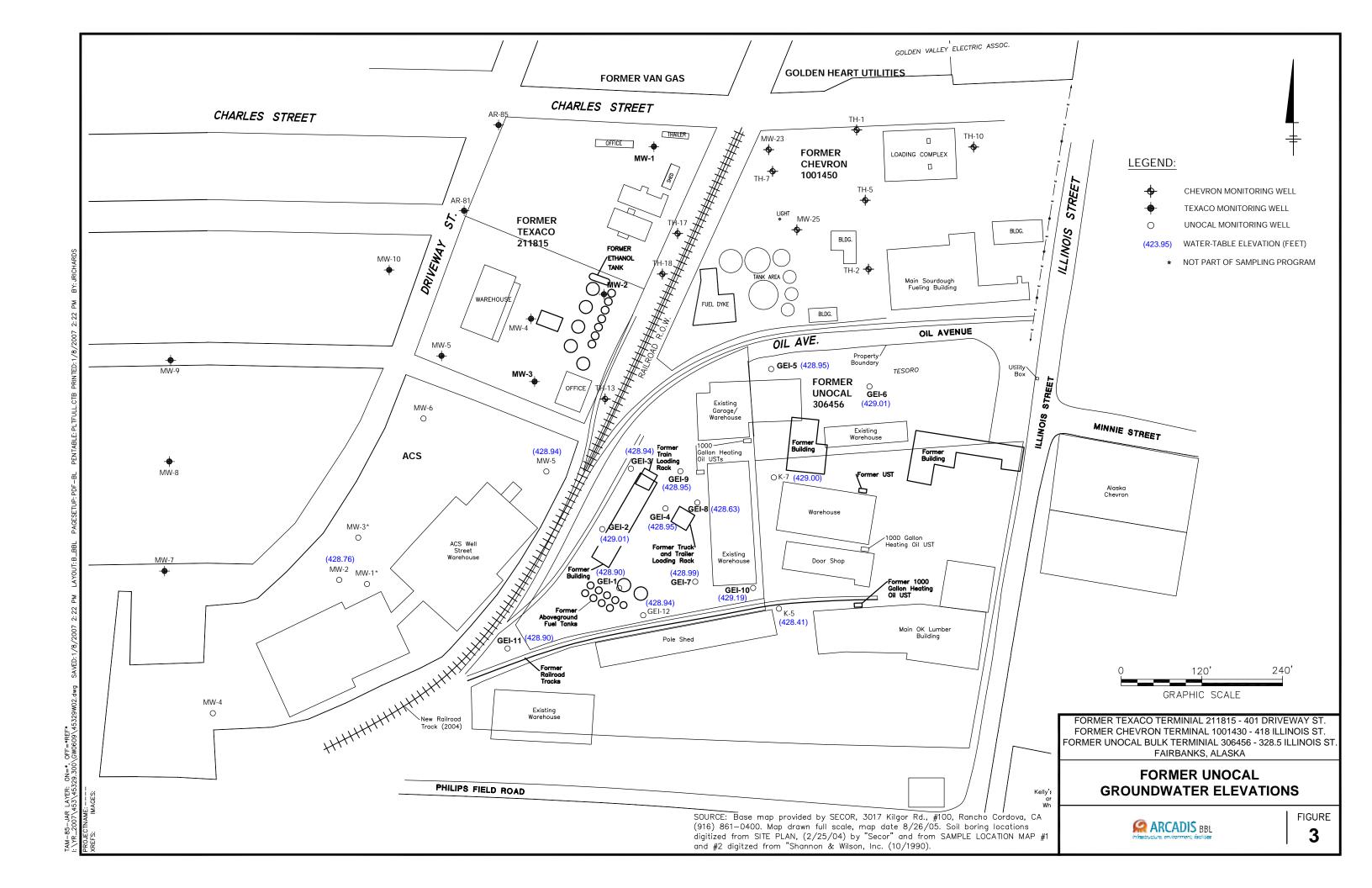
Enclosures

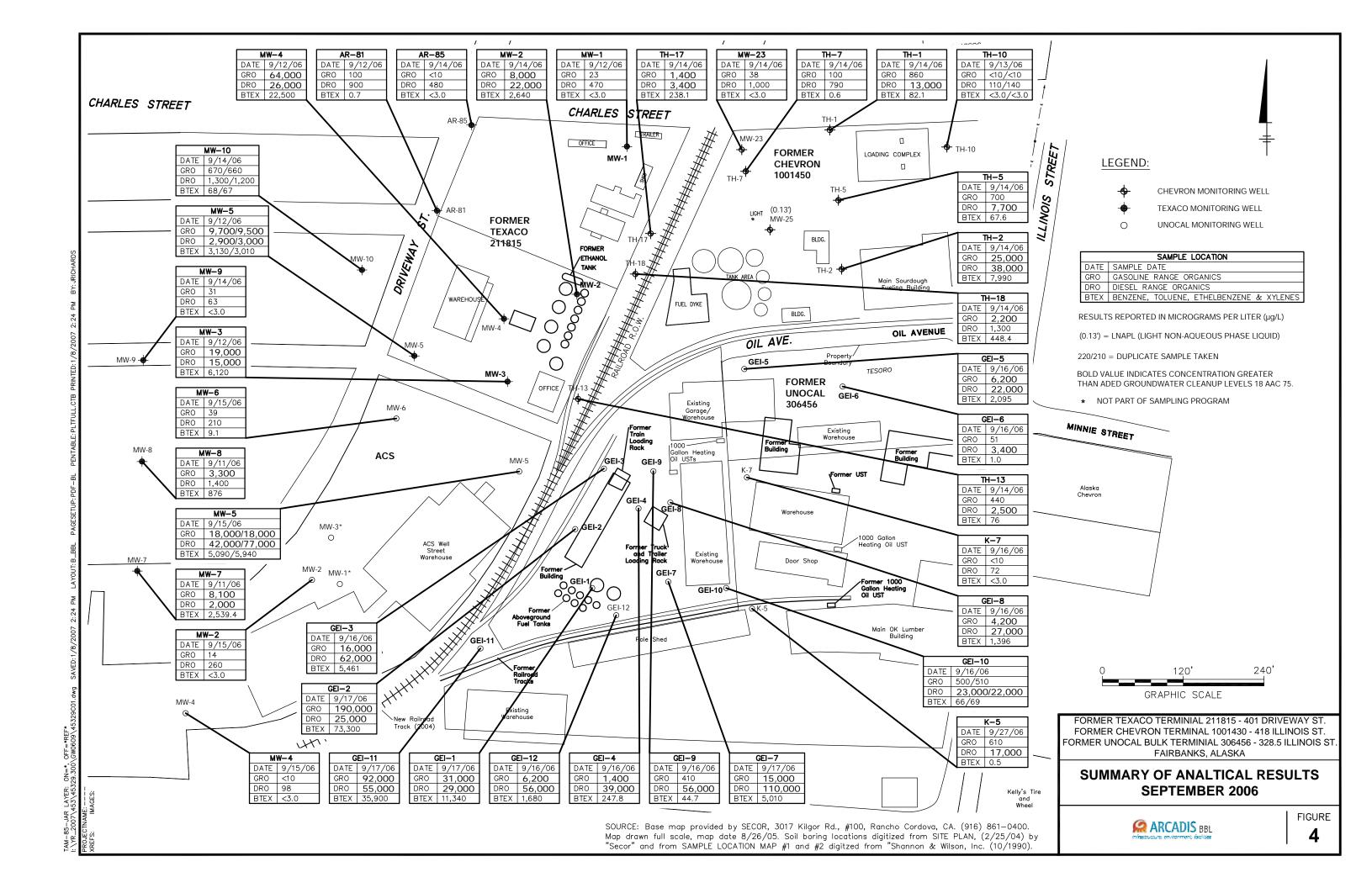
cc: Stacie Hartung-Frerichs, Chevron Environmental Management Company, San Ramon, California Susan Schrader, Alaska Railroad Corp., P.O. Box 107500, Anchorage, AK 99510-7500

Figures









Tables



Table 1a Groundwater Elevation Data

Former Chevron 100-1430 418 Illinois Fairbanks, Alaska

		Well	Depth to	Depth to	Groundwater
	Date	Elevation	Water	LNAPL	Elevation ¹
Well	Sampled	(fasl)	(feet from TOC)	(feet)	(fasl)
TH-1	06/24/02	440.41	17.80	(icet)	422.61
1111-1	09/25/02	440.41	15.46		424.95
	04/29/03		17.95		424.95
	09/03/03		14.99		425.42
	03/10/04		18.06		423.42
	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
TH-2	06/24/02	438.68	frozen		na
	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	0.1	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
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 de	ecommission	ed for railroad cor	nstruction on a	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
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
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

Table 1a **Groundwater Elevation Data**

Former Chevron 100-1430 418 Illinois Fairbanks, Alaska

		Well	Depth to	Depth to	Groundwater
	Date	Elevation	Water	LNAPL	Elevation ¹
Well	Sampled	(fasl)	(feet from TOC)	(feet)	(fasl)
TH-13	06/24/02	436.74	13.09		423.65
1H-13		436.74			
	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, mo	
	09/14/06		12.99		423.75
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				
	09/08/05		11.87		423.51
	04/20/06				
	09/14/06		11.93		423.45
TH-18	06/24/02	435.77	frozen		na
	09/25/02		11.01		424.76
	04/29/03		frozen		na
	09/03/03		10.48		425.29
	03/10/04		13.61		422.16
	09/23/04		N/A		N/A
	04/19/05				
	09/08/05		12.28		423.49
	04/20/06				
	09/14/06		11.53		424.24
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
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
		<u> </u>			.==: : -

Notes:
TOC = Top of casing
fasl = feet above sea level

ITASI = feet above sea level

N/A = Not applicable

LNAPL = Light non-aqueous phase liquid

Bold Type = Results of most recent sampling event

'Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.

Table 2a Groundwater Analytical Data

Former Chevron 100-1430 418 Illinois Fairbanks, Alaska

				1			1	
								Total
Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Xylenes
ADEC	GCL:	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
TH-2	06/24/02							
	09/25/02	38,900	15,300		1,540	5,220	1,030	6,600
	04/29/03			LNAPL	present - w	ell not samp		
	09/03/03	37,000	190,000	150,000	730	3800	860	6,600
	03/10/04			LNAPL pre	sent - 0.02'	- well not s	ampled	
	09/15/04			LNAPL pre	sent - 0.04'	 well not s 	ampled	
	04/19/05			LNAPL pre	esent - 0.1' -	well not sa	ampled	
	09/08/05			LNAPL pre	sent - 0.03'	 well not s 	ampled	
	04/20/06			LNAPL pre	sent - 0.11'	- well not s	ampled	
	09/14/06	25,000	38,000	44,000	560	630	1,000	5,800
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
		,		ommissione		d construct	ion on 8/19/2004	
TH-5	06/24/02	1,100	34,500		6.05	1.45	18.3	98.1
	09/25/02	1,100	0 1,000	I NAPI	present - w			00.1
	04/29/03				present - w			
	09/03/03				present - w			
	03/10/04				sent - 0.03'			
	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 pre	sent - 0.02'	- well not s	ampled	
	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
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
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
	03/10/04	10	290	990	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5
	09/15/04 ^D							
	09/15/04	<10	220	1,100	<0.5	<0.5	<0.5	<1.5
		<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

Table 2a Groundwater Analytical Data

Former Chevron 100-1430 418 Illinois Fairbanks, Alaska

	_				_			Total
Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Xylenes
ADEC		1,300	1,500	1,100	5.0	1,000	700	10,000
TH-10	9/8/2005 ^D	<10	220	1,400	<0.5	<0.5	<0.5	<1.5
(cont.)	04/20/06	<10	1,100	5,500	<0.5	<0.5	<0.5	<1.5
	4/20/2006 ^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
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 09/14/06	440	2,500	110	59	0.6	nument filled 4.4	12
TH-17								
IH-17	06/24/02	1,820	10,500		175	<2.50	104	234 269
	09/25/02 04/29/03	2,860	8,900 23.000	6,900	198 57	6.32 9.5	105 270	269 860
	04/29/03	5,000 1,800	36,000	25,000	170	9.5 2.5	120	220
	03/10/04	1,200	44,000	10,000	170	3.5	79	150
	09/15/04	780	81,000	24.000	5.2	3.4	44	97
	04/19/05	700		,			nument filled	31
	09/08/05	990	8,900	4,100	13	2.0	49	140
	04/20/06	000					nument filled	
	09/14/06	1,400	3,400	1,500	16	2.1	70	150
TH-18	06/24/02							
	09/25/02	1,930	4,730		277	<5.00	70.5	139
	04/29/03			Well F	rozen - wel	not sample	ed	
	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						nument filled	
	09/08/05	1,300	1,400	510	56	2	71	140
	04/20/06 09/14/06	2 200		not sampled	s - buried un	aer ice, mo	nument filled 130	230
		2,200	1,300	<90				
MW-23	06/25/02	<50.0	1,370		0.230	<0.500	<0.500	<1.00
	09/25/02	<80.0	2,800	000	<0.500	<0.500	0.522	1.05
	04/29/03	48 77	2,800	800 660	0.6	<0.5	<0.5	<1.5
	09/03/03 03/10/04	77 26	1,100 22,000	5,800	<0.5 <0.5	<0.5 <0.5	3.2 <0.5	2.3 <1.5
	03/10/04	31	9,300	2,600	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5
	04/19/05	34	9,900	580	<0.5	<0.5	<0.5 <0.5	<1.5 <1.5
	09/08/05	31	1,000	580	<0.5	<0.5	<0.5	<1.5
	04/20/06	01	1,000		ampled - m		l l	11.0
	09/13/06	38	1,000	440	<0.5	<0.5	<0.5	<1.5
MW-25	06/25/02				present - w			
20	09/25/02				present - w			
	04/29/03				present - w			
	09/03/03				present - w			
	03/10/04				sent - 0.05'			
	09/15/04				sent - 0.15'			
	04/19/05							
	0-7/10/00	LNAPL present - 0.16' - well not sampled LNAPL present - 0.13' - well not sampled						
	09/08/05			LNAPL pre	sent - 0.13'	- well not s	ampled	
				•	sent - 0.13' sent - 0.15'		•	

Table 2a **Groundwater Analytical Data**

Former Chevron 100-1430 418 Illinois Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC	GCL:	1,300	1,500	1,100	5.0	1,000	700	10,000
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

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.

= Duplicate sample

Table 1b Groundwater Elevation Data

Former Texaco 21-1815 401 Driveway Street Fairbanks, Alaska

			banks, Alaska		
	. .	Well	Depth to	Depth to	Groundwater
Well	Date	Elevation	Groundwater	LNAPL	Elevation ¹
ID	Sampled	(fasl)	(feet from TOC)	(feet)	(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
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 Re	emoved from	Sampling Progran	n in September 20	003
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			Beneath Snow ba	
	09/16/04		14.68		422.55
	04/19/05		Well buried a	nd surrounded by	equipment
	09/07/05		13.79	1	423.44
	04/20/06		15.61		421.62
	09/12/06		13.45		423.78
MW-1	10/23/03	436.36	12.28		424.08
10100-1	03/10/04	430.30	14.14		422.22
	09/16/04		13.72		422.64
	04/19/05		_	I Beneath Snow ba	
	09/07/05		12.77		423.59
	04/20/06			ı ınd surrounded by	
	09/12/06		12.47		423.89
MW-2		427.06	13.35		423.71
IVI VV-Z	10/23/03 03/10/04	437.06		0.04	423.71
	03/10/04		14.89	0.04	_
	04/19/05		14.51	0.03	422.57 421.67
			15.47	0.10	
	09/07/05		13.58	Į.	423.49
	04/20/06 08/11/06		13.85	- covered with sno 0.01	423.22
	09/12/06		13.26	0.01	423.22 423.80
	12/01/06		14.56		423.50
	12/01/06		14.80		422.26
B 414 * *		40= :-			
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
	00/40/00				
	09/12/06		13.78		423.71
MW-4	09/12/06 10/22/03	437.33	13.78 13.70	 Present	423.71 423.63
MW-4		437.33		Present 0.23	
MW-4	10/22/03	437.33	13.70 15.25 14.85	0.23 0.03	423.63 422.26 422.50
MW-4	10/22/03 03/10/04	437.33	13.70 15.25 14.85	0.23	423.63 422.26 422.50
MW-4	10/22/03 03/10/04 09/16/04 04/19/05	437.33	13.70 15.25 14.85 well not sample	0.23 0.03	423.63 422.26 422.50 ce, monument
MW-4	10/22/03 03/10/04 09/16/04	437.33	13.70 15.25 14.85 well not sample filled 13.92	0.23 0.03 d - covered with id	423.63 422.26 422.50 ce, monument
MW-4	10/22/03 03/10/04 09/16/04 04/19/05	437.33	13.70 15.25 14.85 well not sample filled	0.23 0.03 d - covered with id d with ice and wat	423.63 422.26 422.50 ce, monument er
MW-4	10/22/03 03/10/04 09/16/04 04/19/05 09/07/05	437.33	13.70 15.25 14.85 well not sample filled 13.92	0.23 0.03 d - covered with idd with ice and wate	423.63 422.26 422.50 ce, monument er 423.41
MW-4	10/22/03 03/10/04 09/16/04 04/19/05 09/07/05 04/20/06	437.33	13.70 15.25 14.85 well not sample filled 13.92 15.74	0.23 0.03 d - covered with idd with ice and wate	423.63 422.26 422.50 ce, monument er 423.41 421.85
MW-4	10/22/03 03/10/04 09/16/04 04/19/05 09/07/05 04/20/06 08/11/06	437.33	13.70 15.25 14.85 well not sample filled 13.92 15.74 14.19	0.23 0.03 d - covered with id d with ice and wat 	423.63 422.26 422.50 ee, monument er 423.41 421.85 423.14

Table 1b **Groundwater Elevation Data**

Former Texaco 21-1815 401 Driveway Street Fairbanks, Alaska

		Well	Depth to	Depth to	Groundwater		
Well	Date	Elevation	Groundwater	LNAPL	Elevation ¹		
ID	Sampled	(fasl)	(feet from TOC)	(feet)	(fasl)		
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		
			well not sample	d - covered with ic	e and ponded		
	04/19/05			water			
	09/07/05		13.01		423.36		
			well not sample	d - covered with ic	e and ponded		
	04/20/06		water				
	09/12/06		12.70		423.67		
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		
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		
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		
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		

Notes:

TOC = Top of casing

fasl = feet above sea level

N/A = Not applicable

LNAPL = Light non-aqueous phase liquid

"Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.
Bold Type = Results of most recent sampling event

Table 2b Groundwater Analytical Data

Former Texaco 21-1815 401 Driveway Street Fairbanks, Alaska

	_				_			
Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	
ADEC		1,300	1,500	1,100	5.0	1,000	700	10,000
AR-81	06/25/02	<50.0 212	1,130		0.920	<0.500 2.11	0.520 5.14	<1.00 8.95
	09/24/02 04/29/03	150	4,550 2,300	1,000	7.56 2.5	<0.5	5.14	6.95 1.8
	09/03/03	140	2,000	2,400	3.1	<0.5	1.6	2.8
	03/10/04	140	2,000	2,400	Well Froze		1.0	2.0
	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
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 Remo	ved from S	ampling Pro	gram in Se	ptember 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 I	Beneath Sn	ow 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		W	ell buried ar	nd surround	ed by equip	ment	
	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
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	d - buried sr	ow/ice (no	access)	
	09/07/05	32	870	410	<0.5	<0.5	<0.5	<1.5
	04/20/06		•		overed with		1	
	09/12/06	23	470	210	<0.5	<0.5	<0.5	<1.5
MW-2	10/23/03	48,000	40,000		2,000	6,000	960	6,000
	03/10/04				0.04' - well i			
	09/16/04				0.03' - well i			
	04/19/05				0.1' - well n			
	09/07/05				0.01' - well i			
	04/20/06	0.000			- covered w			4 200
	09/12/06	8,000	22,000	<500	710	350	280	1,300
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 1,400	600	340	2,100
	09/07/05 04/20/06	17,000 19,000	24,000 15,000	2,900 <500	1,400	1,200 960	330 500	2,400 3,100
	09/12/06	19,000 19,000	15,000 15,000	< 490	1,400	1,000	520	3,100
NAVA 4		10,000	10,000				320	3,200
MW-4	10/22/03				L - well not	•	4	
]	03/10/04				0.23' - well i			
	09/16/04 04/19/05	וופוע	not sampled		0.03' - well i		a d with ice and w	ater
	04/19/05	68,000	98,000	•	3,200		1,300	10,000
]	04/20/06	00,000	30,000		0.32' - well			10,000
	09/12/06	64.000	26,000	<980	3,300	8,200	1,400	9,600
	03/12/00	07,000	20,000	\300	3,300	0,200	1,-100	3,000

Table 2b **Groundwater Analytical Data**

Former Texaco 21-1815 401 Driveway Street Fairbanks, Alaska

Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Xylenes
ADEC	GCL:	1,300	1,500	1,100	5.0	1,000	700	10,000
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 - c	overed with	ice and po	nded 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
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
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
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
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
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		Trave	l Blank sub	mitted unde	r COC for 1	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

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 1c Groundwater Elevation Data

Former Unocal 306456 328.5 Illinois Street Fairbanks, Alaska

	ı	Well	Donth to	Donth to	Groundwater
	Data		Depth to	Depth to	Groundwater
\A/=!I	Date	Elevation ¹	Water	LNAPL	Elevation ²
Well	Sampled	(fasl)	(feet from TOC)	(feet)	(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 ³
	04/18/06				
	09/17/06		14.98		428.90
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				3
	09/17/06		15.92		429.01
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				3
	10/01/05		14.55		429.74
	04/18/06		17.45		426.84
	09/16/06		15.35		428.94
GEI-4	10/07/02	444.56	15.68	0.67	429.42
<u> </u>	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
GEI-5	10/07/02	441.93	12.35		429.58
GLI-5	09/03/03	441.93	11.11		430.82
	04/23/04				-30.02
			14.26		427.67
	09/16/04				
	04/20/05		15.24		426.69
	10/01/05		12.23		429.7 ³
	04/18/06				
	09/16/06		12.98		428.95
GEI-6	10/07/02	441.83	12.2		429.63
	09/03/03		10.94		430.89
	04/23/04				3
	09/16/04		14.15		427.68
	04/20/05				3
	10/01/05		12.09		429.74
	04/18/06				 3
	09/16/06		12.82		429.01
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				3
	09/17/06		15.27		428.99
<u> </u>					3.00

Table 1c **Groundwater Elevation Data**

Former Unocal 306456 328.5 Illinois Street Fairbanks, Alaska

		Well	Depth to	Depth to	Groundwater
	Date	Elevation ¹	Water	LNAPL	Elevation ²
Well	Sampled	(fasl)	(feet from TOC)	(feet)	(fasl)
GEI-8	09/03/03	444.55	13.64		430.91
0 0	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
GEI-9	09/03/03	444.32	13.43	0.01	430.90
OLI-3	04/23/04	444.02	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
GEI-10		440.40			
GEI-10	10/01/05 04/1806	443.48	13.74 16.73		429.74 426.75
	09/16/06		16.73 14.29		426.75 429.19
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
GEI-12	10/01/05	443.55	13.72		429.83
	04/1806		16.71		426.84
	09/16/06		14.61		428.94
MW-2	10/01/05	444.07	14.43		429.64
	04/1806		17.47		426.60
	09/15/06		15.31		428.76
MW-4	10/01/05	NS			
	04/1806		20.63		
	09/15/06		18.48		
MW-5	10/01/05	444.05	14.3		429.75
	04/1806	111.00	17.33		426.72
	09/15/06		15.11		428.94
MW-6	10/01/05	NS			3
IVI VV-O	10/01/05	INS			3
	04/1806		20.26		
	09/15/06		18.11		
K-5	10/01/05	443.55	13.82		429.73
	04/1806				3
	09/17/06		15.14		428.41
K-7	10/01/05	442.49	12.72		429.77
	04/1806		16.92		425.57
	09/16/06		13.49		429.00
Notoe:	1	1	l .		l

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 sampling event

¹Elevations are relative to an on-site Temporary Benchmark, based on vertical control point Fire Hydrant 08-05.

Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.

3 Wells not monitored due to obstruction preventing access.

Table 2c Groundwater Analytical Data

Former Unocal 306456 328.5 Illinois Ave. Fairbanks, Alaska

	I							
								Total
Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Xylenes
	GCL:	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 pre	sent - 0.01'	- well not sa	ampled	
	04/23/04	26,600	11,200		2,910	5,300	582	2,990
	09/16/04			LNAPL pre	sent - 0.01'	- well not sa	ampled	
	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				t sampled -			
	09/17/06	31,000	29,000	<970	3,200	4,500	540	3,100
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
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				t sampled -			
	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
GEI-4	10/07/02				sent - 0.67'			
	09/03/03				sent - 0.01'			
	04/23/04	3,720	30,200		30.7	76.7	55.5	76.7
	09/16/04	007			sent - 0.01'			0.00
	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 14.4	2.18	66.4 53.6	2.18
	04/18/06	1,010 1,400	39,000	<960	16	<0.500 1.8	40	<0.500 190
	09/16/06							
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	 \\/all at	1,420	205	32.9	650
	04/23/04	12.000	10.000	1	sampled -		bie. 66.3	1,200
	09/16/04 04/20/05	7,050	18,000 71,500		2,330 1,240	549 444	44.0	1,200
	10/01/05	10,700	67,400	2,020	1,430	239	37.8	922
	04/18/06					239	37.0 	
	09/16/06	6,200	22,000	<500	910	290	45	850
GELG							-	
GEI-6	10/07/02	58,800	5,790 3,520		1.26 0.717	1.95 <0.500	<0.500	2.99
	09/03/03 04/23/04	<80	3,320	\/\all_pat	sampled -		<0.500	<1.00
	09/16/04	58.8	7,580		0.758	<0.500		1.72
	09/16/04	58.8	7,300		sampled -		<0.500	1.72
	10/01/05	<50	2,180	1,140	0.768	<0.500	<0.500	<1.50
	04/18/06	130	2,100		sampled -			11.00
	09/16/06	51	3,400	2,300	1.0	<0.5	<0.5	<1.5
CEL 7		 	,	·				
GEI-7	09/03/03				sent - 0.01'		•	
	04/23/04 09/16/04				sent - 0.41' sent - 0.09'			
	04/20/05				sent - 0.09 sent - 0.93			
	10/01/05	15,400	98,700	<4,240	299	2,180	246	2,560
	04/18/06	13,400	30,700		sampled -			۷,500
	09/17/06	15,000	110,000	<2,000	360	2,000	250	2,400
	33, 1700	.0,000	0,000	~=,000	0.00	2,300	230	<u>-,</u> -100

Table 2c **Groundwater Analytical Data**

Former Unocal 306456 328.5 Illinois Ave. Fairbanks, Alaska

								Total
Well	Date	GRO	DRO	RRO	Benzene	Toluene	Ethylbenzene	Xylenes
ADEC	GCL:	1,300	1,500	1,100	5.0	1,000	700	10,000
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
GEI-9	09/03/03			LNAPL pre	sent - 0.01'	- well not sa	ampled	
	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
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
GEI-11	10/01/05	161,000	61.900	2.810	8.060	21.500	1.340	8,570
0 = 1 1 1	04/18/06							
	09/17/06	92,000	55,000	<3,900	6,300	19,000	1,500	9,100
GEI-12	10/01/05	9,920	43,900	<410	233	478	290	2,040
022	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
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
MW-4	10/01/05							
10100-4	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
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
MW-6	10/01/05	-,	,	,	sampled -	,	hle	-,
14144-0	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
V. 5								
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
			,					
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
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

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

Table 3
Groundwater VOC and RCRA Metals Analytical Data

Former Texaco 21-1815, 401 Driveway Street Former Chevron 100-4130, 418 Illinois Street Former Unocal 306456, 328.5 Illinois Ave. Fairbanks, Alaska

EPA N	Method:	8011				8260B				8021B				6010	0B/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:	0.05	0.05	3,650	200	NL	5	5	5	NL 1015	2	50	50	2,000	5	100	15	180
AR-81	04/20/06							Former	Texaco 21	-1815 <2.5	T							l <u></u>
AR-85	04/20/06									<2.5								
MW-3	10/03/05	<0.0094	 <5				 <5	 <5			<0.062	40.2				36.2		
IVIVV-3	10/03/05 04/20/06	<0.0094 <0.0097	<5 <1	<5 <2	<4 <2	<5 <2	<5 <1	<5 3	<4 <2	 <100	<0.062	40.2 22.9	<9.4 <9.4	671 513	<0.97 3.7	36.2 8.5	37.3 13.5	<2.0 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
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							LN	IAPL presei					•				
	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 04/20/06 ^D									<10								
Trip Blank	04/20/06	<0.0098	<0.5	 <1	<0.8	 <1	<0.5	 <1	<0.8	<10								
p Dialik	30711700	10.0000	70.0		40.0		40.0		Chevron 10		<u> </u>	<u> </u>		<u> </u>			<u> </u>	
TH-13	10/03/05	<0.0094	<1	<1	<0.8	<1	<1	<1	<0.8	U-413U 	<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
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
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	-	-						-	

Table 3 Groundwater VOC and RCRA Metals Analytical Data

Former Texaco 21-1815, 401 Driveway Street Former Chevron 100-4130, 418 Illinois Street Former Unocal 306456, 328.5 Illinois Ave. Fairbanks, Alaska

EPA I	Method:	8011				8260B				8021B				6010)B/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:	0.05	0.05	3,650	200	NL	5	5	5	NL	2	50	50	2,000	5	100	15	180
							Fo	ormer Uno	cal Bulk Pl	ant 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
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

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

Table 4 **Groundwater PAH Analytical Data**

Former Texaco 21-1815, 401 Driveway Street Former Chevron 100-4130, 418 Illinois 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
Α	DEC GCL:	700	2,200	2,200	1,460	11,000	11,000	1,460 Former Tex	1,100	1	100	1	10	0.2	1	0.1	1,100
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
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				•	•			resent - 0.3		t sampled	•	•				.
	09/12/06	400	3	4	12	16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
	•		•	•			Fo	rmer Chev	ron 100-41	30	•			•	•	•	•
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	•	l .a	ه ا	1 .	1 .4			i i	· ·	monument f		1 .	l .a	1 .	ه ا	
	09/14/06	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TH-17	10/03/05 4/20/206	15	<0.02	0.6	1	0.4	0.02	0.06	<0.02	<0.02	<0.02 monument f	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
	09/14/06	19	<1	<1	2	<1	<1	<1 <1	<1	<1	<1	<1	<1	<1	<1	<1	<1
!		_						Former Und	ocal 306456	6							
GEI-2	09/17/06	400	<10	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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

Attachment A

Laboratory Report and Chain-of-Custody





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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 1006191. Samples arrived at the laboratory on Tuesday, September 19, 2006. The PO# for this group is 0015011799 and the release number is HARTUNG-FRERICH.

<u>Lancaster Labs Number</u>
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ELECTRONIC Oasis Environmental, Inc. Attn: Julie Ahern

COPY TO

ELECTRONIC Blasland, Bouck & Lee Attn: Rebecca Andresen

COPY TO

ELECTRONIC BBL Attn: Barbara Orchard COPY TO

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

Respectfully Submitted,

Elizabeth A. Smith Senior Specialist

ElatSata



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Lancaster Laboratories Sample No. WW 4868167

MW-6-W-060915 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/15/2006 15:00 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISF06

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.	39.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943 02946	C10- <c25 dro<br="">C25-C36 RRO</c25>	n.a. n.a.	210. 260.	20. 20.	ug/l ug/l	1 1
05879	BTEX					
02161 02164 02166 02171	Benzene Toluene Ethylbenzene Total Xylenes	71-43-2 108-88-3 100-41-4 1330-20-7	8.1 N.D. 1.0 N.D.	0.5 0.5 0.5 1.5	ug/l ug/l ug/l ug/l	1 1 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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 20:16	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 17:40	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/21/2006 20:16	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 20:16	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868168

MW-5-W-060915 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/15/2006 15:45 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISF-5

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	18,000.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>42,000.</td><td>1,000.</td><td>ug/l</td><td>50</td></c25>	n.a.	42,000.	1,000.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	1,000.	ug/l	50
05879	BTEX					
02161	Benzene	71-43-2	220.	2.5	ug/l	5
02164	Toluene	108-88-3	1,700.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	370.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	2,800.	7.5	ug/l	5

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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/22/2006 11:12	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 22:04	Sarah M Snyder	50
05879	BTEX	SW-846 8021B	1	09/22/2006 11:12	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 11:12	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



Account Number: 11964

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Lancaster Laboratories Sample No. WW 4868169

MW-5-WD-060915 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK Collected:09/15/2006 16:15

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISF5D

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	18,000.	100.	ug/l	10
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>77,000.</td><td>1,900.</td><td>ug/l</td><td>100</td></c25>	n.a.	77,000.	1,900.	ug/l	100
02946	C25-C36 RRO	n.a.	N.D.	1,900.	ug/l	100
05879	BTEX					
02161	Benzene	71-43-2	230.	5.0	ug/l	10
02164	Toluene	108-88-3	1,900.	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	410.	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	3,400.	15.	ug/l	10

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.

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/22/2006 11:45	Patrick N Evans	10
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/30/2006 00:06	Sarah M Snyder	100
05879	BTEX	SW-846 8021B	1	09/22/2006 11:45	Patrick N Evans	10
01146	GC VOA Water Prep	SW-846 5030B	2	09/22/2006 11:45	Patrick N Evans	10
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868170

MW-4-W-060915 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/15/2006 16:30 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISF04

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	N.D.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>98.</td><td>20.</td><td>ug/l</td><td>1</td></c25>	n.a.	98.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	200.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 20:49	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 18:30	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/21/2006 20:49	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 20:49	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



Account Number: 11964

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Lancaster Laboratories Sample No. WW 4868171

MW-2-W-060915 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK Collected:09/15/2006 17:10 by 5

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISF-2

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	14.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>260.</td><td>20.</td><td>ug/l</td><td>1</td></c25>	n.a.	260.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	490.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 21:26	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 18:55	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/21/2006 21:26	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 21:26	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868172

GEI-6-W-060916 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 12:30 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG6

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	51.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>3,400.</td><td>98.</td><td>ug/l</td><td>5</td></c25>	n.a.	3,400.	98.	ug/l	5
02946	C25-C36 RRO	n.a.	2,300.	98.	ug/l	5
05879	BTEX					
02161	Benzene	71-43-2	1.0	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 21:59	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 19:08	Sarah M Snyder	5
05879	BTEX	SW-846 8021B	1	09/21/2006 21:59	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 21:59	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868173

GEI-5-W-060916 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected:09/16/2006 13:15 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG5

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	6,200.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>22,000.</td><td>500.</td><td>ug/l</td><td>25</td></c25>	n.a.	22,000.	500.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	500.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	910.	2.5	ug/l	5
02164	Toluene	108-88-3	290.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	45.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	850.	7.5	ug/l	5

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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/22/2006 12:18	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 19:58	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/22/2006 12:18	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 12:18	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868174

GEI-3-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 14:00 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG3

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	16,000.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>62,000.</td><td>2,000.</td><td>ug/l</td><td>100</td></c25>	n.a.	62,000.	2,000.	ug/l	100
02946	C25-C36 RRO	n.a.	N.D.	2,000.	ug/l	100
05879	BTEX					
02161	Benzene	71-43-2	20.	2.5	ug/l	5
02164	Toluene	108-88-3	280.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	61.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	5,100.	7.5	ug/l	5

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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/22/2006 13:59	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/30/2006 00:55	Sarah M Snyder	100
05879	BTEX	SW-846 8021B	1	09/22/2006 13:59	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 13:59	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868175

GEI-9-W-060916 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 14:45 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection	Units	Dilution Factor
01440	Alaska AK101 GRO (waters)			Limit		
01442	Alaska AK101 GRO (waters)	n.a.	410.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943 02946	C10- <c25 dro<br="">C25-C36 RRO</c25>	n.a. n.a.	56,000. N.D.	2,000. 2,000.	ug/l ug/l	100 100
		n.a.	и	2,000.	ug/ I	100
05879	BTEX					
02161	Benzene	71-43-2	2.1	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	6.6	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	36.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 22:32	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/30/2006 01:19	Sarah M Snyder	100
05879	BTEX	SW-846 8021B	1	09/21/2006 22:32	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 22:32	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868176

GEI-4-W-060916 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 15:15 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG4

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	1,400.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>39,000.</td><td>960.</td><td>ug/l</td><td>50</td></c25>	n.a.	39,000.	960.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	960.	ug/l	50
05879	BTEX					
02161	Benzene	71-43-2	16.	0.5	ug/l	1
02164	Toluene	108-88-3	1.8	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	40.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	190.	1.5	ug/l	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.

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/22/2006 00:10	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 22:29	Sarah M Snyder	50
05879	BTEX	SW-846 8021B	1	09/22/2006 10:37	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 00:10	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	2	09/22/2006 10:37	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868177

GEI-8-W-060916 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 16:00 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG8

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	4,200.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>27,000.</td><td>960.</td><td>ug/l</td><td>50</td></c25>	n.a.	27,000.	960.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	960.	ug/l	50
05879	BTEX					
02161	Benzene	71-43-2	14.	2.5	ug/l	5
02164	Toluene	108-88-3	93.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	89.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,200.	7.5	ug/l	5

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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/22/2006 13:26	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 23:42	Sarah M Snyder	50
05879	BTEX	SW-846 8021B	1	09/22/2006 13:26	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 13:26	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868178

K-7-W-060916 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 17:00 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFK7

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	N.D.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>72.</td><td>19.</td><td>ug/l</td><td>1</td></c25>	n.a.	72.	19.	ug/l	1
02946	C25-C36 RRO	n.a.	250.	19.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/22/2006 23:57	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 18:05	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/22/2006 23:57	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/22/2006 23:57	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868179

GEI-10-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 17:30 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISG10

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.	500.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943 02946	C10- <c25 dro<br="">C25-C36 RRO</c25>	n.a. n.a.	23,000. N.D.	500. 500.	ug/l ug/l	25 25
05879	BTEX					
02161 02164 02166 02171	Benzene Toluene Ethylbenzene Total Xylenes	71-43-2 108-88-3 100-41-4 1330-20-7	N.D. N.D. 13.	0.5 0.5 0.5 1.5	ug/l ug/l ug/l ug/l	1 1 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.

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 00:33	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 20:23	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/23/2006 00:33	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 00:33	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868180

GEI-10-WD-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 17:45 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISGDP

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.	510.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943 02946	C10- <c25 dro<br="">C25-C36 RRO</c25>	n.a. n.a.	22,000. N.D.	500. 500.	ug/l ug/l	25 25
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	13.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	56.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 01:06	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 20:49	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/23/2006 01:06	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 01:06	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868181

GEI-12-W-060916 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/16/2006 18:15 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISF12

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	6,200.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>56,000.</td><td>1,000.</td><td>ug/l</td><td>50</td></c25>	n.a.	56,000.	1,000.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	1,000.	ug/l	50
05879	BTEX					
02161	Benzene	71-43-2	130.	2.5	ug/l	5
02164	Toluene	108-88-3	300.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	150.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,100.	7.5	ug/l	5

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.

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 01:39	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	10/03/2006 17:29	Sarah M Snyder	50
05879	BTEX	SW-846 8021B	1	09/23/2006 01:39	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 01:39	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868182

GEI-7-W-060917 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/17/2006 11:50 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG7

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	15,000.	100.	ug/l	10
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>110,000.</td><td>2,000.</td><td>ug/l</td><td>100</td></c25>	n.a.	110,000.	2,000.	ug/l	100
02946	C25-C36 RRO	n.a.	N.D.	2,000.	ug/l	100
05879	BTEX					
02161	Benzene	71-43-2	360.	5.0	ug/l	10
02164	Toluene	108-88-3	2,000.	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	250.	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	2,400.	15.	ug/l	10

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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 02:16	Patrick N Evans	10
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/30/2006 00:30	Sarah M Snyder	100
05879	BTEX	SW-846 8021B	1	09/23/2006 02:16	Patrick N Evans	10
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 02:16	Patrick N Evans	10
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868183

GEI-1-W-060917 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/17/2006 12:30 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG1

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	31,000.	200.	ug/l	20
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>29,000.</td><td>970.</td><td>ug/l</td><td>50</td></c25>	n.a.	29,000.	970.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	970.	ug/l	50
05879	BTEX					
02161	Benzene	71-43-2	3,200.	10.	ug/l	20
02164	Toluene	108-88-3	4,500.	10.	ug/l	20
02166	Ethylbenzene	100-41-4	540.	10.	ug/l	20
02171	Total Xylenes	1330-20-7	3,100.	30.	ug/l	20

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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 02:49	Patrick N Evans	20
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 21:14	Sarah M Snyder	50
05879	BTEX	SW-846 8021B	1	09/23/2006 02:49	Patrick N Evans	20
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 02:49	Patrick N Evans	20
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 14:00	Olivia I Santiago	1



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Lancaster Laboratories Sample No. WW 4868184

GEI-11-W-060917 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected:09/17/2006 13:00 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISF11

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00259	Mercury	7439-97-6	0.082	0.056	ug/l	1
07035	Arsenic	7440-38-2	107.	10.	ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4	ug/l	1
07046	Barium	7440-39-3	1,110.	0.62	ug/l	1
07049	Cadmium	7440-43-9	1.3	0.91	ug/l	1
07051	Chromium	7440-47-3	30.9	2.3	ug/l	1
07055	Lead	7439-92-1	63.9	6.9	ug/l	1
07066	Silver	7440-22-4	N.D.	1.6	ug/l	1
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	92,000.	1,000.	ug/l	100
02159	BTEX, MTBE					
02161	Benzene	71-43-2	6,300.	50.	ug/l	100
02164	Toluene	108-88-3	19,000.	50.	ug/l	100
02166	Ethylbenzene	100-41-4	1,500.	50.	ug/l	100
02171	Total Xylenes	1330-20-7	9,100.	150.	ug/l	100
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	250.	ug/l	100
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>55,000.</td><td>3,900.</td><td>ug/l</td><td>200</td></c25>	n.a.	55,000.	3,900.	ug/l	200
02946	C25-C36 RRO	n.a.	N.D.	3,900.	ug/l	200
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	1.9	0.099	ug/l	10
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	580.	10.	ug/l	10
03951	Acenaphthylene	208-96-8	N.D.	10.	ug/l	10
03954	Acenaphthene	83-32-9	N.D.	10.	ug/l	10
03956	Fluorene	86-73-7	20.	10.	ug/l	10
03963	Phenanthrene	85-01-8	19.	10.	ug/l	10
03964	Anthracene	120-12-7	N.D.	10.	ug/l	10
03966	Fluoranthene	206-44-0	N.D.	10.	ug/l	10
03967	Pyrene	129-00-0	N.D.	10.	ug/l	10
03970	Benzo(a)anthracene	56-55-3	N.D.	10.	ug/l	10



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Lancaster Laboratories Sample No. WW 4868184

GEI-11-W-060917 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected:09/17/2006 13:00 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISF11

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
03971	Chrysene	218-01-9	N.D.	10.	ug/l	10
03975	Benzo(b)fluoranthene	205-99-2	N.D.	10.	ug/l	10
03976	Benzo(k)fluoranthene	207-08-9	N.D.	10.	ug/l	10
03977	Benzo(a)pyrene	50-32-8	N.D.	10.	ug/l	10
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	10.	ug/l	10
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	10.	ug/l	10
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	10.	ug/l	10
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	2.	0.5	ug/l	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.

		EdaOT dCCT,	0111 0			
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00259	Mercury	SW-846 7470A	1	09/22/2006 08:25	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	09/22/2006 11:02	Joanne M Gates	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 03:22	Patrick N Evans	100
02159	BTEX, MTBE	SW-846 8021B	1	09/23/2006 03:22	Patrick N Evans	100
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/30/2006 02:08	Sarah M Snyder	200
07879	EDB in Wastewater	SW-846 8011	1	09/26/2006 14:38	Lindsey K Norberg	10



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Lancaster Laboratories Sample No. WW 4868184

GEI-11-W-060917 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected:09/17/2006 13:00 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISF11						
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/22/2006 07:55	Mark A Clark	10
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/21/2006 10:47	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 03:22	Patrick N Evans	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2006 10:47	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/22/2006 00:20	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/21/2006 19:50	Nelli S Markaryan	1
07786	EDB Extraction	SW-846 8011	1	09/21/2006 10:45	Deborah M Zimmerman	1
07807	BNA Water Extraction	SW-846 3510C	1	09/21/2006 11:00	Mariam G Attalla	1



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Lancaster Laboratories Sample No. WW 4868185

GEI-2-W-060917 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected:09/17/2006 14:15 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG2

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00259	Mercury	7439-97-6	N.D.	0.056	ug/l	1
07035	Arsenic	7440-38-2	42.2	10.	ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4	ug/l	1
07046	Barium	7440-39-3	445.	0.62	ug/l	1
07049	Cadmium	7440-43-9	N.D.	0.91	ug/l	1
07051	Chromium	7440-47-3	17.8	2.3	ug/l	1
07055	Lead	7439-92-1	89.5	6.9	ug/l	1
07066	Silver	7440-22-4	N.D.	1.6	ug/l	1
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	190,000.	2,000.	ug/l	200
02159	BTEX, MTBE					
02161	Benzene	71-43-2	6,000.	100.	ug/l	200
02164	Toluene	108-88-3	42,000.	100.	ug/l	200
02166	Ethylbenzene	100-41-4	3,300.	100.	ug/l	200
02171	Total Xylenes	1330-20-7	22,000.	300.	ug/l	200
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	500.	ug/l	200
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>25,000.</td><td>970.</td><td>ug/l</td><td>50</td></c25>	n.a.	25,000.	970.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	970.	ug/l	50
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	120.	4.9	ug/l	500
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	400.	10.	ug/l	10
03951	Acenaphthylene	208-96-8	N.D.	10.	ug/l	10
03954	Acenaphthene	83-32-9	N.D.	10.	ug/l	10
03956	Fluorene	86-73-7	11.	10.	ug/l	10
03963	Phenanthrene	85-01-8	N.D.	10.	ug/l	10
03964	Anthracene	120-12-7	N.D.	10.	ug/l	10
03966	Fluoranthene	206-44-0	N.D.	10.	ug/l	10
03967	Pyrene	129-00-0	N.D.	10.	ug/l	10
03970	Benzo(a)anthracene	56-55-3	N.D.	10.	ug/l	10



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Lancaster Laboratories Sample No. WW 4868185

GEI-2-W-060917 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected:09/17/2006 14:15 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG2

15162				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
03971	Chrysene	218-01-9	N.D.	10.	ug/l	10
03975	Benzo(b)fluoranthene	205-99-2	N.D.	10.	ug/l	10
03976	Benzo(k)fluoranthene	207-08-9	N.D.	10.	ug/l	10
03977	Benzo(a)pyrene	50-32-8	N.D.	10.	ug/l	10
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	10.	ug/l	10
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	10.	ug/l	10
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	10.	ug/l	10
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	140.	0.5	ug/l	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.

		Laboracory	CIII O.	IIICIE		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00259	Mercury	SW-846 7470A	1	09/22/2006 08:26	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	09/22/2006 11:14	Joanne M Gates	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/23/2006 04:00	Patrick N Evans	200
02159	BTEX, MTBE	SW-846 8021B	1	09/23/2006 04:00	Patrick N Evans	200
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/29/2006 21:39	Sarah M Snyder	50
07879	EDB in Wastewater	SW-846 8011	1	09/26/2006 18:57	Lindsev K Norberg	500



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Lancaster Laboratories Sample No. WW 4868185

GEI-2-W-060917 Grab Water Sample

Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected:09/17/2006 14:15 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFG2						
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/22/2006 08:16	Mark A Clark	10
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/21/2006 11:11	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 04:00	Patrick N Evans	200
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2006 11:11	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/22/2006 00:20	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 14:00	Olivia I Santiago	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/21/2006 19:50	Nelli S Markaryan	1

	Special				
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/21/2006 19:50	Nelli S Markaryan
07786	EDB Extraction	SW-846 8011	1	09/21/2006 10:45	Deborah M Zimmerman
07807	BNA Water Extraction	SW-846 3510C	1	09/21/2006 11:00	Mariam G Attalla



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Lancaster Laboratories Sample No. WW 4868186

QA-T-060914 Water Sample Facility# 306456

Discard: 01/18/2007

328.5 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 08:00 Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFTB

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.	N.D.	10.	ug/l	1
05879	BTEX					
02161 02164 02166 02171 07879 01087	Benzene Toluene Ethylbenzene Total Xylenes EDB in Wastewater Ethylene dibromide EPA SW846/8260 (water)	71-43-2 108-88-3 100-41-4 1330-20-7	N.D. N.D. N.D. N.D.	0.5 0.5 0.5 1.5	ug/l ug/l ug/l ug/l	1 1 1 1
05393 05398 05399 05402 05403 05409	1,1-Dichloroethane 1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Trichloroethene Tetrachloroethene 1,2-Dibromoethane	75-34-3 71-55-6 56-23-5 107-06-2 79-01-6 127-18-4 106-93-4	N.D. N.D. N.D. N.D. N.D. N.D.	1. 0.8 1. 0.5 1. 0.8	ug/l ug/l ug/l ug/l ug/l ug/l	1 1 1 1 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.

CAT				Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/21/2006 12:20	Patrick N Evans	1
05879	BTEX	SW-846 8021B	1	09/21/2006 12:20	Patrick N Evans	1
07879	EDB in Wastewater	SW-846 8011	1	09/23/2006 03:30	Lindsey K Norberg	1



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Lancaster Laboratories Sample No. WW 4868186

QA-T-060914 Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected:09/14/2006 08:00 Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFTB

05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/22/2006 11:33	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/21/2006 12:20	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/22/2006 11:33	Stephanie A Selis	1
07786	EDB Extraction	SW-846 8011	1	09/21/2006 10:45	Deborah M Zimmerman	1



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Lancaster Laboratories Sample No. WW 4868187

Wastewater-W-060918 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected:09/18/2006 09:00 by JA Account Number: 11964

Submitted: 09/19/2006 09:20 Chevron

Reported: 12/18/2006 at 17:07 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

ISFWW

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00430	Flash Point for Liquids	n.a.	No Flash Observed		Degrees F	1
	No flash observed below 162F.					
	Test flame extinguished at 142F.					
	Flash point was determined using	g Pensky Marter	ns closed cup appa	aratus.		
08079	HEM (oil & grease)	n.a.	27,000.	1,400.	ug/l	1
05879	BTEX					
05679	BIEV					
02161	Benzene	71-43-2	150.	2.5	ug/l	5
02164	Toluene	108-88-3	480.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	62.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	780.	7.5	ug/l	5

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.

CAT			-	Analysis					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor			
00430	Flash Point for Liquids	ASTM D93-90	1	09/20/2006 17:00	Geraldine C Smith	1			
08079	HEM (oil & grease)	EPA 1664A	1	09/25/2006 06:40	Valerie J Trout	1			
05879	BTEX	SW-846 8021B	1	09/23/2006 20:14	Steven A Skiles	5			
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2006 20:14	Steven A Skiles	5			



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Quality Control Summary

Client Name: Chevron Group Number: 1006191

Reported: 12/18/06 at 05:07 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

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 062630007A	Cample nu	mber(c).	4868167-48	60105				
C10- <c25 dro<="" td=""><td>N.D.</td><td>20.</td><td>uq/1</td><td>76</td><td>76</td><td>75-125</td><td>0</td><td>20</td></c25>	N.D.	20.	uq/1	76	76	75-125	0	20
C25-C36 RRO	N.D.	20.	uq/l	79	81	75-125	2	20
			37 =					
Batch number: 062630012A	Sample nu	mber(s):	4868184-48	68186				
Ethylene dibromide	N.D.	0.010	ug/l	100	100	60-140	0	20
Batch number: 06263043001A	Sample nu	mber(s):	4868187			0.5.100		
Flash Point for Liquids				101	101	97-103	0	4
Batch number: 06263A51A	Sample nu	mher(s).	4868186					
Alaska AK101 GRO (waters)	N.D.	10.	ug/1	104	108	60-120	4	20
Benzene	N.D.	0.5	uq/l	108	109	86-119	1	30
Toluene	N.D.	0.5	uq/l	104	107	82-119	2	30
Ethylbenzene	N.D.	0.5	uq/l	104	106	81-119	2	30
Total Xylenes	N.D.	1.5	ug/1	105	107	82-120	2	30
Total kylenes	N.D.	1.5	ug/ I	103	107	02-120	2	30
Batch number: 06263A51B	Sample nu	mber(s):	4868167-48	68177				
Alaska AK101 GRO (waters)	N.D.	10.	uq/l	104	108	60-120	4	20
Benzene	N.D.	0.5	ug/l	108	109	86-119	1	30
Toluene	N.D.	0.5	ug/l	104	107	82-119	2	30
Ethylbenzene	N.D.	0.5	uq/l	104	106	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	105	107	82-120	2	30
Batch number: 06263WAF026	Cample nu	mber(s).	4868184-48	69195				
Naphthalene	N.D.	1.	uq/1	93	104	68-108	11	30
Acenaphthylene	N.D.	1.	ug/1	107	121*	76-117	12	30
Acenaphthene	N.D.	1.	ug/l	96	111	68-111	14	30
Fluorene	N.D.	1.	ug/1 ug/1	97	110	75-111	12	30
Phenanthrene	N.D.	1.	ug/1 ug/1	101	111	68-111	10	30
Anthracene	N.D.	1.	ug/1 ug/1	98	108	68-111	10	30
Fluoranthene	N.D.	1.	ug/1 ug/1	98	108	66-108	9	30
Pyrene	N.D.	1.	ug/1 ug/1	96 97	108	68-114	12	30
Benzo(a)anthracene	N.D.		ug/1 ug/1	90			12	30
	N.D. N.D.	1. 1.		90	102 106	71-113 70-111	14	30
Chrysene Benzo(b)fluoranthene	N.D.	1.	ug/l	92 92	106 97		14 5	30
			ug/l			65-122		
Benzo(k) fluoranthene	N.D.	1.	ug/l	87	105	67-120	18	30
Benzo(a) pyrene	N.D.	1.	ug/l	99	111	68-121	11	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	ug/l	95	110	64-125	15	30
Dibenz(a,h)anthracene	N.D.	1.	ug/l	96	116	70-131	18	30
Benzo(g,h,i)perylene	N.D.	1.	ug/l	100	114	67-126	13	30
Batch number: 062645713003	Sample nu	mber(s).	4868184-48	68185				
Mercury	N.D.	0.00009		114		80-120		
1102 042 /		6	9/ -			30 120		
		•						

Batch number: 062651848001 Sample number(s): 4868184-4868185

- (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: 1006191

Reported: 12/18/06 at 05:07 PM

Laboratory Compliance Quality Control

Analysis Name Arsenic Selenium Barium Cadmium Chromium Lead Silver	Blank Result N.D. N.D. N.D. N.D. N.D. N.D. N.D.	Blank MDL 10. 9.4 0.62 0.91 2.3 6.9 1.6	Report Units ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	LCS %REC 101 95 98 100 98 100	LCSD %REC	LCS/LCSD Limits 80-120 80-120 90-110 90-112 90-113 90-118	<u>RPD</u>	RPD Max
Batch number: 06265A51A Alaska AK101 GRO (waters) Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	Sample nur N.D. N.D. N.D. N.D. N.D.	nber(s): 10. 0.5 0.5 0.5 1.5 2.5	4868178-48 ug/l ug/l ug/l ug/l ug/l ug/l ug/l	68185 106 102 105 106 107 102	114 105 104 105 106 103	60-120 86-119 82-119 81-119 82-120 82-124	7 2 0 1 1 2	20 30 30 30 30 30 30
Batch number: 06266A53A Benzene Toluene Ethylbenzene Total Xylenes Batch number: 06268807901A HEM (oil & grease)	Sample nur N.D. N.D. N.D. N.D. Sample nur N.D.	0.5 0.5 0.5 1.5	ug/l ug/l ug/l ug/l	105 108 108 109	104 106 107 108	86-119 82-119 81-119 82-120	1 2 1 1	30 30 30 30 30
Batch number: W062632AA 1,1-Dichloroethane 1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Trichloroethene Tetrachloroethene 1,2-Dibromoethane			4868184-48 ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l		63	83-127 83-127 77-130 77-132 87-117 74-125 81-114	9	20
Batch number: W062632AB 1,1-Dichloroethane 1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Trichloroethene Tetrachloroethene 1,2-Dibromoethane	Sample nur N.D. N.D. N.D. N.D. N.D. N.D.	nber(s): 1. 0.8 1. 0.5 1. 0.5	4868186 ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	96 97 99 100 100 97		83-127 83-127 77-130 77-132 87-117 74-125 81-114		

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS <u>%REC</u>	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD Max
Batch number: 062630012A Ethylene dibromide	Sample 95	number	(s): 486818	4-48681	.86 UNSI	PK: P868297 N.D.	7 BKG: P868 N.D.	298	30

- (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: 1006191

Reported: 12/18/06 at 05:07 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 Batch number: 06263A51A Alaska AK101 GRO (waters) Benzene Toluene Ethylbenzene Total Xylenes	MS %REC Sample 114 117 115 115	MSD <u>%REC</u> number	MS/MSD Limits (s): 4868186 60-120 78-131 78-129 75-133 84-131	<u>RPD</u> UNSPK:	RPD <u>MAX</u> : P8681	BKG <u>Conc</u> 56, P868157	DUP Conc	DUP RPD	Dup RPD <u>Max</u>
Batch number: 06263A51B Alaska AK101 GRO (waters) Benzene Toluene Ethylbenzene Total Xylenes	Sample 114 117 115 115	number	(s): 4868167 60-120 78-131 78-129 75-133 84-131	7-486817	77 UNSF	K: P868156,	P868157		
Batch number: 062645713003 Mercury	Sample 125*	number 124*	(s): 4868184 80-120	1-486818 1	85 UNSP 20	K: P867765 N.D.	BKG: P86776	5 -108 (1)	20
Batch number: 062651848001 Arsenic Selenium Barium Cadmium Chromium Lead Silver	Sample 103 91 98 99 101 100	number 107 93 100 102 101 102 102	(s): 4868184 75-125 75-125 75-125 83-116 81-120 75-125 75-125	1-486818 4 3 2 3 2 1 2	85 UNSF 20 20 20 20 20 20 20 20	K: P869494 N.D. N.D. 42.3 N.D. 4.5 N.D. N.D.	BKG: P869494 N.D. N.D. 48.3 N.D. 4.6 N.D. N.D. N.D.	4 38* (1) 200* (1) 13 520* (1) 2 (1) 388* (1) -329 (1)	20 20 20 20 20 20 20 20
Batch number: 06265A51A Alaska AK101 GRO (waters) Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	Sample 96 112 113 114 114 106	number	(s): 4868178 60-120 78-131 78-129 75-133 84-131 70-134	3-486818	85 UNSF	K: 4868178,	4868179		
Batch number: 06266A53A Benzene Toluene Ethylbenzene Total Xylenes	Sample 113 116 118 118	number	(s): 4868185 78-131 78-129 75-133 84-131	7 UNSPK:	: P8691	55			
Batch number: W062632AA 1,1-Dichloroethane 1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Trichloroethene Tetrachloroethene 1,2-Dibromoethane Batch number: W062632AB	103 107 111 103 104 100 101 Sample	103 109 110 101 104 100 103 number	(s): 4868184 85-135 81-142 82-149 70-143 83-136 78-133 78-120 (s): 4868186	0 2 1 2 0 1 2	30 30 30 30 30 30 30 30 30				
1,1-Dichloroethane 1,1,1-Trichloroethane Carbon Tetrachloride	103 107 111	103 109 110	85-135 81-142 82-149	0 2 1	30 30 30				

- (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

n-Triacontane-d62

Client Name: Chevron Group Number: 1006191

Reported: 12/18/06 at 05:07 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

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max
1,2-Dichloroethane	103	101	70-143	2	30				
Trichloroethene	104	104	83-136	0	30				
Tetrachloroethene	100	100	78-133	1	30				
1,2-Dibromoethane	101	103	78-120	2	30				

Surrogate Quality Control

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

Analysis Name: TPH-DRO/RRO (AK) water Batch number: 062630007A Orthoterphenyl

Limits:	50-150	50-150	
LCSD	88	103	
LCS	95	103	
Blank	96	106	
4868185	69	88	
4868184	59	96	
4868183	99	87	
4868182	72	101	
4868181	108	94	
4868180	98	92	
4868179	86	92	
4868178	97	104	
4868177	101	108	
4868176	109	90	
4868175	292*	84	
4868174	139	93	
4868173	116	95	
4868172	83	88	
4868171	99	94	
4868170	89	87	
4868169	172*	107	
4868168	130	83	
1060160	1 2 0	0.3	

Limits: 50-150 50-150

Analysis Name: EDB in Wastewater Batch number: 062630012A

1,1,2,2-

Tetrachloroethane

150
0*
119
105
99
107

- (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: 1006191

Reported: 12/18/06 at 05:07 PM

Surrogate Quality Control

LCSD 100

Limits:

Limits: 19-164

Analysis Name: Alaska AK101 GRO (waters)

Batch number: 06263A51A

Trifluorotoluene-F Trifluorotoluene-P 4868186 102 Blank 86 103 LCS 90 97 LCSD 89 98 MS 98 94

69-129

Analysis Name: Alaska AK101 GRO (waters)

Batch number: 06263A51B

60-120

Trifluorotoluene-F Trifluorotoluene-P 4868167 98 86 4868168 92 93 4868169 85 96 4868170 89 103 4868171 89 103 4868172 88 102 4868173 91 102 4868174 89 105 4868175 92 96 4868176 93 105 4868177 87 94 Blank 87 98 LCS 90 97 LCSD 89 98 MS94 98 69-129

Analysis Name: PAHs in Water by GC/MS

Batch number: 06263WAF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4868184	91	89	90
4868185	87	76	78
Blank	95	100	100
LCS	92	98	99
LCSD	104	110	113
Limits:	51-123	64-112	52-151

Analysis Name: Alaska AK101 GRO (waters) Batch number: 06265A51A Trifluorotoluene-F

Trifluorotoluene-P

4868178	8.7	98
4868179	90	106
4868180	89	103

- (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.



78-113

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Page 6 of 6

Quality Control Summary

	ame: Chevron : 12/18/06 at 05:07		Jumber: 1006191	
Reported	: 12/18/06 at 05:07		uality Control	
4868181	91	103	darrey concror	
4868182	92	106		
4868183	88	103		
4868184	89	105		
4868185	89	104		
Blank	87	99		
LCS	91	103		
LCSD	91	98		
MS	92	102		
Limits:	60-120	69-129		
Analysis N	ame: BTEX			
	er: 06266A53A			
	Trifluorotoluene-P			
4868187	92			
Blank	96			
LCS	96			
LCSD	96			
MS	96			
Limits:	69-129			
Analuaia N	ame: EPA SW846/8260 (wate	77)		
Ratch numb	ame: EPA 5W646/6260 (Wate er: W062632AA	1)		
Baccii iialib	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4868184	84	86	87	94
4868185	85	82	85	91
Blank	90	88	91	85
LCS	90	91	91	89
MS	91	87	91	90
MSD	91	91	92	89
Limits:	80-116	77-113	80-113	78-113
Analysis N	ame: EPA SW846/8260 (wate	r)		
	er: W062632AB			
			Toluene-d8	
	Dibromofluoromethane	1,2-Dichloroethane-d4	TOTUETIE-do	4-Bromofluorobenzene
4868186		1,2-Dichloroethane-d4	87	4-Bromofluorobenzene
4868186 Blank	Dibromofluoromethane			
	Dibromofluoromethane	90	87	84
Blank	Dibromofluoromethane 96 89	90	87 91	84 86
Blank LCS	Dibromofluoromethane 96 89 90	90 88 91	87 91 91	84 86 89

80-113

*- Outside of specification

80-116

Limits:

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

77-113

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

Chevron Generic Analysis Request/Chain of Custody

43	Lancaster Laboratories Where quality is a science.
A.	Where quality is a science.

Page	10	
rage	104	0

For Lancaster Laboratories use only

Acct. #: 1904 Sample #: 4808167-87

	· ago	, , ,		~				-		Α	Inaly	ses	Req	uested		76#100	26191	
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Chevron PM: S. Hartung-Frenchs Lead		BBL	^}^	十	\Box	-	8260 🔲 Naphth								K 103)	$\mathbf{S} = H_2SO_4$		
Consultant/Office: Seattle, WA					Potable NPDES	iner	Ž		'		Rng. Cleanup	8		figu	3 / ¥	4	porting needed	
	Andrese	<u></u>			Pot.	Containers	8260				ed Rng Sel Clez	☐ Method		auantification quantification	GG S		t lowest detect or 8260 compo	
Consultant Phone #: (えのる) 325-5264	_ Fax #:(200	6)325-	8918			۵ ا	8021				Extended Silica Gel	တ္တ		enb 📗	A S	8021 MTBE (
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	on SAR:			ŝ		N N	+ MTE	ess	Oxyg	TPHG	TPH [Total	표	,풀		☐ Confirm al	ll hits by 8260	
Sample Identification	Date Collected	Time Collected	Grab	Soil	Water	Oil ☐ Air ☐ Total Number	BTEX + MTBE	8260 full scan				Lead T	УРН/ЕРН	NWTPH H HCID	8	Run	oxy's on highe oxy's on all hi	
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MW-5-WD-060915	9/15/06	1615	X		X	5	1								XX	7		
MW-4-W-060915	177	1630	X		X	5	1								XX	7		
MW-2-W-060915	1 / / / /	1710	X		X	13	1							, _ _	٧ؗٙڒؖ	7		
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GEI-5-W-060916	9/16/06	1315	以	\top		75	1								TXX	ð		1
GEI-3-W-07.09/6	12 11 11	1400	X		1	3	1						一十		XX	i i		- 1 A
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Chevron Generic Analysis Request/Chain of Custody

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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
С	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)	I	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

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

Inorganic Qualifiers

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

U.S. EPA data qualifiers:

9	lifier	(uu	9	 u	" 9	•

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

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

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

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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 1005961. Samples arrived at the laboratory on Saturday, September 16, 2006. The PO# for this group is 0015008342 and the release number is HARTUNG-FRERICH.

Client Description	<u>Lancaster Labs Number</u>
TH-10-W-060913 Grab Water Sample	4866482
TH-10-WD-060913 Grab Water Sample	4866483
MW-23-W-060913 Grab Water Sample	4866484
TH-7-W-060914 Grab Water Sample	4866485
TH-1-W-060914 Grab Water Sample	4866486
TH-5-W-060914 Grab Water Sample	4866487
TH-18-W-060914 Grab Water Sample	4866488
TH-17-W-060914 Grab Water Sample	4866489
TH-13-W-060914 Grab Water Sample	4866490
TH-2-W-060914 Grab Water Sample	4866491
QA-T-060913 Water Sample	4866492

ELECTRONIC	Oasis Environmental, Inc.	Attn: Julie Ahern
COPY TO		
ELECTRONIC	Blasland, Bouck & Lee	Attn: Rebecca Andresen
COPY TO		
ELECTRONIC	BBL	Attn: Barbara Orchard
COPY TO		



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

Respectfully Submitted,

Max E. Snavely Senior Specialist



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Lancaster Laboratories Sample No. WW 4866482

TH-10-W-060913 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/13/2006 16:30 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF10

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	N.D.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>110.</td><td>20.</td><td>ug/l</td><td>1</td></c25>	n.a.	110.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	600.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 00:40	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 16:04	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/20/2006 00:40	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 00:40	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4866483

TH-10-WD-060913 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/13/2006 17:00 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISFDP

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	N.D.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>140.</td><td>19.</td><td>ug/l</td><td>1</td></c25>	n.a.	140.	19.	ug/l	1
02946	C25-C36 RRO	n.a.	790.	19.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 01:13	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 17:17	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/20/2006 01:13	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 01:13	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4866484

MW-23-W-060913 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/13/2006 17:15 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF23

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	38.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>1,000.</td><td>19.</td><td>ug/l</td><td>1</td></c25>	n.a.	1,000.	19.	ug/l	1
02946	C25-C36 RRO	n.a.	440.	19.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 01:45	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 12:50	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/20/2006 01:45	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 01:45	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4866485

TH-7-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 10:15 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF07

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	100.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>790.</td><td>20.</td><td>ug/l</td><td>1</td></c25>	n.a.	790.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	430.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	0.6	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 03:29	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 13:14	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/20/2006 03:29	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 03:29	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4866486

TH-1-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 11:00 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF01

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	860.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>13,000.</td><td>490.</td><td>ug/l</td><td>25</td></c25>	n.a.	13,000.	490.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	490.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	1.1	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	12.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	69.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 04:02	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 14:44	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/20/2006 04:02	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 04:02	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4866487

TH-5-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 11:30 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF05

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	700.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>7,700.</td><td>500.</td><td>ug/l</td><td>25</td></c25>	n.a.	7,700.	500.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	500.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	2.0	0.5	ug/l	1
02164	Toluene	108-88-3	0.6	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	9.0	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	56.	1.5	ug/l	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.

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 05:41	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 15:09	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/20/2006 05:41	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 05:41	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4866488

TH-18-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 14:30 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF18

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	2,200.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>1,300.</td><td>98.</td><td>ug/l</td><td>5</td></c25>	n.a.	1,300.	98.	ug/l	5
02946	C25-C36 RRO	n.a.	N.D.	98.	ug/l	5
05879	BTEX					
02161	Benzene	71-43-2	86.	0.5	ug/l	1
02164	Toluene	108-88-3	2.4	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	130.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	230.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 06:14	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 13:03	Sarah M Snyder	5
05879	BTEX	SW-846 8021B	1	09/20/2006 06:14	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 06:14	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4866489

TH-17-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 15:30 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF17

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00259	Mercury	7439-97-6	N.D.	0.056	ug/l	1
07035	Arsenic	7440-38-2	33.3	10.	ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4	ug/l	1
07046	Barium	7440-39-3	338.	0.62	ug/l	1
07049	Cadmium	7440-43-9	N.D.	0.91	ug/l	1
07051	Chromium	7440-47-3	4.7	2.3	ug/l	1
07055	Lead	7439-92-1	N.D.	6.9	ug/l	1
07066	Silver	7440-22-4	N.D.	1.6	ug/l	1
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	1,400.	10.	ug/l	1
02159	BTEX, MTBE					
02161	Benzene	71-43-2	16.	0.5	ug/l	1
02164	Toluene	108-88-3	2.1	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	70.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	150.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	10.	ug/l	1
	Due to the presence of an inter					
	reporting limit was not attained					
	this compound cannot be determine	ned due to the	presence of this	s interferent.		
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>3,400.</td><td>100.</td><td>ug/l</td><td>5</td></c25>	n.a.	3,400.	100.	ug/l	5
02946	C25-C36 RRO	n.a.	1,500.	100.	ug/l	5
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	N.D.	0.0096	ug/l	1
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	19.	1.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	2.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1



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Lancaster Laboratories Sample No. WW 4866489

TH-17-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 15:30 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF17

10117				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	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.

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00259	Mercury	SW-846 7470A	1	09/21/2006 07:36	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07046	Barium	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07055	Lead	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
07066	Silver	SW-846 6010B	1	09/20/2006 07:05	Eric L Eby	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 06:47	Patrick N Evans	1



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Lancaster Laboratories Sample No. WW 4866489

TH-17-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 15:30 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF17						
02159	BTEX, MTBE	SW-846 8021B	1	09/20/2006 06:47	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 13:28	Sarah M Snyder	5
07879	EDB in Wastewater	SW-846 8011	1	09/19/2006 22:09	Richard A Shober	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/20/2006 09:29	Mark A Clark	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/21/2006 06:47	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 06:47	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2006 06:47	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/19/2006 19:49	James L Mertz	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/20/2006 20:15	Nelli S Markaryan	1
07786	EDB Extraction	SW-846 8011	1	09/18/2006 20:30	Kerrie A Greenfield	1
07807	BNA Water Extraction	SW-846 3510C	1	09/19/2006 02:00	David V Hershey Jr	1



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Lancaster Laboratories Sample No. WW 4866490

TH-13-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 16:45 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF13

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00259	Mercury	7439-97-6	N.D.	0.056	ug/l	1
07035	Arsenic	7440-38-2	15.6	10.	ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4	ug/l	1
07046	Barium	7440-39-3	258.	0.62	ug/l	1
07049	Cadmium	7440-43-9	N.D.	0.91	ug/l	1
07051	Chromium	7440-47-3	N.D.	2.3	ug/l	1
07055	Lead	7439-92-1	N.D.	6.9	ug/l	1
07066	Silver	7440-22-4	N.D.	1.6	ug/l	1
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	440.	10.	ug/l	1
02159	BTEX, MTBE					
02161	Benzene	71-43-2	59.	0.5	ug/l	1
02164	Toluene	108-88-3	0.6	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	4.4	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	12.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>2,500.</td><td>99.</td><td>ug/l</td><td>5</td></c25>	n.a.	2,500.	99.	ug/l	5
02946	C25-C36 RRO	n.a.	110.	99.	ug/l	5
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	N.D.	0.0095	ug/l	1
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	3.	1.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1



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Lancaster Laboratories Sample No. WW 4866490

TH-13-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 16:45 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF13

101.10				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	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.

	Edwor door,	0111 0			
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Mercury	SW-846 7470A	1	09/21/2006 07:38	Damary Valentin	1
Arsenic	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
Selenium	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
Barium	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
Cadmium	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
Chromium	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
Lead	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
Silver	SW-846 6010B	1	09/20/2006 07:09	Eric L Eby	1
Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 07:20	Patrick N Evans	1
BTEX, MTBE	SW-846 8021B	1	09/20/2006 07:20	Patrick N Evans	1
TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 13:53	Sarah M Snyder	5
EDB in Wastewater	SW-846 8011	1	09/19/2006 23:08	Richard A Shober	1
	Mercury Arsenic Selenium Barium Cadmium Chromium Lead Silver Alaska AK101 GRO (waters) BTEX, MTBE TPH-DRO/RRO (AK) water	Analysis Name Method Mercury SW-846 7470A Arsenic SW-846 6010B Selenium SW-846 6010B Barium SW-846 6010B Cadmium SW-846 6010B Chromium SW-846 6010B Lead SW-846 6010B Silver SW-846 6010B Alaska AK101 GRO (waters) AK 101 BTEX, MTBE SW-846 8021B TPH-DRO/RRO (AK) water AK 102/103 4/08/02 modified	Analysis Name Method Trial# Mercury SW-846 7470A 1 Arsenic SW-846 6010B 1 Selenium SW-846 6010B 1 Barium SW-846 6010B 1 Cadmium SW-846 6010B 1 Chromium SW-846 6010B 1 Chromium SW-846 6010B 1 Lead SW-846 6010B 1 Silver SW-846 6010B 1 Silver SW-846 6010B 1 Silver SW-846 6010B 1 SIVER SW-846 8010B 1 FIEX, MTBE SW-846 8021B 1 TPH-DRO/RRO (AK) water AK 102/103 4/08/02 1 modified	Analysis Name Method Trial# Date and Time Mercury SW-846 7470A 1 09/21/2006 07:38 Arsenic SW-846 6010B 1 09/20/2006 07:09 Selenium SW-846 6010B 1 09/20/2006 07:09 Barium SW-846 6010B 1 09/20/2006 07:09 Cadmium SW-846 6010B 1 09/20/2006 07:09 Chromium SW-846 6010B 1 09/20/2006 07:09 Lead SW-846 6010B 1 09/20/2006 07:09 Silver SW-846 6010B 1 09/20/2006 07:09 Alaska AK101 GRO (waters) AK 101 1 09/20/2006 07:20 BTEX, MTBE SW-846 8021B 1 09/20/2006 07:20 TPH-DRO/RRO (AK) water AK 102/103 4/08/02 1 09/27/2006 13:53	Analysis Name Method Trial# Date and Time Analyst Mercury SW-846 7470A 1 09/21/2006 07:38 Damary Valentin Arsenic SW-846 6010B 1 09/20/2006 07:09 Eric L Eby Selenium SW-846 6010B 1 09/20/2006 07:09 Eric L Eby Barium SW-846 6010B 1 09/20/2006 07:09 Eric L Eby Cadmium SW-846 6010B 1 09/20/2006 07:09 Eric L Eby Chromium SW-846 6010B 1 09/20/2006 07:09 Eric L Eby Chromium SW-846 6010B 1 09/20/2006 07:09 Eric L Eby Lead SW-846 6010B 1 09/20/2006 07:09 Eric L Eby Silver SW-846 6010B 1 09/20/2006 07:09 Eric L Eby Silver SW-846 6010B 1 09/20/2006 07:09 Eric L Eby Silver SW-846 6010B 1 09/20/2006 07:09 Eric L Eby Silver SW-846 6010B 1 09/20/2006 07:09 Eric L Eby SIV-846 6010B 1 09/20/2006 07:09 Eric L Eby SIV-846 8010B 1 09/20/2006 07:09 Eric L Eby Alaska AK101 GRO (waters) AK 101 1 09/20/2006 07:20 Patrick N Evans BTEX, MTBE SW-846 8021B 1 09/20/2006 07:20 Patrick N Evans TPH-DRO/RRO (AK) water AK 102/103 4/08/02 1 09/27/2006 13:53 Sarah M Snyder modified



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Lancaster Laboratories Sample No. WW 4866490

TH-13-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 16:45 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF13						
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/20/2006 09:50	Mark A Clark	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/21/2006 07:12	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 07:20	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2006 07:12	Stephanie A Selis	1
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	09/19/2006 19:49	James L Mertz	1
02135	rec) Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/20/2006 05:30	Tracy L Schickel	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/20/2006 20:15	Nelli S Markaryan	1
07786	EDB Extraction	SW-846 8011	1	09/18/2006 20:30	Kerrie A Greenfield	1
07807	BNA Water Extraction	SW-846 3510C	1	09/19/2006 02:00	David V Hershey Jr	1



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Lancaster Laboratories Sample No. WW 4866491

TH-2-W-060914 Grab Water Sample Facility# 1001430

418 Illinois St. - Fairbanks, AK

Collected: 09/14/2006 17:45 by JA Account Number: 11964

Submitted: 09/16/2006 10:05 Chevron

Reported: 10/04/2006 at 16:10 6001 Bollinger Canyon Rd L4310

Discard: 11/04/2006 San Ramon CA 94583

ISF02

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	25,000.	200.	ug/l	20
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>38,000.</td><td>5,000.</td><td>ug/l</td><td>250</td></c25>	n.a.	38,000.	5,000.	ug/l	250
02946	C25-C36 RRO	n.a.	44,000.	5,000.	ug/l	250
05879	BTEX					
02161	Benzene	71-43-2	560.	10.	ug/l	20
02164	Toluene	108-88-3	630.	10.	ug/l	20
02166	Ethylbenzene	100-41-4	1,000.	10.	ug/l	20
02171	Total Xylenes	1330-20-7	5,800.	30.	ug/l	20

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.

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/20/2006 07:53	Patrick N Evans	20
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	10/03/2006 16:41	Sarah M Snyder	250
05879	BTEX	SW-846 8021B	1	09/20/2006 07:53	Patrick N Evans	20
01146	GC VOA Water Prep	SW-846 5030B	1	09/20/2006 07:53	Patrick N Evans	20
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/20/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4866492

QA-T-060913 Water Sample Facility# 1001430 418 Illinois St. - Fairbanks, AK

Collected:09/13/2006 08:00

Submitted: 09/16/2006 10:05

Reported: 10/04/2006 at 16:10

Discard: 11/04/2006

Account Number: 11964

Chevron 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

ISFQA

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.	N.D.	10.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	uq/l	1
02164	Toluene	108-88-3	N.D.	0.5	uq/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	uq/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	N.D.	0.0098	ug/l	1
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	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.

CAT				Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/19/2006 22:56	Patrick N Evans	1
05879	BTEX	SW-846 8021B	1	09/19/2006 22:56	Patrick N Evans	1
07879	EDB in Wastewater	SW-846 8011	1	09/20/2006 00:08	Richard A Shober	1



Account Number: 11964

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

Chevron

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Lancaster Laboratories Sample No. WW 4866492

QA-T-060913 Water Sample Facility# 1001430 418 Illinois St. - Fairbanks, AK

Collected: 09/13/2006 08:00

Submitted: 09/16/2006 10:05

Reported: 10/04/2006 at 16:10

Discard: 11/04/2006

ISFQA

TOLOT						
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/21/2006 07:35	Stephanie A Selis	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/19/2006 22:56	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/21/2006 07:35	Stephanie A Selis	1
07786	EDB Extraction	SW-846 8011	1	09/18/2006 20:30	Kerrie A Greenfield	1



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Quality Control Summary

Client Name: Chevron Group Number: 1005961

Reported: 10/04/06 at 04:10 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

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 062610007A	Sample nur	mber(s): 4	866489-48	66490,4866	5492			
Ethylene dibromide	N.D.	0.010	ug/l	117	117	60-140	0	20
Batch number: 06261WAF026	Sample nur			66490				
Naphthalene	N.D.	1.	ug/l	83	82	68-108	1	30
Acenaphthylene	N.D.	1.	ug/l	100	104	76-117	4	30
Acenaphthene	N.D.	1.	ug/l	93	96	68-111	3	30
Fluorene	N.D.	1.	ug/l	95	98	75-111	3	30
Phenanthrene	N.D.	1.	ug/l	99	100	68-111	1	30
Anthracene	N.D.	1.	ug/l	97	96	68-108	1	30
Fluoranthene	N.D.	1.	ug/l	102	101	66-108	1	30
Pyrene	N.D.	1.	ug/l	94	91	68-114	4	30
Benzo(a)anthracene	N.D.	1.	ug/l	89	88	71-113	1	30
Chrysene	N.D.	1.	ug/l	93	95	70-111	2	30
Benzo(b) fluoranthene	N.D.	1.	ug/l	77	85	65-122	9	30
Benzo(k)fluoranthene	N.D.	1.	ug/l	96	96	67-120	1	30
Benzo(a)pyrene	N.D.	1.	ug/l	94	100	68-121	6	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	ug/l	89	93	64-125	5	30
Dibenz(a,h)anthracene	N.D.	1.	ug/l	91	96	70-131	6	30
Benzo(g,h,i)perylene	N.D.	1.	ug/l	95	100	67-126	5	30
Batch number: 062620017A	Sample nur	mber(s): 4		66491				
C10- <c25 dro<="" td=""><td>N.D.</td><td>20.</td><td>ug/l</td><td>89</td><td>79</td><td>75-125</td><td>12</td><td>20</td></c25>	N.D.	20.	ug/l	89	79	75-125	12	20
C25-C36 RRO	N.D.	20.	ug/l	92	82	75-125	12	20
Batch number: 062621848006	Sample nur							
Arsenic	N.D.	0.010	mg/1	103		80-120		
Selenium	N.D.	0.0094	mg/1	97		80-120		
Barium	N.D.	0.00062	mg/1	98		90-110		
Cadmium	N.D.	0.00091	mg/1	100		90-112		
Chromium	N.D.	0.0023	mg/1	101		90-110		
Lead	N.D.	0.0069	mg/1	102		90-113		
Silver	N.D.	0.0016	mg/l	99		90-118		
Batch number: 06262A51A	Sample nur							
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	96	99	60-120	3	20
Benzene	N.D.	0.5	ug/l	108	108	86-119	0	30
Toluene	N.D.	0.5	ug/l	108	107	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	109	108	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	110	108	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	104	104	82-124	0	30
Batch number: 062635713002	Sample nur							
Mercury	N.D.	0.00005	mg/1	105		80-120		
		6						

Batch number: W062632AA Sample number(s): 4866489-4866490,4866492

*- 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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Page 2 of 4

Quality Control Summary

Group Number: 1005961 Client Name: Chevron

Reported: 10/04/06 at 04:10 PM

Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
<u>Analysis Name</u>	Result	MDL	Units	%REC	%REC	<u>Limits</u>	RPD	RPD Max
1,1-Dichloroethane	N.D.	1.	ug/l	96		83-127		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	97		83-127		
Carbon Tetrachloride	N.D.	1.	ug/l	99		77-130		
1,2-Dichloroethane	N.D.	0.5	ug/l	100		77-132		
Trichloroethene	N.D.	1.	ug/l	100		87-117		
Tetrachloroethene	N.D.	0.8	ug/l	97		74-125		
1,2-Dibromoethane	N.D.	0.5	uq/l	97		81-114		

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 <u>MAX</u>	BKG Conc	DUP <u>Conc</u>	DUP RPD	Dup RPD <u>Max</u>
Batch number: 062610007A Ethylene dibromide	Sample 57*	number	(s): 4866489 65-135	9-48664	90,4866	M.D.	4866489 BKG N.D.	: 4866490 0 (1)	30
Batch number: 062621848006 Arsenic Selenium Barium Cadmium Chromium Lead Silver	Sample 105 101 98 98 99 103 101	number 104 102 99 97 99 102	(s): 4866489 75-125 75-125 75-125 83-116 81-120 75-125 75-125	9-48664 1 1 1 1 1 1 1 1 0	90 UNSE 20 20 20 20 20 20 20 20	PK: P867260 N.D. N.D. 0.0677 N.D. N.D. N.D. N.D.	BKG: P867260 N.D. N.D. 0.0686 N.D. N.D. N.D.	-267 (1) 143* (1) 1 -20 (1) 83* (1) 40* (1) 2000*	20 20 20 20 20 20 20 20
Batch number: 06262A51A Alaska AK101 GRO (waters) Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	Sample 107 119 115 114 115	number	(s): 4866482 60-120 78-131 78-129 75-133 84-131 70-134	2-48664	92 UNSI	PK: 4866482	, 4866483		
Batch number: 062635713002 Mercury	Sample 108	number 110	(s): 4866489 80-120	9-48664 2	90 UNSE 20	PK: P867038 0.00024	BKG: P867038	3 2 (1)	20
Batch number: W062632AA 1,1-Dichloroethane 1,1,1-Trichloroethane Carbon Tetrachloride 1,2-Dichloroethane Trichloroethene Tetrachloroethene 1,2-Dibromoethane	Sample 103 107 111 103 104 100	number 103 109 110 101 104 100 103	(s): 4866488 85-135 81-142 82-149 70-143 83-136 78-133 78-120	9-48664 0 2 1 2 0 1 2	90,4866 30 30 30 30 30 30 30 30	5492 UNSPK:	P865725		

Surrogate Quality Control

*- 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

Group Number: 1005961 Client Name: Chevron

Reported: 10/04/06 at 04:10 PM

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: EDB in Wastewater

Batch number: 062610007A

1,1,2,2-

Tetrachloroethane

4000403	TOT
4866490	95
4866492	115
Blank	119
DUP	78
LCS	136*
LCSD	131*
MS	69

1066100

Limits: 19-164

Analysis Name: PAHs in Water by GC/MS Batch number: 06261WAF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	
4866489	94	92	100	
4866490	94	91	97	
Blank	95	90	102	
LCS	95	93	98	
LCSD	94	99	98	
Limits	51-123	64-112	52-151	

Analysis Name: TPH-DRO/RRO (AK) water

Batch number: 062620017A

	Orthoterphenyl	n-Triacontane-d62
4866482	93	90
4866483	96	92
4866484	74	94
4866485	84	93
4866486	96	97
4866487	134	95
4866488	84	90
4866489	67	84
4866490	84	94
4866491	104	88
Blank	104	109
LCS	96	106
LCSD	92	108
Limits:	50-150	50-150

Analysis Name: Alaska AK101 GRO (waters) Batch number: 06262A51A Trifluorotoluene-F

Trifluorotoluene-P

4866482	87	99
4866483	86	100
4866484	86	98

*- 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: 1005961

Reported: 10/04/06 at 04:10 PM

Surrogate Quality Control

4866485	88	103
4866486	85	88
4866487	89	100
4866488	92	101
4866489	91	98
4866490	90	101
4866491	87	101
4866492	85	97
Blank	84	98
LCS	89	102
LCSD	88	103
MS	91	97

Limits: 60-120 69-129

Analysis Name: EPA SW846/8260 (water) Batch number: W062632AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4866489	90	87	91	90
4866490	90	88	90	89
4866492	91	88	90	87
Blank	90	88	91	85
LCS	90	91	91	89
MS	91	87	91	90
MSD	91	91	92	89
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 Generic Analysis Request/Chain of Custody



Page 1 of 1

Acct. #: 1196L

For blincaster Laboratories use only ample #: 46 4866482-92

00653 cr#: *3み14の*

								Analyses Requested 6# 1005961												
Facility #: 1001430 - 0ML				Τ	Matri	x					Pres	serva	tion	Code				Preserv	ative Cod	es
Site Address: 418 Illinois St. Fo	•							H	~	-	-		$\frac{1}{1}$			etals/Z		H = HCI N = HNO3	T = Thio: B = NaO	Н
Chevron PM: S. Hartung-Frenich S Lead	Consultant: B	BL				TT,	_ι	lapht 	OM MENTS			11				Metals Cool	\$ E	S = H ₂ SO ₄	O = Othe	er
Consultant/Office: Seattle WA				İ	Potable NPDES				F F			8 8	AH.	Ęģ.		(RCRAM	GRO,	☐ J value repo		
Consultant Prj. Mgr.: Rebecca An					Pot NPI		or Containers	8260	٩		☐ Extended Rng.	☐ Method	3270 (PAH	antifica	1) (RC	\mathcal{I}	possible for	8260 compo	ounds
Consultant Phone #: (20%) 325-5254	_ Fax#: (201	1325-8	3218		<u> </u>		ō i	2 D	ગ		Exten	S S	S	7	8) (2, 7, 4)	2 6	8021 MTBE Co	nfirmation	
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1	on SAR:		isoc	İ		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Ž	5		Oxygen TPH G	THT OH	Total	19	프	\equiv	80		☐ Confirm all h	its by 8260	
Sample Identification	Date Collected	Time Collected	Grab Composite	Soil	Water	Oil 🗆 Air 🗆	otal	8260 Naphth	2-0070			Lead T	SZEMENT.	NWTPH H HCID	2	6010B	AK	[L. Kun o	cy's on high cy's on all hi	estnit
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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
С	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)	1	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

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

Inorganic Qualifiers

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

U.S. EPA data qualifiers:

9	lifier	(uu	9	 u	" 9	•

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

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

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

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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 1005608. Samples arrived at the laboratory on Thursday, September 14, 2006. The PO# for this group is 0015008342 and the release number is HARTUNG-FRERICH.

Client Description	Lancaster Labs Number
MW-10-W-060911 Grab Water Sample	4864397
MW-10-WD-060911 Grab Water Sample	4864398
MW-8-W-060911 Grab Water Sample	4864399
MW-9-W-060911 Grab Water Sample	4864400
MW-7-W-060911 Grab Water Sample	4864401
MW-1-W-060912 Grab Water Sample	4864402
MW-5-W-060912 Grab Water Sample	4864403
MW-5-WD-060912 Grab Water Sample	4864404
AR-81-W-060912 Grab Water Sample	4864405
AR-85-W-060912 Grab Water Sample	4864406
MW-2-W-060912 Grab Water Sample	4864407
MW-4-W-060912 Grab Water Sample	4864408
MW-3-W-060912 Grab Water Sample	4864409
QA-T-060911 Water Sample	4864410

ELECTRONIC	Oasis Environmental, Inc.	Attn: Julie Ahern
COPY TO		
ELECTRONIC	Blasland, Bouck & Lee	Attn: Rebecca Andresen
COPY TO		
ELECTRONIC	BBL	Attn: Barbara Orchard
COPY TO		



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

Respectfully Submitted,

Max E. Snavely Senior Specialist



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Lancaster Laboratories Sample No. WW 4864397

MW-10-W-060911 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 16:00 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF10

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	670.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>1,300.</td><td>20.</td><td>ug/l</td><td>1</td></c25>	n.a.	1,300.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	250.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	64.	0.5	ug/l	1
02164	Toluene	108-88-3	0.8	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	0.5	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	2.7	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/16/2006 08:51	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 03:57	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/16/2006 08:51	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/16/2006 08:51	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Page 1 of 1

Lancaster Laboratories Sample No. WW 4864398

MW-10-WD-060911 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 16:30 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSFDP

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	660.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>1,200.</td><td>20.</td><td>ug/l</td><td>1</td></c25>	n.a.	1,200.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	240.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	63.	0.5	ug/l	1
02164	Toluene	108-88-3	0.8	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	0.5	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	2.7	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/16/2006 09:24	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 04:45	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/16/2006 09:24	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/16/2006 09:24	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4864399

MW-8-W-060911 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 16:45 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF08

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	3,300.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>1,400.</td><td>20.</td><td>ug/l</td><td>1</td></c25>	n.a.	1,400.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	300.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	410.	2.5	ug/l	5
02164	Toluene	108-88-3	16.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	120.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	330.	7.5	ug/l	5

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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/16/2006 14:24	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 05:10	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/16/2006 14:24	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/16/2006 14:24	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4864400

MW-9-W-060911 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 17:30 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF09

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	31.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>63.</td><td>20.</td><td>ug/l</td><td>1</td></c25>	n.a.	63.	20.	ug/l	1
02946	C25-C36 RRO	n.a.	40.	20.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/16/2006 13:52	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/24/2006 23:05	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/16/2006 13:52	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/16/2006 13:52	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4864401

MW-7-W-060911 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 18:15 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF07

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	8,100.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>2,000.</td><td>98.</td><td>ug/l</td><td>5</td></c25>	n.a.	2,000.	98.	ug/l	5
02946	C25-C36 RRO	n.a.	N.D.	98.	ug/l	5
05879	BTEX					
02161	Benzene	71-43-2	1,800.	2.5	ug/l	5
02164	Toluene	108-88-3	9.4	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	280.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	450.	7.5	ug/l	5
	Due to the nature of the sample attained for toluene.	matrix, normal	reporting limit	s were not		

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.

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 00:02	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 06:56	Sarah M Snyder	5
05879	BTEX	SW-846 8021B	1	09/17/2006 00:02	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 00:02	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4864402

MW-1-W-060912 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 14:30 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF01

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	23.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water		450	10		-
02943 02946	C10- <c25 dro<br="">C25-C36 RRO</c25>	n.a. n.a.	470. 210.	19. 19.	ug/l ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 20:32	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/24/2006 23:29	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/17/2006 20:32	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 20:32	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4864403

MW-5-W-060912 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 16:15 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF05

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	9,700.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water				1-	
02943 02946	C10- <c25 dro<br="">C25-C36 RRO</c25>	n.a. n.a.	2,900. N.D.	100.	ug/l ug/l	5 5
05879	BTEX					
02161	Benzene	71-43-2	980.	2.5	ug/l	5
02164	Toluene	108-88-3	230.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	220.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,700.	7.5	ug/l	5

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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 21:05	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 07:21	Sarah M Snyder	5
05879	BTEX	SW-846 8021B	1	09/17/2006 21:05	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 21:05	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4864404

MW-5-WD-060912 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 16:30 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF5D

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	9,500.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>3,000.</td><td>200.</td><td>ug/l</td><td>10</td></c25>	n.a.	3,000.	200.	ug/l	10
02946	C25-C36 RRO	n.a.	N.D.	200.	ug/l	10
05879	BTEX					
02161	Benzene	71-43-2	980.	2.5	ug/l	5
02164	Toluene	108-88-3	220.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	210.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,600.	7.5	ug/l	5

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

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 21:37	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 07:45	Sarah M Snyder	10
05879	BTEX	SW-846 8021B	1	09/17/2006 21:37	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 21:37	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4864405

AR-81-W-060912 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 14:15 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF81

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	100.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>900.</td><td>19.</td><td>ug/l</td><td>1</td></c25>	n.a.	900.	19.	ug/l	1
02946	C25-C36 RRO	n.a.	310.	19.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	0.7	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 19:22	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 05:58	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/17/2006 19:22	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 19:22	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4864406

AR-85-W-060912 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 15:15 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF85

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection	Units	Dilution Factor
	•	CID NUMBER	ROBULT	Limit	011200	140001
01440	Alaska AK101 GRO (waters) Alaska AK101 GRO (waters)	n.a.	N.D.	10.	ug/l	1
02923	TPH-DRO/RRO (AK) water				5	
02943 02946	C10- <c25 dro<br="">C25-C36 RRO</c25>	n.a. n.a.	480. 200.	20. 20.	ug/l ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	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.

CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 19:55	Patrick N Evans	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/25/2006 00:18	Sarah M Snyder	1
05879	BTEX	SW-846 8021B	1	09/17/2006 19:55	Patrick N Evans	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 19:55	Patrick N Evans	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4864407

MW-2-W-060912 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 16:55 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF02

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	8,000.	50.	ug/l	5
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>22,000.</td><td>500.</td><td>ug/l</td><td>25</td></c25>	n.a.	22,000.	500.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	500.	ug/l	25
05879	BTEX					
02161	Benzene	71-43-2	710.	2.5	ug/l	5
02164	Toluene	108-88-3	350.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	280.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,300.	7.5	ug/l	5

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.

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 22:10	Patrick N Evans	5
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 08:34	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	09/17/2006 22:10	Patrick N Evans	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 22:10	Patrick N Evans	5
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/15/2006 05:30	Tracy L Schickel	1



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Lancaster Laboratories Sample No. WW 4864408

 $\mbox{MW-}4\mbox{-W-}060912$ Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 17:45 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF04

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00259	Mercury	7439-97-6	N.D.	0.056	ug/l	1
07035	Arsenic	7440-38-2	25.8	10.	ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4	ug/l	1
07046	Barium	7440-39-3	526.	0.62	ug/l	1
07049	Cadmium	7440-43-9	2.3	0.91	ug/l	1
07051	Chromium	7440-47-3	8.5	2.3	ug/l	1
07055	Lead	7439-92-1	37.8	6.9	ug/l	1
07066	Silver	7440-22-4	N.D.	1.6	ug/l	1
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	64,000.	500.	ug/l	50
02159	BTEX, MTBE					
02161	Benzene	71-43-2	3,300.	25.	ug/l	50
02164	Toluene	108-88-3	8,200.	25.	ug/l	50
02166	Ethylbenzene	100-41-4	1,400.	25.	ug/l	50
02171	Total Xylenes	1330-20-7	9,600.	75.	ug/l	50
02172	Methyl tert-Butyl Ether	1634-04-4	220.	130.	ug/l	50
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>26,000.</td><td>980.</td><td>ug/l</td><td>50</td></c25>	n.a.	26,000.	980.	ug/l	50
02946	C25-C36 RRO	n.a.	N.D.	980.	ug/l	50
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	0.039	0.0096	ug/l	1
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	400.	5.	ug/l	5
03951	Acenaphthylene	208-96-8	3.	1.	ug/l	1
03954	Acenaphthene	83-32-9	4.	1.	ug/l	1
03956	Fluorene	86-73-7	12.	1.	ug/l	1
03963	Phenanthrene	85-01-8	16.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1



As Received

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Lancaster Laboratories Sample No. WW 4864408

MW-4-W-060912 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 17:45 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF04

CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1
05382	compounds. The analysis was repsurrogate recoveries met require initial extraction of the sample EPA SW846/8260 (water)	ements. The da	-			
05393	1,1-Dichloroethane	75-34-3	N.D.	5.	/1	5
05393	•		N.D.		ug/l	5
	1,1,1-Trichloroethane	71-55-6		4.	ug/l	
05399	Carbon Tetrachloride	56-23-5	N.D.	5.	ug/l	5
05402	1,2-Dichloroethane	107-06-2	N.D.	3.	ug/l	5
05403	Trichloroethene	79-01-6	N.D.	5.	ug/l	5
05409	Tetrachloroethene	127-18-4	N.D.	4.	ug/l	5
05412	1,2-Dibromoethane	106-93-4	N.D.	3.	ug/l	5
	The reporting limits for the GC,	MS volatile co	ompounds were rai:	sed due to		

State of Alaska Lab Certification No. UST-061

the level of non-target compounds.

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

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00259	Mercury	SW-846 7470A	1	09/18/2006 08:26	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/19/2006 04:46	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	09/19/2006 04:46	Eric L Eby	1
07046	Barium	SW-846 6010B	1	09/19/2006 04:46	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	09/19/2006 04:46	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	09/19/2006 04:46	Eric L Eby	1



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Lancaster Laboratories Sample No. WW 4864408

 $\mbox{MW-}4\mbox{-W-}060912$ Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 17:45 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:23 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF04						
07055	Lead	SW-846 6010B	1	09/19/2006 04:46	Eric L Eby	1
07066	Silver	SW-846 6010B	1	09/19/2006 04:46	Eric L Eby	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 22:43	Patrick N Evans	50
02159	BTEX, MTBE	SW-846 8021B	1	09/17/2006 22:43	Patrick N Evans	50
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02	1	09/27/2006 09:46	Sarah M Snyder	50
		modified				
07879	EDB in Wastewater	SW-846 8011	1	09/18/2006 18:23	Richard A Shober	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/19/2006 05:41	Gregory J Drahovsky	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/19/2006 10:33	Joseph M Gambler	5
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/20/2006 12:21	Anita M Dale	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 22:43	Patrick N Evans	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2006 12:21	Anita M Dale	5
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/17/2006 19:47	James L Mertz	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/15/2006 12:30	Damary Valentin	1
07786	EDB Extraction	SW-846 8011	1	09/16/2006 12:00	Deborah M Zimmerman	1
07807	BNA Water Extraction	SW-846 3510C	1	09/16/2006 02:00	David V Hershey Jr	1



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Lancaster Laboratories Sample No. WW 4864409

MW-3-W-060912 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 18:30 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:24 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF03

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00259	Mercury	7439-97-6	N.D.	0.056	ug/l	1
07035	Arsenic	7440-38-2	27.3	10.	ug/l	1
07036	Selenium	7782-49-2	N.D.	9.4	ug/l	1
07046	Barium	7440-39-3	560.	0.62	ug/l	1
07049	Cadmium	7440-43-9	2.5	0.91	ug/l	1
07051	Chromium	7440-47-3	9.9	2.3	ug/l	1
07055	Lead	7439-92-1	13.0	6.9	ug/l	1
07066	Silver	7440-22-4	1.7	1.6	ug/l	1
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	19,000.	100.	ug/l	10
02159	BTEX, MTBE					
02161	Benzene	71-43-2	1,400.	5.0	ug/l	10
02164	Toluene	108-88-3	1,000.	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	520.	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	3,200.	15.	ug/l	10
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	25.	ug/l	10
02923	TPH-DRO/RRO (AK) water					
02943	C10- <c25 dro<="" td=""><td>n.a.</td><td>15,000.</td><td>490.</td><td>ug/l</td><td>25</td></c25>	n.a.	15,000.	490.	ug/l	25
02946	C25-C36 RRO	n.a.	N.D.	490.	ug/l	25
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	N.D.	0.0096	ug/l	1
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	120.	5.	ug/l	5
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	2.	1.	ug/l	1
03956	Fluorene	86-73-7	3.	1.	ug/l	1
03963	Phenanthrene	85-01-8	3.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1



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Lancaster Laboratories Sample No. WW 4864409

MW-3-W-060912 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 18:30 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:24 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF03

20100				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	N.D.	5.	ug/l	5
05398	1,1,1-Trichloroethane	71-55-6	N.D.	4.	ug/l	5
05399	Carbon Tetrachloride	56-23-5	N.D.	5.	ug/l	5
05402	1,2-Dichloroethane	107-06-2	N.D.	3.	ug/l	5
05403	Trichloroethene	79-01-6	7.	5.	ug/l	5
05409	Tetrachloroethene	127-18-4	N.D.	4.	ug/l	5
05412	1,2-Dibromoethane	106-93-4	N.D.	3.	ug/l	5
05412	1,2-Dibromoethane	106-93-4	N.D.	3.	ug/l	5

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

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			4	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00259	Mercury	SW-846 7470A	1	09/19/2006 07:58	Damary Valentin	1
07035	Arsenic	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07046	Barium	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07055	Lead	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
07066	Silver	SW-846 6010B	1	09/19/2006 04:50	Eric L Eby	1
01440	Alaska AK101 GRO (waters)	AK 101	1	09/17/2006 23:16	Patrick N Evans	10
02159	BTEX. MTBE	SW-846 8021B	1	09/17/2006 23:16	Patrick N Evans	1.0



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Lancaster Laboratories Sample No. WW 4864409

MW-3-W-060912 Grab Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/12/2006 18:30 by JA Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:24 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSF03						
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	09/27/2006 08:58	Sarah M Snyder	25
07879	EDB in Wastewater	SW-846 8011	1	09/18/2006 18:53	Richard A Shober	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/19/2006 11:26	Joseph M Gambler	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	09/20/2006 00:33	Gregory J Drahovsky	5
05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/20/2006 13:10	Anita M Dale	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/17/2006 23:16	Patrick N Evans	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2006 13:10	Anita M Dale	5
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/17/2006 19:47	James L Mertz	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/02	1	09/15/2006 05:30	Tracy L Schickel	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/18/2006 19:15	Nelli S Markaryan	1
07786	EDB Extraction	SW-846 8011	1	09/16/2006 12:00	Deborah M Zimmerman	1
07807	BNA Water Extraction	SW-846 3510C	1	09/16/2006 02:00	David V Hershey Jr	1



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Lancaster Laboratories Sample No. WW 4864410

QA-T-060911 Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 08:00 Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:24 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSFQA

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.	N.D.	10.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	uq/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	N.D.	0.0098	ug/l	1
05382	EPA SW846/8260 (water)					
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	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.

Laboratory Chronicle

CAT				Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	09/15/2006 23:23	Patrick N Evans	1
05879	BTEX	SW-846 8021B	1	09/15/2006 23:23	Patrick N Evans	1
07879	EDB in Wastewater	SW-846 8011	1	09/18/2006 19:22	Richard A Shober	1



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Lancaster Laboratories Sample No. WW 4864410

QA-T-060911 Water Sample Facility# 211815

401 Driveway St. - Fairbanks, AK

Collected: 09/11/2006 08:00 Account Number: 11964

Submitted: 09/14/2006 09:15 Chevron

Reported: 09/28/2006 at 13:24 6001 Bollinger Canyon Rd L4310

Discard: 10/29/2006 San Ramon CA 94583

DSFQA

05382	EPA SW846/8260 (water)	SW-846 8260B	1	09/20/2006 11:57	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/15/2006 23:23	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/20/2006 11:57	Anita M Dale	1
07786	EDB Extraction	SW-846 8011	1	09/16/2006 12:00	Deborah M Zimmerman	1



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Quality Control Summary

Group Number: 1005608 Client Name: Chevron

Reported: 09/28/06 at 01:24 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

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 062580001A	Sample ni	umber(s): 4	1864397-48	64409				
C10- <c25 dro<="" td=""><td>N.D.</td><td>20.</td><td>ug/1</td><td>89</td><td>90</td><td>75-125</td><td>2</td><td>20</td></c25>	N.D.	20.	ug/1	89	90	75-125	2	20
C25-C36 RRO	N.D.	20.	ug/l	92	92	75-125	0	20
Batch number: 062580009A	Sample n	umber(s): 4	1864408-48	64410				
Ethylene dibromide	N.D.	0.010	ug/l	92	100	60-140	9	20
Batch number: 062585713001	Sample ni	umber(s): 4	1864408					
Mercury	N.D.	0.00005 6	mg/l	86		80-120		
Batch number: 06258A51A	Sample ni	umber(s): 4	1864397-48	64398,486	4410			
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	100	108	60-120	7	20
Benzene	N.D.	0.5	ug/l	105	108	86-119	2	30
Toluene	N.D.	0.5	ug/l	104	103	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	105	103	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	106	104	82-120	1	30
Batch number: 06258A51B	Sample ni	umber(s): 4	1864399-48	64401				
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	100	108	60-120	7	20
Benzene	N.D.	0.5	ug/l	105	108	86-119	2	30
Toluene	N.D.	0.5	ug/l	104	103	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	105	103	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	106	104	82-120	1	30
Batch number: 06258WAG026	Sample ni	umber(s): 4	1864408-48	64409				
Naphthalene	N.D.	1.	ug/l	85	85	68-108	0	30
Acenaphthylene	N.D.	1.	ug/l	98	97	76-117	1	30
Acenaphthene	N.D.	1.	ug/l	91	92	68-111	2	30
Fluorene	N.D.	1.	ug/l	91	91	75-111	0	30
Phenanthrene	N.D.	1.	ug/l	89	92	68-111	4	30
Anthracene	N.D.	1.	ug/l	86	89	68-108	3	30
Fluoranthene	N.D.	1.	ug/l	87	90	66-108	4	30
Pyrene	N.D.	1.	ug/l	95	99	68-114	4	30
Benzo(a)anthracene	N.D.	1.	ug/l	92	96	71-113	4	30
Chrysene	N.D.	1.	ug/l	90	92	70-111	2	30
Benzo(b)fluoranthene	N.D.	1.	ug/l	88	88	65-122	0	30
Benzo(k)fluoranthene	N.D.	1.	ug/l	90	94	67-120	4	30
Benzo(a)pyrene	N.D.	1.	ug/l	95	97	68-121	3	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	ug/l	95	96	64-125	1	30
Dibenz(a,h)anthracene	N.D.	1.	ug/l	98	101	70-131	3	30
Benzo(g,h,i)perylene	N.D.	1.	ug/l	94	97	67-126	3	30
Batch number: 062601848001	Sample ni	umber(s): 4	1864408-48	64409				
Arsenic	N.D.	0.010	mg/l	101		80-120		
Selenium	N.D.	0.0094	mg/l	99		80-120		
Barium	N.D.	0.00062	mg/l	97		90-110		

- (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: 1005608

Reported: 09/28/06 at 01:24 PM

Laboratory Compliance Quality Control

Analysis Name Cadmium Chromium Lead Silver	Blank Result N.D. N.D. N.D. N.D.	Blank MDL 0.00091 0.0023 0.0069 0.0016	Report Units mg/l mg/l mg/l mg/l	LCS <u>%REC</u> 98 98 102 97	LCSD %REC	LCS/LCSD <u>Limits</u> 90-112 90-110 90-113 90-118	<u>RPD</u>	RPD Max
Batch number: 06260A51A	Sample num							
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	101	107	60-120	6	20
Benzene	N.D.	0.5	ug/l	108	106	86-119	2	30
Toluene	N.D.	0.5	ug/l	104	106	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	104	108	81-119	4	30
Total Xylenes	N.D.	1.5	ug/l	106	108	82-120	3	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	105	103	82-124	2	30
Batch number: 062615713001	Sample num	ber(s): 4	364409					
Mercury	N.D.	0.00005 6	mg/l	94		80-120		
Batch number: W062621AB	Sample num	ber(s): 4	364408-486	54410				
1,1-Dichloroethane	N.D.	1.	ug/l	99		83-127		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	101		83-127		
Carbon Tetrachloride	N.D.	1.	ug/l	100		77-130		
1,2-Dichloroethane	N.D.	0.5	ug/l	104		77-132		
Trichloroethene	N.D.	1.	ug/l	100		87-117		
Tetrachloroethene	N.D.	0.8	ug/l	95		74-125		
1,2-Dibromoethane	N.D.	0.5	ug/l	100		81-114		

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: 062580009A Ethylene dibromide	Sample 109	number	(s): 4864408 65-135	-486443	10 UNSP	PK: P864792 N.D.	BKG: P86479 N.D.	1 0 (1)	30
Batch number: 062585713001 Mercury	Sample 107	number 106	(s): 4864408 80-120	UNSPK 1	: 48644 20	08 BKG: 486 N.D.	4408 N.D.	228* (1)	20
Batch number: 06258A51A Alaska AK101 GRO (waters) Benzene Toluene Ethylbenzene Total Xylenes	Sample 115 110 111 112 112	number	(s): 4864397 60-120 78-131 78-129 75-133 84-131	-486439	98,4864	410 UNSPK:	P864411, P8	64412	
Batch number: 06258A51B Alaska AK101 GRO (waters) Benzene Toluene Ethylbenzene Total Xylenes	Sample 115 110 111 112 112	number	(s): 4864399 60-120 78-131 78-129 75-133 84-131	-486440	01 UNSP	K: P864411,	P864412		

- (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: 1005608

Reported: 09/28/06 at 01:24 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

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	MAX	<u>Conc</u>	Conc	RPD	<u> Max</u>
Batch number: 062601848001			(s): 4864408				BKG: P86344		
Arsenic	100	102	75-125	2	20	N.D.	N.D.	94* (1)	20
Selenium	99	97	75-125	2	20	N.D.	N.D.	84* (1)	20
Barium	98	98	75-125	0	20	0.0580	0.0591	2	20
Cadmium	98	97	83-116	0	20	N.D.	N.D.	-88 (1)	20
Chromium	97	97	81-120	0	20	N.D.	N.D.	140* (1)	20
Lead	101	101	75-125	0	20	N.D.	N.D.	-5533 (1)	20
Silver	99	99	75-125	0	20	N.D.	N.D.	-138 (1)	20
Batch number: 06260A51A	Sample	number	(s): 4864402	-48644	09 UNSI	PK: 4864405,	4864406		
Alaska AK101 GRO (waters)	108		60-120						
Benzene	117		78-131						
Toluene	114		78-129						
Ethylbenzene	113		75-133						
Total Xylenes	114		84-131						
Methyl tert-Butyl Ether	108		70-134						
Batch number: 062615713001			(s): 4864409	UNSPK					
Mercury	105	106	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: W062621AB			(s): 4864408	-48644		PK: P862275			
1,1-Dichloroethane	105	107	85-135	1	30				
1,1,1-Trichloroethane	112	113	81-142	1	30				
Carbon Tetrachloride	114	116	82-149	2	30				
1,2-Dichloroethane	108	108	70-143	0	30				
Trichloroethene	106	109	83-136	2	30				
Tetrachloroethene	100	100	78-133	0	30				
1,2-Dibromoethane	99	99	78-120	0	30				

Surrogate Quality Control

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

Analysis Name: TPH-DRO/RRO (AK) water

Batch number: 062580001A

	Orthoterphenyl	n-Triacontane-d62
4864397	76	100
4864398	77	103
4864399	75	100
4864400	72	68
4864401	71	92
4864402	93	100
4864403	76	95
4864404	90	97
4864405	67	90
4864406	93	98
4864407	106	101

- (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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Page 4 of 5

Quality Control Summary

	ame: Chevron	Gr	oup Numbe	er:	1005608
Reported:	09/28/06 at 01:24 P	Surrogat	-6 01121	i +	Control
4864408 4864409 Blank LCS LCSD	109 104 100 98 100	105 107 112 113 111	Le Quai	LCY	Control
Limits:	50-150	50-150			
	nme: EDB in Wastewater er: 062580009A 1,1,2,2- Tetrachloroethane				
4864408 4864409 4864410 Blank DUP LCS LCSD MS	105 145 138 123 125 128 126 131				
Limits:	19-164				
	me: Alaska AK101 GRO (wate r: 06258A51A Trifluorotoluene-F	ers) Trifluorotoluene-	P		
4864397	91	97			
4864398 4864410	91 86	97 99			
Blank	86	102			
LCS	90	102			
LCSD	88	97			
MS	92	104			
Limits:	60-120	69-129			
	me: Alaska AK101 GRO (wate r: 06258A51B Trifluorotoluene-F	ers) Trifluorotoluene-	P		
4864399	91	100			
4864400	86	98			
4864401 Blank	89 87	96 103			
LCS	90	103			
LCSD	88	97			
MS	92	104			
Limits:	60-120	69-129			
	me: PAHs in Water by GC/MS er: 06258WAG026	}			
	Nitrobenzene-d5	2-Fluorobiphenyl	Te	rphen	yl-d14
4864408	134*	93	78		
4864409	106	93	88		

- (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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Page 5 of 5

Quality Control Summary

Client Name: Chevron Group Number: 1005608

Reported: 09/28/06 at 01:24 PM

Surrogate Quality Control

Limits:	51-123	64-112	52-151
LCSD	86	90	97
LCS	88	88	95
Blank	89	91	89

Analysis Name: Alaska AK101 GRO (waters)

Batch number: 06260A51A

	Trifluorotoluene-F	Trifluorotoluene-P
4864402	86	103
4864403	89	97
4864404	90	97
4864405	84	96
4864406	87	101
4864407	90	103
4864408	87	99
4864409	92	99
Blank	88	102
LCS	89	98
LCSD	88	102
MS	87	97
Limits:	60-120	69-129

Analysis Name: EPA SW846/8260 (water)

Batch number: W062621AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4864408	92	90	86	90
4864409	91	89	89	90
4864410	93	90	87	85
Blank	92	91	88	85
LCS	93	85	89	89
MS	93	91	90	89
MSD	92	91	89	90
Limits:	80-116	77-113	80-113	78-113

- (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



Pose 1 of 2

Acct. #: 11964 For Lancaster Laboratories use only Sample #: 4864397-410

006544

SCR#:

• Where quality is a secret.					Г			An	alyse	s Re	equested			G#1005	202	
Facility #: 21815- OML		Ti	Matrix	T^{-}			_	Pr	eser	/atio	n Codes	1.11	士	Preservat		es
Site Address: 401 Driveway St, Fairbanks, AV	ζ						+	+	+	\perp			Ķ		T = Thios B = NaOl	
Chevron PM: Stacie Hartung-Frenchs Lead Consultant: BB	<u>}L</u>			ا پر ا	laphth							(840)	BTEX	S = H ₂ SO ₄	O = Othe	r
Consultant/Office: Seattle, WA			Potable NPDES	ine.	8260 🗌 Naphth				d aun	3	ligion [(DRO/	<i>⊼</i> 4	☐ J value reporti	-	
Consultant Prj. Mgr.: Rebecca Andresen			P G	of Containers				Pd Pd	a Gel Cleanup		ntifica 	19	86	☐ Must meet low possible for 82		
Consultant Phone #: (20%) 325-5254 Fax #: (20%)				8021			Fxtend	, 01		☐ quantification	I ~ 1		8021 MTBE Conf	irmation		
Sampler: Julie Ahern, OASIS Environment] je	I I	_	Oxygenates	╟			1 1 1		g	☐ Confirm MTBE	•		
Service Order #: Non SAR:		jig	_ \f	Į Į	+ MTBE	scar	Cxyge	TPHG	TPH E	. [<u> </u>	720	3	Confirm all hits	by 8260	
	Time &	Composite	Water	Total Number	BTEX +	8260 full scan			T pea	VPH/EPH	NWTPH H HCID	¥		□ Run oxy'		
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MW-7-W-060911 9/4/06 18	15 X		X	5								X	X			
MW-1-W-060912 9/12/06/14	130 X		χ	5				$ lap{}$				X	χĪ			
MW-5-W-060912 9/12/06 16	15 X		X	5			\Box		\Box			X	X			
MW-5-WD-060912 9/12/06 16	30 X		X	5								X	X			
AR-81-W-060912 9/12/06/14	415 X		X	5			\Box		П	\Box		X	X			
AR-85-W-060912 9/12/06 15	515 X		X	5			\prod	\blacksquare	\perp	\bot		X X	X			
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24 hour 4 day 5 day 😤				<u></u>	_		<u> </u>				•					
Data Package Options (please circle if required)	Relinquished by	r.					 	ate	Tir	ne	Received by:				Date	Time
QC Summary Type I - Full	Relinquished by	Comn	nercial C	arrier:			Ь		<u> </u>	\dashv	Received by:				Date	Time
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DiskOther.	Temperature Up	pon Re	ceipt	34	<u>. °</u> C	; \	<u></u>	<u>=</u>	<u>=</u>	-	Custody Sea	Intact	?	Yes No	010	

Chevron Generic Analysis Request/Chain of Custody



Page 2 & 2

Acct. #: 11964 Sample #: 4864397-410

. 0			•				A	nai	/ses	Requ	estec	i			C#1005	80%	
Facility #: 211815- OML		М	latrix			.		res	ervat	ion C	odes	11.7			Preserva	tive Code	s
Site Address: 401 Drive way St, Fairbenles, A	K				<u> </u>	_			$\overline{\Box}$		$-\Box$	N	済			T = Thios B = NaOl	
Chevron PM: S. Hartung Frenichs Lead Consultant:	BBL			s	ab -	Ę						(Slater	/RRO		S = H ₂ SO ₄	O = Other	
Consultant/Office: Seattle, WA		1 1	NPDES	Containers	8021 ⊠ 8260 □ Naphth □	OM/M/CN/TS		Extended Rng.	pod	170 (PAH	ation	RA &	(0RO)	GRO/	☐ J value reporti	_	
Consultant Prj. Mgr.: Rebecca Andresen		. 6		, out	ا 826	5		2 2 2 3	Met	9		(RCRA	(v)	100	possible for 82		
Consultant Phone #: (206) 325-5254 Fax #: (20	6)325-8218	▕▕▕	184	of	21 🔀	3 4		Extend Silica (☐ Diss. ☐ Method	2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		AK 10	त्र			
Sampler: Julie Ahery OASIS Environme	id 🗆			ber						S	ع اس	7.	1	/80	☐ Confirm MTBI		
Service Order #: Non SAR:		Sosit	_ \ <u>\</u>	N P	## +(VTB)	Oxygenates	TPH G	뮾	Total	¥	WIPHHHCID LIQ	98	၂၉	0	☐ Confirm all hit	s by 8260	1
Date Sample Identification Collected	Time &	Composite	Water	Total Number	BORO CILICOS				Lead T	WHITEH 82		60108	AK 10	AK	□ Run oxy □ Run oxy	's on highe 's on all hit	st hit s
MW-2-W-060912 9/12/06			X	5									X	7	Comments / F		
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MW-3-W-060912 9/12/06			X	13				_		×	_\X		X	X		trachlo	sbin
QA-T-060911 9/11/06	0800 X		X	6	>	4	_	<u> </u>	ļ	_	_ X	` 	ļ	×	Tetrachlo	no ethe	ne
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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
С	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)	1	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

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

Inorganic Qualifiers

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

U.S. EPA data qualifiers:

9	lifier	(uu	9	 u	" 9	•

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

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

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

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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 1007714. Samples arrived at the laboratory on Friday, September 29, 2006. The PO# for this group is 0015011799 and the release number is HARTUNG-FRERICH.

Client DescriptionLancaster Labs NumberK-5-W-060927 Grab Water Sample4877778

ELECTRONIC Oasis Environmental, Inc. Attn: Julie Ahern

COPY TO

ELECTRONIC Blasland, Bouck & Lee Attn: Rebecca Andresen

COPY TO

ELECTRONIC BBL Attn: Barbara Orchard

COPY TO



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

Respectfully Submitted,

Elizabeth A. Smith Senior Specialist



As Possired

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Page 1 of 2

Lancaster Laboratories Sample No. WW 4877778

K-5-W-060927 Grab Water Sample Facility# 306456

328.5 Illinois St. - Fairbanks, AK

Collected: 09/27/2006 11:15 by JA Account Number: 11964

Submitted: 09/29/2006 09:25 Chevron

Reported: 12/18/2006 at 17:06 6001 Bollinger Canyon Rd L4310

Discard: 01/18/2007 San Ramon CA 94583

328K5

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
014	40 Alaska AK101 GRO (waters)					
014	42 Alaska AK101 GRO (waters)	n.a.	610.	10.	ug/l	1
029	23 TPH-DRO/RRO (AK) water					
029	43 C10- <c25 dro<="" td=""><td>n.a.</td><td>17,000.</td><td>480.</td><td>ug/l</td><td>25</td></c25>	n.a.	17,000.	480.	ug/l	25
029	46 C25-C36 RRO	n.a.	N.D.	480.	ug/l	25
058	79 BTEX					
021	61 Benzene	71-43-2	N.D.	0.5	ug/l	1
021	64 Toluene	108-88-3	N.D.	0.5	ug/l	1
021	66 Ethylbenzene	100-41-4	0.5	0.5	ug/l	1
021	71 Total Xylenes	1330-20-7	N.D.	5.0	ug/l	1

Due to the presence of interferents near their retention time, normal reporting limits were not attained for xylenes. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.

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		1		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	10/01/2006 19:26	Martha L Seidel	1
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	10/09/2006 20:33	Sarah M Snyder	25
05879	BTEX	SW-846 8021B	1	10/01/2006 19:26	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	10/01/2006 19:26	Martha L Seidel	1
02135	Extraction - DRO Water Special	AK 102/AK 103 04/08/0	2 1	09/30/2006 06:30	Mark P Mastropietro	1



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Page 2 of 2

Lancaster Laboratories Sample No. WW 4877778

K-5-W-060927 Grab Water Sample Facility# 306456 328.5 Illinois St. - Fairbanks, AK Collected:09/27/2006 11:15 by JA

Submitted: 09/29/2006 09:25

Reported: 12/18/2006 at 17:06

Discard: 01/18/2007

Account Number: 11964

Chevron

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

328K5



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Page 1 of 2

Quality Control Summary

Client Name: Chevron Group Number: 1007714

Reported: 12/18/06 at 05:06 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

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 062720029A C10- <c25 dro<br="">C25-C36 RRO</c25>	Sample num N.D. N.D.	mber(s): 4 20. 20.	4877778 ug/l ug/l	86 83	87 92	75-125 75-125	2 10	20 20
Batch number: 06274A51A	Sample num	mber(s):	4877778					
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	107	110	60-120	2	20
Benzene	N.D.	0.5	ug/l	106	110	86-119	3	30
Toluene	N.D.	0.5	ug/l	107	109	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	107	108	81-119	0	30
Total Xylenes	N.D.	1.5	ug/l	107	108	82-120	0	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 <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 06274A51A Alaska AK101 GRO (waters)		number	(s): 4877778	UNSPK	: P8778	39, P877840)		
Benzene	118 113		60-120 78-131						
Toluene	114		78-131						
Ethylbenzene	115		75-133						
Total Xylenes	116		84-131						

Surrogate Quality Control

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

Analysis Name: TPH-DRO/RRO (AK) water Batch number: 062720029A

	Orthoterphenyl	n-Triacontane-d62
4877778	78	77
Blank	95	90
LCS	92	86
LCSD	92	87
Limits:	50-150	50-150

Analysis Name: BTEX

- (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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Page 2 of 2

Quality Control Summary

Client Name: Chevron Group Number: 1007714

Reported: 12/18/06 at 05:06 PM

Surrogate Quality Control

Batch number: 06274A51A

	Trifluorotoluene-F	Trifluorotoluene-P
4877778	86	94
Blank	86	97
LCS	91	103
LCSD	90	105
MS	91	97
Limits:	60-120	69-129

^{*-} 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 Where quality is a science.	D.	0 1			Ac	ct.#	r <u>1</u>	191	64	L s	l ampl	For La e #: <u>^</u>	inça	ster	Labo	rato 18	ries	use (only	SCR#:	כסטנ	3 6
• vvnere quality is a science.	Pagel	of (Analy							7	Group#	1007	714
Facility #: Former Unocal Oc	208			T	Matri	x				,		Prese	rva	tion	Cod					Preserva	ative Code	es
Site Address: 328.5 Illinois 8	t, Fairbanl				т	T		8021 8260 Naphth						<u></u>		#	Ħ	H	H	H = HCI N = HNO ₃ S = H ₂ SO ₄	T = Thios B = NaOl O = Other	4
Chevron PM: S. Harting Frerichs L		DOL			9 V		ers	Rad				۵						İ	ŀ	☐ J value repor	ting needed	
Consultant/Office: Seattle, WA					☐ Potable		Containers	@ @				Rng. Cleanup	☐ Method		quantification				긲	☐ Must meet lo	west detecti	on limits
Consultant Prj. Mgr.: Rebecca Ar							S	E				Extended Rng. Silica Gel Clean	Ž		uantif	1880	(O)	3	司	possible for 8	3260 compo	unds
Consultant Phone #: (206) 325 - 525			218			4	6	21		٠,		Exter	iss.			B	0	্ট	<u>(81</u>	8021 MTBE Co		
Sampler: Julie Ahern, OASI	S Environm	ental_	9	2			age		g	Oxygenates	ا س	D Silica			믕	M	~	`	20	☐ Confirm MTB		
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Sample Identification	Date Collected	Time Collected	Grab	Soil	Water	Oil	Total Number	BTEX + MTBE	8260 full scan				Lead	VPH/EPH	NWTPH H HCID	AK 103	AKIOZ	AK 101	8	□ Run ox □ Run ox	y's on highe y's on all hit	
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Data Package Options (please circle if require	ed)	Relinqu	ished by	:			\		_		Date		Time	, 1	Recei	ived I	by:				Date	Time
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Type VI (Raw Data)		UPS		edEx			ther_						_	- (n		•	W	u	/Druge	9/29/00	Mas
DiskOther.		Temper	ature Up	on R	eceipt	2.	2-á	1.8	C°					1	Custo					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
С	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)	1	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

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

Inorganic Qualifiers

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

U.S. EPA data qualifiers:

9	lifier	(uu	9	 u	" 9	•

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

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

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

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

Attachment B

Laboratory Data Review Checklist



Reset Form

Laboratory Data Review Checklist

• Yes	O No	Comments:
		ed to another "network" laboratory or sub-contracted to an alternate performing the analyses ADEC CS approved? Comments:
NA		
Chain of Custody	(COC)	
a. COC infor	mation completed, si	gned, and dated (including released/received by)?
• Yes	O No	Comments:
1. Comment on	10	
b. Correct an	alyses requested?	Comments:
abo <u>ratory Sampl</u>	e Receipt Document	ation
a. Sample/co	•	umented and within range at receipt $(4^{\circ} \pm 2^{\circ} \text{ C})$?
•	O No	Comments:
© Yes		
•		
b. Sample pr	reservation acceptable	e - acidified waters, Methanol preserved VOC soil (GRO, BTEX, etc.)?
b. Sample pr	•	
b. Sample pr	Chlorinated Solvents,	etc.)?
b. Sample pr Volatile C	C No	etc.)?

• Yes	C No	Comments:
No discrepancie	es.	
e. Data quali	ty or usability affects	ed? Explain.
•		Comments:
NA		
ase Narrative		
a. Present and	d understandable?	
• Yes	C No	Comments:
Brief.		
b. Discrepan	cies, errors or QC fa	ilures identified by the lab?
• Yes	C No	Comments:
	in ranart	<u> </u>
Not in narrative	, in report.	•
		numented?
	orrective actions doc	cumented? Comments:
c. Were all c	orrective actions doc	
c. Were all c O Yes	orrective actions doc	Comments:
c. Were all c O Yes	orrective actions doc	lity/usability according to the case narrative?
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with exception of several PAHs, which have cleanup I e. Data quality or usability affected? Explain. Commo No. QC Samples a. Method Blank i. One method blank reported per matrix, analys Yes C No Commo iii. All method blank results less than PQL? Yes C No Commo NA iv. Do the affected sample(s) have data flags? If C Yes C No Commo NA v. Data quality or usability affected? Explain. Commo NA b. Laboratory Control Sample/Duplicate (LCS/LCS) i. Organics - One LCS/LCSD reported per matrix Yes C No Commo Commo	or the minimum required detection level for the
e. Data quality or usability affected? Explain. Commo No. QC Samples a. Method Blank i. One method blank reported per matrix, analys Yes C No Commo iii. All method blank results less than PQL? Yes C No Commo iii. If above PQL, what samples are affected? Commo NA iv. Do the affected sample(s) have data flags? If Yes C No Commo NA v. Data quality or usability affected? Explain. Commo NA b. Laboratory Control Sample/Duplicate (LCS/LCS i. Organics - One LCS/LCSD reported per matri Yes C No Commo	nts:
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No. QC Samples a. Method Blank i. One method blank reported per matrix, analys Yes C No Commo iii. All method blank results less than PQL? Yes C No Commo iii. If above PQL, what samples are affected? Commo NA iv. Do the affected sample(s) have data flags? If Yes C No Commo NA v. Data quality or usability affected? Explain. Commo NA b. Laboratory Control Sample/Duplicate (LCS/LCS) i. Organics - One LCS/LCSD reported per matric Yes C No Commo	
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Yes C No Commo))
ii. Metals/Inorganics - One LCS and one sample samples?	duplicate reported per matrix, analysis and 20
Yes C No Commo	nts:

			overies (%R) reported and within method or laboratory limits or Petroleum methods 20%; all other analyses see the laboratory QC
	• Yes	C No	Comments:
		oject specified DQ	cent differences (RPD) reported and less than method or laboratory Os? (AK Petroleum methods 20%; all other analyses see the
	• Yes	Ĉ No	Comments:
	v. If %R or	RPD is outside of	acceptable limits, what samples are affected? Comments:
NA			
	vi. Do the a	affected samples(s)	have data flags? If so, are the data flags clearly defined? Comments:
NA			
	vii. Data qı	uality or usability a	offected? Explain. Comments:
NA			
c.	Surrogates -	Organics Only	
		-	ported for organic analyses - field, QC and laboratory samples? Comments:
	specified D	-	overies (%R) reported and within method or laboratory limts or project cum methods 50-150 %R; all other analyses see the laboratory report
	pages) • Yes	C No	Comments:
With	exception of	f the LCS and LCS	D.
	iii. Do the		a failed surrogate recoveries have data flags? If so, are the data flags
	⊂ Yes	C No	Comments:
NA			

	IV. Data que	anty or usability after	Comments:
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	ater and Soil		nly (GRO, BTEX, Volatile Chlorinated Solvents, etc.): natrix, analysis and cooler? Comments:
One	trip blank for	four coolers.	-
	ii. All resul • Yes	ts less than PQL?	Comments:
	iii. If above	PQL, what samples	s are affected? Comments:
NA			
	iv. Data qu	ality or usability affe	ected? Explain. Comments:
NA			-
e.	Field Duplic	ate	
	i. One field Yes	duplicate submitted	d per matrix, analysis and 10 project samples? Comments:
	ii. Submitte	ed blind to lab? • No	Comments:
	iii. Precisio	-	ent differences (RPD) less than specified DQOs? (Reccomended:
	• Yes	C: No	Comments:
į.	to the same and the		

Comments:

iv. Data quality or usability affected?

C Yes

No

NA

f. Decontamination or Equipment Blank (if applicable)	
C Yes C No C Not Applicable	
i. All results less than PQL? Yes No Comments:	
ii. If above PQL, what samples are affected? Comments:	
iii. Data quality or usability affected? Explain. Comments:	
Other Date Flora/Qualifiers (ACQE, AECEE, Leb Specific etc.)	
Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)	
a. Defined and appropriate? C Yes C No Comments:	
NA	
p	
ompleted by: Barbara Orchard	
tle: Project Engineer in Training	Date: Nov 14, 2006
eport Name: FAIR 2nd semi-annual GWM Report -Chevron 1001430	Report Date:
rm: BBL	File Number:
Submit by E-Mail Print Form	Reset Form

Laboratory Data Review Checklist

1. Laboratory a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses? C 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 C No Comments: NA 2. Chain of Custody (COC) a. COC information completed, signed, and dated (including released/received by)? Yes O No Comments: b. Correct analyses requested? Yes Comments: O No 3. Laboratory Sample Receipt Documentation a. Sample/cooler temperature documented and within range at receipt $(4^{\circ} \pm 2^{\circ} \text{ C})$? Yes Comments: C No b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)? • Yes Comments: C No c. Sample condidtion documented - broken, leaking (Methanol), zero headspace (VOC vials)? O Yes C No Comments: Laboratory currently retains sample checklist, but conditions affecting samples are included in reports.

○ Yes	Ĉ No	e ouside of acceptance range, insufficient or missing samples, etc.? Comments:
No discrepancie		<u> </u>
ivo discrepancie		
e. Data quali	ty or usability affect	ted? Explain.
		Comments:
NA		
se Narrative		
a. Present and	d understandable?	
C Yes	C No	Comments:
 Brief		
DHEI		
_	· · · · · · · · · · · · · · · · · · ·	ailures identified by the lab?
C Yes	C/No	Comments:
Not in narrative	, in report.	
	orrective actions do	
c. Were all c	orrective actions do	cumented? Comments:
O Yes	C No	Comments:
C Yes	C No	Comments: tlity/usability according to the case narrative?
O Yes NA d. What is th	C No	Comments:
NA d. What is th	C No	Comments: tlity/usability according to the case narrative?
O Yes NA d. What is th	C No	Comments: tlity/usability according to the case narrative?
NA d. What is the NA mples Results a. Correct and	© No e effect on data qua	Comments: tlity/usability according to the case narrative? Comments: ported as requested on COC?
O Yes NA d. What is the NA mples Results	© No e effect on data qua	Comments: tlity/usability according to the case narrative? Comments:
NA d. What is the NA mples Results a. Correct and	© No e effect on data qua	Comments: tlity/usability according to the case narrative? Comments: ported as requested on COC?
NA d. What is the NA mples Results a. Correct and Yes b. All applications	e effect on data qua alyses performed/re C No	Comments: tlity/usability according to the case narrative? Comments: sported as requested on COC? Comments:
NA d. What is the NA mples Results a. Correct and Yes	e effect on data qua alyses performed/re	Comments: tlity/usability according to the case narrative? Comments: ported as requested on COC? Comments:
NA d. What is the NA mples Results a. Correct and Yes b. All applications	e effect on data qua alyses performed/re C No	Comments: tlity/usability according to the case narrative? Comments: ported as requested on COC? Comments:
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	Yes	C No	Comments:
	^		d EDB by 8260, which have cleanup levels of less than or equal to 2-DCE was equal to the cleanup level.
e [Data qualit	y or usability affect	ted? Evnlain
0.1	zata quarr	y or asability affect	Comments:
NA.			
C Sam	<u>ples</u>		
a. N	Method Bla	ank	
	i. One me	thod blank reported	d per matrix, analysis and 20 samples?
	• Yes	C No	Comments:
	ii. All me	thod blank results le	ess than POL?
	• Yes	C No	Comments:
			
	iii. If abo	ve PQL, what samp	oles are affected? Comments:
NT A			Confinents.
NA			
		* ' '	have data flags? If so, are the data flags clearly defined?
	← Yes	⊂ No	Comments:
NA		_	
	v. Data g	uality or usability a	ffected? Explain
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	adding of dodoning di	Comments:
NA		_	
b. I	Laboratory	Control Sample/D	ruplicate (LCS/LCSD)
	i. Organio	es - One LCS/LCSE	O reported per matrix, analysis and 20 samples?
	• Yes	C:No	Comments:
	ii. Metals samples?		CS and one sample duplicate reported per matrix, analysis and 20
	€ Ves	C No	Comments:

	project specified DQOs? (AK Petroleum methods 20%; all other analyses see the lapages)		
	• Yes	C No	Comments:
		oject specified De	ercent differences (RPD) reported and less than method or laboratory QOs? (AK Petroleum methods 20%; all other analyses see the Comments:
	v. If %R or	RPD is outside o	of acceptable limits, what samples are affected? Comments:
NA			
	vi. Do the a	affected samples(s) have data flags? If so, are the data flags clearly defined? Comments:
NA	•		
	vii. Data qı	uality or usability	affected? Explain. Comments:
NA			
c.	Surrogates -	Organics Only	
	i. Are surro	ogate recoveries re	eported for organic analyses - field, QC and laboratory samples? Comments:
	specified D		coveries (%R) reported and within method or laboratory limts or project leum methods 50-150 %R; all other analyses see the laboratory report
	pages) • Yes	C No	Comments:
			gate recoveries for PAHs in one of the samples. Surrogate recoveries w are confirmed unless attributed to dilution or otherwise noted.
	iii. Do the		th failed surrogate recoveries have data flags? If so, are the data flags
	← Yes	C No	Comments:
	ogate recover	ies which are out	side of the QC window are confirmed unless attributed to dilution or

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits or

	iv. Data quality or usability affected? Explain. Comments:		
No.			
	ater and Soil		(GRO, BTEX, Volatile Chlorinated Solvents, etc.): ix, analysis and cooler? Comments:
One 1	trip blank for	all coolers.	
	ii. All result	s less than PQL?	
	• Yes	○ No	Comments:
	iii. If above	PQL, what samples ar	re affected? Comments:
NA			
	iv. Data qua	llity or usability affects	ed? Explain. Comments:
NA			
e.	i. One field Yes		er matrix, analysis and 10 project samples? Comments:
Two	duplicates	-	
	ii. Submitte	d blind to lab? No	Comments:
	iii. Precision 30% water,		differences (RPD) less than specified DQOs? (Reccomended:
	• Yes	C No	Comments:
	iv. Data qua	llity or usability affects	ed? Comments:
No.			

f. Decontamination or Equipment Blank (if applicable)	
C Yes C No O Not Applicable	
i. All results less than PQL? O Yes O No Comments:	
ii. If above PQL, what samples are affected? Comments:	
iii. Data quality or usability affected? Explain. Comments:	
7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)	
a. Defined and appropriate? O Yes O No Comments:	
NA	
Completed by: Barbara Orchard	
Title: Project Engineer in Training	Date: Nov 14, 2006
Report Name: FAIR 2nd SA GWM Report - Texaco 211815	Report Date:
Firm: BBL	File Number:
Submit by E-Mail Print Form	Reset Form

Laboratory Data Review Checklist

1. Laboratory a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses? • Yes C 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? Comments: O Yes C No NA 2. Chain of Custody (COC) a. COC information completed, signed, and dated (including released/received by)? Yes Comments: C No b. Correct analyses requested? • Yes C No Comments: 3. Laboratory Sample Receipt Documentation a. Sample/cooler temperature documented and within range at receipt $(4^{\circ} \pm 2^{\circ} \text{ C})$? Yes C No Comments: b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)? • Yes Comments: C No c. Sample condidtion documented - broken, leaking (Methanol), zero headspace (VOC vials)? • Yes C. No. Comments: Lab currently retains sample receipt form.

	○ Yes	C No	Comments:
NA	_	_	
e.	Data quali	ity or usability affecte	ed? Explain.
			Comments:
NA			
ase N	<u>arrative</u>		
a.	Present an	d understandable?	
	• Yes	○ No	Comments:
Brief			
b.	Discrepan	ncies, errors or QC fai	lures identified by the lab?
	• Yes	C No	Comments:
		a a la magnit	
In re	port - by ea	ach result.	
,			umantad?
,		corrective actions doc	umented? Comments:
c.	Were all o	corrective actions doc	
c.	Were all of Yes	corrective actions doc	Comments:
c.	Were all of Yes	corrective actions doc	
c.	Were all of Yes	corrective actions doc	ity/usability according to the case narrative?
In red.	Were all of Yes	corrective actions doc	ity/usability according to the case narrative?
In re d.	Were all of Yes Port - by ea What is the es Results	corrective actions doc C No ach result. ne effect on data quatl	ity/usability according to the case narrative?
In re d.	Were all of Yes Port - by ea What is the es Results	corrective actions doc C No ach result. ne effect on data quatl	ity/usability according to the case narrative? Comments:
In re d.	Were all of Yes Port - by ear What is the es Results Correct an	corrective actions doctor C No ach result. ne effect on data quatl	ity/usability according to the case narrative? Comments: orted as requested on COC?
In red.	Were all of Yes port - by es What is the es Results Correct and Yes	corrective actions doctor C No ach result. ne effect on data quatl	Comments: ity/usability according to the case narrative? Comments: orted as requested on COC? Comments:
In red.	Were all of Yes port - by es What is the es Results Correct and Yes	corrective actions doctor No ach result. ne effect on data quather alyses performed/rep	Comments: ity/usability according to the case narrative? Comments: orted as requested on COC? Comments:
In red.	Were all of Yes port - by es What is the es Results Correct and Yes All applic	corrective actions doctor of No ach result. ne effect on data quather of No cable holding times me	ity/usability according to the case narrative? Comments: orted as requested on COC? Comments:
In red.	Were all of Yes port - by ear What is the es Results Correct and Yes All applications Yes	corrective actions doctor of No ach result. ne effect on data quather of No cable holding times me	Comments: ity/usability according to the case narrative? Comments: orted as requested on COC? Comments: et? Comments:

	C Yes	• No	Comments:
			dilution. MDLs were greater than GCLS for RRO (MW-5D, GEI-3, ne (GEI-11, GEI-2).
e.	Data quali	ty or usability affe	cted? Explain. Comments:
1		uality and usabilit mination of their i	y of the data is not affected. The samples were diluted by the laboratory instruments.
C San	nples		
a.]	Method Bl	ank	
	i. One me	ethod blank reporte	ed per matrix, analysis and 20 samples? Comments:
	ii. All me	ethod blank results	less than PQL? Comments:
	iii. If abo	ve PQL, what sam	aples are affected? Comments:
NA		-	
	_		s) have data flags? If so, are the data flags clearly defined? Comments:
NA	MATERIAL CAR DANGER		
NA	v. Data q	uality or usability	affected? Explain. Comments:
NA NA	v. Data q	uality or usability	•
NA			•

6.

j	Yes	C No	Comments:
]			
]			
		• •	coveries (%R) reported and within method or laboratory limits or Petroleum methods 20%; all other analyses see the laboratory QC
	○ Yes	© No	Comments:
The pe	rcent recov	ery for acenaphthy	ylene was 121 %, which is greater than the upper limit of 117 %.
		oject specified DQ	rcent differences (RPD) reported and less than method or laboratory QOs? (AK Petroleum methods 20%; all other analyses see the
	• Yes	No	Comments:
,	v. If %R o	RPD is outside of	f acceptable limits, what samples are affected? Comments:
NA			
·	vi. Do the	affected samples(s) No) have data flags? If so, are the data flags clearly defined? Comments:
	vii. Data q	uality or usability a	affected? Explain. Comments:
No, thi	is compoun	d was not detected	I in the samples affected.
c. S	urrogates -	Organics Only	
:	i. Are surro	ogate recoveries rep	ported for organic analyses - field, QC and laboratory samples? Comments:
;	specified D pages)	QOs? (AK Petrole	overies (%R) reported and within method or laboratory limts or projecum methods 50-150 %R; all other analyses see the laboratory report
	C Yes	♠ No	Comments:

	iii. Do the s	,	h failed surrogate recoveries have data flags? If so, are the data flags
	C Yes	⊂ No	Comments:
ŧ	gate recover wise noted.	ries which are outs	side of the QC window are confirmed unless attributed to dilution or
	iv. Data qu	ality or usability a	affected? Explain.
			Comments:
NA			
	ater and Soil	<u>.</u>	s only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): r matrix, analysis and cooler? Comments:
	ii. All resu	Its less than PQL?	Comments:
,	iii. If above	e PQL, what samp	oles are affected? Comments:
NA			
	iv. Data qu	ality or usability a	affected? Explain. Comments:
NA			
e.	Field Duplic	eate	
	i. One field	duplicate submit	ted per matrix, analysis and 10 project samples? Comments:
	ii. Submitte	ed blind to lab? • No	Comments:
	iii. Precisio 30% water		ercent differences (RPD) less than specified DQOs? (Reccomended:
	C Yes	• No	Comments:
	f the RPDs v proximately		with exception of DRO in the duplicate from MW-5, which had a RPD

iv. Data quality or usability affected? C Yes No Comments:	
The data usability is not believed to be affected.	
f. Decontamination or Equipment Blank (if applicable)	
C Yes C No © Not Applicable	
i. All results less than PQL? C Yes C No Comments:	
ii. If above PQL, what samples are affected? Comments:	
iii. Data quality or usability affected? Explain. Comments:	
Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)	
a. Defined and appropriate? • Yes C No Comments:	
ompleted by: Barbara Orchard	
itle: Project Engineer in Training	Date: Dec 21, 2006
eport Name: FAIR - 2nd Semi-annual GWM Report - Unocal 306456(lab group 1006191)	Report Date:
irm: BBL	File Number:
Submit by E-Mail Print Form	Reset Form

Laboratory Data Review Checklist

1. Laboratory a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses? \bigcirc No • Yes 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? Comments: O Yes O No NA 2. Chain of Custody (COC) a. COC information completed, signed, and dated (including released/received by)? Comments: Yes C No b. Correct analyses requested? Yes Comments: O No 3. Laboratory Sample Receipt Documentation a. Sample/cooler temperature documented and within range at receipt $(4^{\circ} \pm 2^{\circ} \text{ C})$? Yes C No Comments: b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)? Yes C No Comments: c. Sample condidtion documented - broken, leaking (Methanol), zero headspace (VOC vials)? Yes Comments: O No Lab currently retains sample receipt form.

C Yes	C No	Comments:
NA		
e. Data quali	ty or usability affecte	ed? Explain.
		Comments:
NA		
ase Narrative		
a. Present and	d understandable?	
• Yes	○ No	Comments:
Brief.		
_	cies, errors or QC fai	lures identified by the lab?
• Yes	C No	Comments:
In report - by ea	ach result.	
in report of ce		
	orrective actions doc	umented? Comments:
c. Were all c	orrective actions doc	
c. Were all c Yes In report - by ea	orrective actions doce No ach result.	Comments:
c. Were all c Yes In report - by ea	orrective actions doce No ach result.	Comments: ity/usability according to the case narrative?
c. Were all c Yes Yes In report - by ea d. What is the	orrective actions doce No ach result.	Comments:
c. Were all c Yes In report - by ea d. What is th	orrective actions doce No ach result.	Comments: ity/usability according to the case narrative?
c. Were all c Yes Yes In report - by ea d. What is the	orrective actions doce No ach result.	Comments: ity/usability according to the case narrative?
c. Were all c Yes In report - by ea d. What is the	orrective actions doctor No ach result. The effect on data quather alyses performed/representations and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	Comments: ity/usability according to the case narrative? Comments: orted as requested on COC?
c. Were all c Yes In report - by ea d. What is the	orrective actions doctors No ach result.	Comments: lity/usability according to the case narrative? Comments:
c. Were all c Yes In report - by ea d. What is the NA amples Results a. Correct an Yes	orrective actions doctor No ach result. ne effect on data quath alyses performed/rep	Comments: Lity/usability according to the case narrative? Comments: orted as requested on COC? Comments:
c. Were all c Yes In report - by ea d. What is the NA amples Results a. Correct an Yes b. All applic	orrective actions doctor No ach result. The effect on data quather alyses performed/representations and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	Comments: Lity/usability according to the case narrative? Comments: orted as requested on COC? Comments:
c. Were all c Yes In report - by ea d. What is the NA amples Results a. Correct an Yes b. All applic	orrective actions doctor No ach result. The effect on data quather alyses performed/report No able holding times meaning to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	Comments: lity/usability according to the case narrative? Comments: orted as requested on COC? Comments:
c. Were all c Yes In report - by ea d. What is the NA amples Results a. Correct an Yes b. All applic Yes	orrective actions doctor No ach result. The effect on data quather alyses performed/report No able holding times meaning to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	Comments: lity/usability according to the case narrative? Comments: orted as requested on COC? Comments: et? Comments:

	Yes	C-No	Comments:
e.	Data quality	y or usability affec	cted? Explain. Comments:
NA			Commons.
C Sar	<u>mples</u>		
a.	Method Bla	ink	
		•	ed per matrix, analysis and 20 samples?
	• Yes	⊂ No	Comments:
	ii. All met	thod blank results	less than PQL?
	Yes	⊂ No	Comments:
	iii Ifabor	ve PQL, what sam	plac are affected?
	111. 11 400	ve i QE, what sam	Comments:
NA			•
NA			Comments:
NA			•
	iv. Do the	affected sample(s	Comments: s) have data flags? If so, are the data flags clearly defined?
NA NA	iv. Do the	affected sample(s	Comments: s) have data flags? If so, are the data flags clearly defined?
	iv. Do the	affected sample(s	Comments: s) have data flags? If so, are the data flags clearly defined? Comments: affected? Explain.
NA	iv. Do the	e affected sample(s	Comments: s) have data flags? If so, are the data flags clearly defined? Comments:
	iv. Do the	e affected sample(s	Comments: s) have data flags? If so, are the data flags clearly defined? Comments: affected? Explain.
NA NA	iv. Do the Yes v. Data qu	affected sample(s No No uality or usability a	Comments: s) have data flags? If so, are the data flags clearly defined? Comments: affected? Explain.
NA NA	iv. Do the Yes v. Data qu . Laboratory	e affected sample(s No uality or usability a	Comments: s) have data flags? If so, are the data flags clearly defined? Comments: affected? Explain. Comments:
NA NA	iv. Do the Yes v. Data qu . Laboratory	e affected sample(s No uality or usability a	Comments: s) have data flags? If so, are the data flags clearly defined? Comments: affected? Explain. Comments:
NA NA	iv. Do the Yes v. Data qu Laboratory i. Organic	e affected sample(s No Luality or usability a Control Sample/I	Comments: s) have data flags? If so, are the data flags clearly defined? Comments: affected? Explain. Comments: Duplicate (LCS/LCSD) Duplicate (LCS/LCSD)
NA NA	iv. Do the Yes v. Data qu Laboratory i. Organic Yes	c affected sample(s	Comments: s) have data flags? If so, are the data flags clearly defined? Comments: affected? Explain. Comments: Duplicate (LCS/LCSD) Duplicate (LCS/LCSD)

			coveries (%R) reported and within method or laboratory limits or Petroleum methods 20%; all other analyses see the laboratory QC
	• Yes	O No	Comments:
ACCURATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA			
		oject specified DC	ccent differences (RPD) reported and less than method or laboratory QOs? (AK Petroleum methods 20%; all other analyses see the
	• Yes	No No	Comments:
1			
	v. If %R or	RPD is outside of	f acceptable limits, what samples are affected? Comments:
NA			
	vi. Do the	affected samples(s) have data flags? If so, are the data flags clearly defined? Comments:
NA			
	vii. Data q	uality or usability a	affected? Explain. Comments:
NA			
c.	Surrogates -	Organics Only	
			ported for organic analyses - field, QC and laboratory samples? Comments:
	specified I	• •	overies (%R) reported and within method or laboratory limts or project eum methods 50-150 %R; all other analyses see the laboratory report
	pages) • Yes	C No	Comments:
	iii. Do the	-	h failed surrogate recoveries have data flags? If so, are the data flags
	○ Yes	C No	Comments:
NA			

iv. Data qual	ity or usability affec	ted? Explain. Comments:	
NA			
Water and Soil		y (GRO, BTEX, Volatile Chlorin trix, analysis and cooler? Comments:	nated Solvents, etc.):
Only one sample su	bmitted for this repo	ort.	
ii. All results C Yes	less than PQL?	Comments:	
iii. If above	PQL, what samples a	are affected? Comments:	
iv. Data qua	lity or usability affec	eted? Explain. Comments:	
	duplicate submitted p	per matrix, analysis and 10 project	ct samples?
C Yes	© No		
Only one sample su	ibmitted for this repo	ort, no duplicate.	
ii. Submitted	l blind to lab? No	Comments:	
iii. Precision 30% water,	•	nt differences (RPD) less than sp	ecified DQOs? (Reccomended:
○ Yes	O No	Comments:	
_	lity or usability affec	eted?	
C Yes	C No	Comments:	
mpleted by: Barbara	Orchard	·	
le: Project Engineer	in Training		Date: Dec 21, 2006
port Name: FAIR - 2 group 10	2nd Semi-annual GW 007714)	VM Report - Unocal 306456 (lab	Report Date:
n: BBL			File Number:
ubmit by E-Mail		Print Form	Reset Form

Attachment C

Sampling Data Sheets



			GROUNDWA	ATER SAMPLE	DATA SHE	ET			
Project Number:	44676			Sample Location (ie. MW-1): MW-23					_
Project Name:	Illinois and C	harles Stree	ets	Sample ID (ie. M	IW-1-W-yym	mdd):	MW-23-W-060913 9/13/2006		
Client:	BBL			Date Sample Co	llected:				
Sampler:	Julie Ahern			Time sampled:			1715		=
			V	Vell Information					_
			Casing						
Groundwater:	X		Diameter (in):	2		_a) Well Depth		20.42	
O.I.						b) Water Dept		12.73	
Other:			_			c) Water Colu		7.69	
						d) Calc. Purge	e voi. (gai):	1.2	
			Calcu	lating Purge Vol	ume				
Well Casing Diameter	Multiply c) by:			iamig i m go i oi		Sand Pack Diameter	Multiply c) by:		
2 4	0.16 0.65					8 10	0.71	7	
6	1.47					12 Note: assuming sand	1.28	sity	
Example 1- purging only	well casing volume					Example 2- purging	well casing and sa	nd pack volume	
Example 1- purging only 2-inch casing and 6-foot w One Purge Volume= 0.16	ater column X 6 = 0.96 gallons wa	ter				2-inch casing, 8-inch One Purge Volume=		ot water column 6) = 5.22 gallons water	
			FIEL	D MEASUREMEN	NTS				
	Volume		Conductivity		Ī	T		T	
Time	(gallons)	рН	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1702	1.25	7.16	0.582	5.8	clear	81			light sheen
1705	2.5	7.16	0.598	5.3	clear	57		_	faint odor
1710	3.75	7.17	0.597	5.3	clear	54		+	
T-1-11/-1 D.			0.75	<u> </u>	Face Davids	-1 (-1-)-	NI-		
Total Volume Pur			3.75 arbon-Like Odor	<u>.</u>	Free Produ	,	No Yes		
Odor: Purge Method (d i					Sheen (y/n)	•	165		
, ,	•	•		, ,					
Sample Method (disnosable ba	ailer teflon l	hailar suhmarsi	hle numn etc)					
Campic Mictioa (disposable be	anor, tonom	baller, submicro	bio pump, cto.)					
Well Integrity (cor	ndition of casin	a flush mou	ınt sealing nron	erly cement seal	intact_etc.)				
Well Integrity (cor Good	idition of dasin	ig, nasii mot	ant scaling prop	criy, coment scar	intact, ctc.)				
Danas des (costles			/						
Remarks (well red Good recovery	covery, unusua	ai conditions	/observations):						
,									
Duplicate Samp		None Colle			Analyses I	Requested:	GRO using		
Split Sample ID	: .	None Colle	ected		1		BTEX using EPA 8021B DRO/RRO using AK102/103		
					<u> </u>		טאט/אאט	using AK102/1	us
Signed:	Julie Ahern				_	Date:	10/30/200	6	_
Signed/reviewe	r·					Date:			

			GROUNDWA	ATER SAMPLE	DATA SHE	EET				
Project Number:	44676		0.1.00.1.2.1.1	Sample Location	_		MW-25			
Project Name:		Charles Stre	ets	Sample ID (ie. M	,		ndd): N/A			
Client:	BBL	<u> </u>		Date Sample Col			N/A			
Sampler:	Julie Ahern			Time sampled:	icolou.		N/A			
Sampler.	Julie Alleiti						IN//A			
			Casing	Well Information						
Groundwater:	Χ		_ Diameter (in):	4		a) Well Depth	(ft):	43.6		
						b) Water Depth		17.16		
Other:		17.03' to 17.	16' BTOC	-		c) Water Colur	. ,	26.44		
	No Sample	Collected				d) Calc. Purge	Vol. (gal):			
			Calcu	lating Purge Vol	ume					
Well Casing Diameter	Multiply c) by:	Τ	Calcu	nating Furge von	uiiie	Sand Pack Diameter	Multiply c) by:	T		
2 4	0.16 0.65	1				8 10	0.71	7		
6	1.47	1				12 Note: assuming sand	1.28 pack has 29% porc	sity		
Example 1- purging only 2-inch casing and 6-foot w		e				Example 2- purging v	well casing and sa	nd pack volume		
One Purge Volume= 0.16		/ater						6) = 5.22 gallons water		
			FIEL	D MEASUREMEN	ITS					
	Volume		Conductivity							
Time	(gallons)	pН	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other	
		+				+		+		
		1				1				
Total Volume Pur	rged (Gallons):			Free Produ	ct (y/n):	Yes			
Odor:				-	Sheen (y/n):				
Purge Method (di	isposable bail	er, teflon bai	ler, submersible	pump, etc.)						
Sample Method (disposable ba	ailer, teflon b	ailer, submersib	le pump, etc.)						
		ing, flush mo	unt sealing prop	erly, cement seal	intact, etc.)					
Monument cover	missing									
Remarks (well re	covery, unusi	ual conditions	s/observations):							
Product noted in	well during ga	auging								
				/8, and so water			ed in gradiei	nt estimation		
Duplicate Samp Split Sample ID		None Coll			Analyses	Requested:				
opiii oampie ID	·•	NOTIE COIL	CUEU							
Cianad:	اسانم ۸ امد -	n				Doto	10/20/202	6		
Signed:	Julie Aher	<u> </u>			·	Date:	10/30/200	υ		
Signed/reviewe	r:					Date:				

			GROUNDWA	TER SAMPLE	DATA SH	EET			
Project Number:	44676			Sample Location	on (ie. MW-1):	TH-1		
Project Name:	Illinois and C	harles Stree	ets	Sample ID (ie.	MW-1-W-yy	mmdd):	TH-1-W-0609	114	•
Client:	BBL			Date Sample C					•
Sampler:	Julie Ahern			Time sampled:			1100		
Саттргот.	Gaile 7 them		\A				1100		•
			Casing	ell Information					
Groundwater:	Χ		Diameter (in):	2		_a) Well Depth	(ft):	23.1	
						b) Water Dept		16.46	
Other:			_			c) Water Colu		6.64	
						d) Calc. Purge	Vol. (gal):	1.1	
			0.1.1						
Well Casing Diameter	Multiply c) by:		Calcula	ating Purge Vo	lume	Sand Pack Diameter	Multiply c) by:	1	
2	0.16					8	0.71		
4 6	0.65 1.47					10 12	1.28	\exists	
Example 1- purging only	well casing volume					Note: assuming sand Example 2- purging			
2-inch casing and 6-foot w	ater column					2-inch casing, 8-inch	sand pack, and 6-foo	ot water column	
One Purge Volume= 0.16	X 6 = 0.96 gallons wa	ter				One Purge Volume= (0.16 X 6) + (0.71 X 6	6) = 5.22 gallons water	
				MEASUREME	NTS				
 -	Volume		Conductivity	Temperature	0.1	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D: 1 10	0.1
Time	(gallons)	pH	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1039 1041	2	6.93 7.03	0.761 0.769	5.8 5.5	clear	40 62		-	mod sheen
1044	3	7.03	0.769	5.5	clear clear	108	1		strong odor
1044	1 3	7.10	0.730	3.5	Clear	100			
Total Values a Due	and (Callana).		2		Cros Drade	. a.t. (/ a) .	N _a	•	
Total Volume Pur	• , ,		3 Like Oder	•	Free Produ	,	No	_	
Odor: Purge Method (d i	Petroleum H			e pump, etc.)	Sheen (y/n).	Yes		
(, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , ,					
OI- Mathadl	diamana da la da		h = 11 - m = 15	h.l					
Sample Method (aisposable ba	aller, tetion i	baller, submersi	bie pump, etc.)					
Well Integrity (cor			unt sealing prop	erly, cement sea	al intact, etc.	.)			
New lock placed	on well monun	nent							
Remarks (well red	coverv. unusua	al conditions	/observations):						
Good recovery	,,		,						
Duplicate Samp		None Colle			Analyses	Requested:	GRO using		
Split Sample ID	:	None Colle	ected		4			g EPA 8021B	00
							טאט/אאט	using AK102/1	U3
Signed:	Julie Ahern				_	Date:	10/30/200	6	_
					-				•
Signed/reviewe	r:					Date:			

			CROUNDWA	TER SAMPLE	DATA CUI	EET			
Danis at Niverkan	44070			_			THO		
Project Number:	44676			Sample Location	,		TH-2		_
Project Name:	Illinois and C	Charles Stree	ets	Sample ID (ie. MW-1-W-yymmdd): T <u>H-2-W-060914</u>					=
Client:	BBL			Date Sample C	ate Sample Collected: 9/14/2006			_	
Sampler:	Julie Ahern	Julie Ahern Time sampled					1745		_
			W	ell Information					_
			Casing						
Groundwater:	X		Diameter (in):	2		a) Well Depth		21.58	
Otherw						b) Water Depth	. ,	14.7	
Other:			-			c) Water Colurd) Calc. Purge	, ,	6.88 1.1	
						u) Calc. Pulge	voi. (gai).		
			0.1.1	D					
Well Casing Diameter	Multiply c) by:		Calcul	ating Purge Vo	lume	Sand Pack Diameter	Multiply c) by:	1	
2	0.16					8	0.71		
6	0.65 1.47					10 12	1.28	-	
Farancia di mandiana andra		•				Note: assuming sand		-	
Example 1- purging only 2-inch casing and 6-foot w	ater column					Example 2- purging v 2-inch casing, 8-inch s	and pack, and 6-foo	ot water column	
One Purge Volume= 0.16	X 6 = 0.96 gallons wa	iter				One Purge Volume= (0.16 X 6) + (0.71 X (6) = 5.22 gallons water	
			FIELD	MEASUREME	NTS				
	Volume		Conductivity	Temperature					
Time	(gallons)	рН	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1725	1.25	7.20	0.627	5.9	olive gray	479			heavy sheer
1730	2.4	7.18	0.644	5.3	olive gray	608			very strong
1732	3.4	7.21	0.643	5.3	olive gray	509			odor
Total Volume Pur	rged (Gallons):		3.4		Free Produ	ct (y/n):	No	_	
Odor:	Petroleum H	,			Sheen (y/n)	:	Yes		
Purge Method (di	isposable bai	ler, tetion ba	ailer, submersibl	e pump, etc.)					
Sample Method (disposable ba	ailer, teflon	bailer, submersi	ble pump, etc.)					
Well Integrity (cor	ndition of casir	na. flush mou	unt sealing prope	erly, cement sea	al intact. etc.)				
Good		.g,aoo	and ocaming prop	ony, comon coc	ii iiitaat, oto.)				
Remarks (well red Good recovery	covery, unusua	al conditions	/observations):						
Good recovery									
Duplicate Samp	ole ID:	None Colle	ected		Analyses F	Requested:	GRO using	ι ΔΚ101	
Split Sample ID		None Colle			7 trialy 303 i	requesteu.		g EPA 8021B	
								using AK102/1	03
Ciana a di	India Al-					Data	40/00/000		
Signed:	Julie Ahern	l			-	Date:	10/30/200	U	_
Signed/reviewe	r:					Date:			

			GROUNDW/	ATER SAMPLE	DATA SHE	EET			
Project Number:	44676			Sample Location	(ie. MW-1):		TH-5		_
Project Name:	Illinois and C	harles Stree	ets	Sample ID (ie. MW-1-W-yymmdd):			TH-5-W-0609	-	
Client:	BBL			Date Sample Col			9/14/2006		•
Sampler:	Julie Ahern			Time sampled:			1130		-
			V	Well Information					
			Casing						
Groundwater:	X		Diameter (in):	2		a) Well Depth		22.33	
Other:						b) Water Deptlc) Water Colur		13.63 8.7	
Other.			•			d) Calc. Purge	. ,	1.4	
						.,	(3**)		
			Calcu	lating Purge Vol	ume				
Well Casing Diameter	Multiply c) by:			<u> </u>		Sand Pack Diameter	Multiply c) by:		
2 4	0.16 0.65					8 10	0.71	₫	
6	1.47					12 Note: assuming sand	1.28 I pack has 29% poros	sity	
Example 1- purging only 2-inch casing and 6-foot w	vater column					2-inch casing, 8-inch	sand pack, and 6-foo	ot water column	
One Purge Volume= 0.16	X 6 = 0.96 gallons wat	er				One Purge Volume= (0.16 X 6) + (0.71 X t	6) = 5.22 gallons water	
				D MEASUREMEN	NTS		_		
Time	Volume (gallons)	Hq	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1113	1.5	7.24	0.582	4.8	light gray	62			heavy
1118	3	7.28	0.587	4.6	gray	108			sheen
1121	4.25	7.31	0.589	4.6	light gray	83	 	 	4
	+		 '	 	 	<u> </u>	 	+	strong odor
						<u> </u>	<u> </u>		
Total Volume Pur			4.25	-	Free Produ	,	No	_	
Odor: Purge Method (d i	Petroleum Hylisposable bail			le pump, etc.)	Sheen (y/n)	<u>;:</u>	Yes		
, ,		,		, ,					
Sample Method (disposable ba	ailer teflon b	nailer submersi	ible nump, etc.)					
oumpio momo ,	ulopooda		ranor, occinio	010 pamp, 010.,					
Well Integrity (co.	ndition of casin	na flush mou	int sealing prop	erly, cement seal	intact_etc.)				
Good	idition of ode	9, 110011 1110	III oodiii g piep	only, comon cea.	iritaot, oto.,				
Remarks (well red	COVORY HIDHELI	al conditions	/abaaryations):						
Good Recovery.				ged water.					
				<u> </u>					
Duplicate Samp		None Colle			Analyses F	Requested:	GRO using		
Split Sample ID	:	None Colle	cted		-			g EPA 8021B using AK102/1	์กร
 					<u> </u>				00
Signed:	Julie Ahern				-	Date:	10/30/200	6	-
Sianed/reviewer:						Date:			

Project Number: Millinois and Charles Streets Sample Location (ie. MW-1): TH-7-W-060914				GROUNDWA	TER SAMPLE	DATA SH	EET				
Project Name: Illinois and Charles Streets Sample ID (le. MW-1-W-yymmdd): TH-7-W-060914 Sampler: Julie Ahern Time sampled: 1015	Project Number:	44676						TH-7			
Date Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Sample Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collected Collecte			harles Stree	2ts			,		14	•	
Sampler: Julie Ahern	1		manes ource	713			minaaj.			-	
Casing Diameter (in): 2					•					-	
Casing Diameter (in): 2 a) Well Depth (ft): 23.5	Sampler:	Julie Anern			Time sampled:			1015			
Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Condition Cond					ell Information						
Discourse	Groundwater:	Χ			2		a) Well Deoth	(ft):	23.5		
Calculating Purge Volume Calculating Purge Volume Sand Pack Diameter Multiply (1) by:	Grodina water.						- '	` '			
Calculating Purge Volume Send Peol. Dismoter Multiply of by:	Other:							` '	` '		
Second Peach Diameter Multiply to by: 3				=			d) Calc. Purge	Vol. (gal):	1.2		
Second Peach Dismension Multiply to 107:											
Second Peach Dismension Multiply to 107:				Calcul	ating Purge Vo	lume					
10											
Example 1- purging only well casing volume 2-inch casing and 6-box water column Once Purge Volume- 0.16 X 6 = 0.56 gallons water Time								0.71	-		
Example 1- purpling only well casing and pack volume Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation Candidation C	6	1.47							nity.		
Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Cons							Example 2- purging	well casing and sar	nd pack volume		
Time (gallons) pH (mS) (F) Color Turbidity Redox Dissolved O2 Other 1002 1.25 6.93 0.562 5.9 orange 444			iter								
Time (gallons) pH (mS) (F) Color Turbidity Redox Dissolved O2 Other 1002 1.25 6.93 0.562 5.9 orange 444											
Time (gallons) pH (mS) (F) Color Turbidity Redox Dissolved O2 Other		Volume				INTS	T		T		
1007 2.5 7.09 0.539 5.5 clear 89 faint odor 1011 3.5 7.18 0.535 5.4 clear 52 Total Volume Purged (Gallons): 3.5 Free Product (y/n): No Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected None Collected None Collected Decking Cap Wile Ahern Date: 10/30/2006	Time		рН	,	· ·	Color	Turbidity	Redox	Dissolved O ₂	Other	
1007 2.5 7.09 0.539 5.5 clear 89 faint odor 1011 3.5 7.18 0.535 5.4 clear 52 Total Volume Purged (Gallons): 3.5 Free Product (y/n): No Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected None Collected None Collected Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposable Disposa	1002	1.25	•	0.562	5.9	orange	1			mod sheen	
Total Volume Purged (Gallons): 3.5 Free Product (y/n): Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected None Collected Split Sample ID: None Collected DRO/RRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006	1007	2.5	7.09	0.539	5.5	1	89			faint odor	
Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected Analyses Requested: GRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006	1011	3.5	7.18	0.535	5.4	clear	52				
Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected Analyses Requested: GRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006											
Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected Analyses Requested: GRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006											
Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected Analyses Requested: GRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006	Total Volume Pur	ged (Gallons):		3.5		Free Produ	ct (y/n):	No			
Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected Analyses Requested: GRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006		• , ,		arbon-Like Odor	•		,	Yes	_		
Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected DRO/RRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006	Purge Method (di	isposable bai	ler, teflon ba	ailer, submersibl	e pump, etc.)	•					
Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected DRO/RRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006											
Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected DRO/RRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006	Sample Method (disposable b	ailer, teflon	bailer. submersi	ble pump, etc.)						
Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected DRO/RRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006		•	,	•	,						
Good. Placed locking cap w/ Chevron lock (Master lock w/ 3910 key) on well Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected DRO/RRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006	M/- II leate emite /	Prof		t		-1:					
Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected DRO/RRO using AK101 BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006	• • •		-	•	•)				
Duplicate Sample ID: None Collected Analyses Requested: GRO using AK101 Split Sample ID: None Collected BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006	G00a. 1 lacca loc	King cap w/ Oi	icvion lock (Waster lock W/ C	33 TO KCy) OII WC	, 11					
Duplicate Sample ID: None Collected Analyses Requested: GRO using AK101 Split Sample ID: None Collected BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006		covery, unusua	al conditions	/observations):							
Split Sample ID: None Collected BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006	Good recovery										
Split Sample ID: None Collected BTEX using EPA 8021B DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006	D II 1 0		N 0 "			I		000 :	A1(404		
DRO/RRO using AK102/103 Signed: Julie Ahern Date: 10/30/2006						Analyses I	Requested:				
Signed: Julie Ahern Date: 10/30/2006	Split Sample ID	•	None Colle	ecteu		1				03	
						•					
Signed/reviewer: Date:	Signed:	Julie Ahern	<u> </u>			=.	Date:	10/30/200	6	_	
	Signed/reviewe	r:					Date:				

			GROUNDWA	ATER SAMPLE	DATA SHE	ET			
Project Number:	44676		CKCCKDWA	Sample Location	_		TH-10		
Project Name:	Illinois and C	harles Stree		Sample ID (ie. M	,	mdd)· T	H-10-W-0609		•
Client:	BBL	manes ou ce	,10	Date Sample Col	• •	ilda). i	9/13/2006	710	•
				•	liected.				•
Sampler:	Julie Ahern			Time sampled:			1630		<u> </u>
				Well Information					
Groundwater:	Χ		Casing Diameter (in):	2		a) Well Depth ((ft):	23.92	
			• ` ′			b) Water Depth		14.53	
Other:			_			c) Water Colum	nn (ft):	9.39	
						d) Calc. Purge	Vol. (gal):	1.5	
			Calcu	lating Purge Vol	ume		1	_	
Well Casing Diameter 2	Multiply c) by: 0.16					Sand Pack Diameter 8	Multiply c) by: 0.71	4	
4 6	0.65 1.47					10 12	1 1.28	‡	
	•					Note: assuming sand	pack has 29% poros		
Example 1- purging only 2-inch casing and 6-foot wa	vater column					Example 2- purging v 2-inch casing, 8-inch s	sand pack, and 6-foo	t water column	
One Purge Volume= 0.16 2	X 6 = 0.96 gallons wat	ter				One Purge Volume= (0).16 X 6) + (0.71 X 6	i) = 5.22 gallons water	
			FIEL	D MEASUREMEN	NTS				
Time	Volume (gallons)	nΠ	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1611	1.5	pH 6.99	0.602	6.1	olive	138	Redux	Dissolved O ₂	no sheen
1615	3	7.04	0.590	5.0	clear	72			no odor
1620	4.5	7.11	0.593	4.8	clear	89			
			<u> </u>	<u> </u>	<u> </u>	<u> </u>			
Total Volume Pur	rged (Gallons):		4.5		Free Produc	 ct (y/n):	No		
Odor:	None			•	Sheen (y/n):	:	No	_	
Purge Method (di	•			,					
Dedicated Pump	not working an	iymore. Baile	ed well instead.						
Sample Method (disposable ba	ailer, teflon l	pailer, submersi	ble pump, etc.)					
Well Integrity (cor	ndition of casin	na flush mou	ınt sealing prop	erly cement seal	intact etc.)				
One of three bolt					III.aot, 5.5.,				
		. 100							
Remarks (well recovery, unusual conditions/observations): Good recovery									
0000 100010.,									
Duplicate Samp	ole ID:	TH-10-WD	-060913 @ 17	700	Analyses R	Requested:	GRO using	AK101	
Split Sample ID:		None Colle]	- 1	BTEX using	g EPA 8021B	
					<u> </u>		DRO/RRO	using AK102/1	03
Signed:	igned: Julie Ahern					Date:	10/30/2006	6	-
Signed/reviewer	aned/reviewer:					Date:			

Project Name:				000111101114	TED 0414D1					
Project Name:				GROUNDWA						
Date Sample Collected Sample Collected Sample Collected Sample Collected Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample	Project Number:	44676			Sample Locati	on (ie. MW-1) :	TH-13		-
Sampler: Julie Aher	Project Name:	Illinois and C	harles Stree	ets	Sample ID (ie.	MW-1-W-yy	mmdd):	Г <u>Н-13-W-060</u> 9	914	_
Casing Diameter (in): 2 a) Well Depth (it): 20.60	Client:	BBL			Date Sample (Collected:		9/14/2006		_
Casing Diameter (in): 2	Sampler:	Julie Ahern			Time sampled	:		1645		
Casing Diameter (in): 2	·			١٨	/oll Informatio	n				
Other:					ren imormatio	11				
Calculating Purge Volume	Groundwater:	Χ			2		_ a) Well Depth	(ft):	20.60	
Calculating Purge Volume Well Casing Dunneter Multiply of by: 3 0.016 5 14.77 2 0.016 6 14.77 8 14.77 8 14.77 8 14.77 8 14.77 9 14.77 15 12.77 16 14.77 17 14.77 18 18 18 18 18 18 18 18							b) Water Dept	h (ft):	12.99	
Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purge Volume Calculating Purger Volume Calculating Purger Volume Calculating Purger Volume Calculating Purger Volume Calculating Purger Volume Calculating Purger Volume Calculating P	Other:			_			,	` '		
Met Cash Dismeter Multiply c) by 2 3 4 0.85 6 1.37 12 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 12							d) Calc. Purge	Vol. (gal):	1.2	
Met Cash Dismeter Multiply c) by 2 3 4 0.85 6 1.37 12 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 12										
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1									_	
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Signed: Julie Ahern Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date			1							
Time (gallons) pH (conductivity (mS) (F) Color Turbidity Redox Dissolved O2 Other (mS) (F) Color Turbidity Redox Dissolved O2 Other (mS) (gallons) pH (mS) (rF) Color Turbidity Redox Dissolved O2 Other (mS) (pS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox Dissolved O2 Other (mS) Redox			ater							
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Time (gallons) pH (mS) (F) Color Turbidity Redox Dissolved O2 Other 1623 1.2 7.04 0.598 7.7 clear 47 mod sheen 1631 2.2 7.11 0.609 6.8 clear 24 mod odor 1635 3.3 7.14 0.613 6.6 clear 24 mod odor 1635 3.3 7.14 0.613 6.6 clear 24 mod odor Total Volume Purged (Gallons): 3.3 Free Product (y/n): No Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Collected None Col		Volume						T		
1631 2.2 7.11 0.609 6.8 clear 24	Time		рН	,			Turbidity	Redox	Dissolved O ₂	Other
1635 3.3 7.14 0.613 6.6 clear 24	1623	1.2	7.04	0.598	7.7	clear	47			mod sheen
Total Volume Purged (Gallons): 3.3 Free Product (y/n): Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected None Collected None Collected None Collected Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. GRO/DRO/RRO by AK101/102/103 BTEX & MIBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006	1631	2.2	7.11	0.609	6.8	clear	24			mod odor
Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected Analyses Requested: GRO/DRO/RRO by AK101/102/103 BTEX & MtBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006	1635	3.3	7.14	0.613	6.6	clear	24			
Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected Analyses Requested: GRO/DRO/RRO by AK101/102/103 BTEX & MtBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006										
Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected Analyses Requested: GRO/DRO/RRO by AK101/102/103 BTEX & MtBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006										
Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): Yes Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected Analyses Requested: GRO/DRO/RRO by AK101/102/103 BTEX & MtBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006	Total Volume Pur	ged (Gallons):		3.3		Free Produ	uct (y/n):	No		
Purge Method (disposable bailer, teflon bailer, submersible pump, etc.) Sample Method (disposable bailer, teflon bailer, submersible pump, etc.) Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: None Collected None Collected None Collected None Collected Date: Julie Ahern Date: 10/30/2006		,			•		. ,		_	
Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected Analyses Requested: GRO/DRO/RRO by AK101/102/103 BTEX & MtBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006			,		e pump, etc.)	()	,			
Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected Analyses Requested: GRO/DRO/RRO by AK101/102/103 BTEX & MtBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006										
Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.) Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected Analyses Requested: GRO/DRO/RRO by AK101/102/103 BTEX & MtBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006	Sample Method (disnosable ba	ailer teflon l	nailer suhmersi	hle numn etc)					
Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006	Campio Motrica (alopocable be	anor, tonom	oanor, oabriioroi	olo pamp, olo.)					
Difficult to remove bailer due to pvc location (directly under bolt ear of well monument); bailing process was very slow as a result. Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006					-					
Will use peristaltic pump in future sampling events. Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected None Collected Date: Date: Date: Remarks (well recovery, unusual conditions/observations): GRO/DRO/RRO by AK101/102/103 BTEX & MtBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Date: 10/30/2006										
Remarks (well recovery, unusual conditions/observations): Good recovery Duplicate Sample ID:					boit ear of well	monument);	balling process v	was very slow	as a result.	
Duplicate Sample ID: Split Sample ID: None Collected None Collected None Collected None Collected None Collected Date: Date: Analyses Requested: GRO/DRO/RRO by AK101/102/103										
None Collected BTEX & MtBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011	,	,,		,						
None Collected BTEX & MtBE by EPA 8021B PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011										
PAHs by 8270 RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006	Duplicate Samp	ole ID:	None Colle	ected		Analyses	Requested:			
RCRA Metals by 6010/7470 VOC by 8260B; EDB by 8011	Split Sample ID	:	None Colle	ected						21B
VOC by 8260B; EDB by 8011 Signed: Julie Ahern Date: 10/30/2006										
Signed: Julie Ahern Date: 10/30/2006										
<u> </u>								VOC by 82	60B; EDB by 8	3011
Signed/reviewer: Date:	Signed: Julie Ahern					_	Date:	10/30/200	6	_
	Signed/reviewe	r:					Date:			

Ī									
		(GROUNDWA	TER SAMPLE	E DATA SHI	EET			
Project Number:	44676			Sample Location	on (ie. MW-1)	•	TH-17		_
Project Name:	Illinois and C	harles Street	ts	Sample ID (ie.	MW-1-W-yyn	nmdd): 1	H-17-W-060	914	_
Client:	BBL			Date Sample C	Collected:		9/14/2006		_
Sampler:	Julie Ahern			Time sampled:			1530		-
			VA	/ell Information					
			Casing	ren iniormation					
Groundwater:	X		Diameter (in):	2		a) Well Depth		22.33	
						b) Water Deptl	` '	11.93	
Other:						c) Water Colur	` '	10.4	
						d) Calc. Purge	voi. (gai):	1.7	
			0.1.1	D. V					
Well Casing Diameter	Multiply c) by:		Calcul	ating Purge Vo	olume	Sand Pack Diameter	Multiply c) by:	1	
2	0.16					8	0.71	_	
4 6	0.65 1.47					10 12	1.28		
Example 1- purging only	well casing volume					Note: assuming sand Example 2- purging		·-	
2-inch casing and 6-foot w	ater column					2-inch casing, 8-inch s	and pack, and 6-foo	t water column	
One Purge Volume= 0.16	A 6 = 0.96 gallons wai	lei				One Purge volume= (0.16 × 6) + (0.71 × 6	6) = 5.22 gallons water	
				MEASUREME	NTS		_		
Time	Volume	ъЦ	Conductivity	Temperature	Color	Turbidity	Dodov	Dissalved O	Othor
Time	(gallons)	pH	(mS)	(F) 5.7	Color	Turbidity	Redox	Dissolved O ₂	Other
1509 1515		1.75 7.18 0.614 3.75 7.24 0.621			clear	109 93			mod sheen mod odor
1519	5	7.24	0.621	4.7 4.4	light gray	97			mod odor
.0.0		0	0.02.		g gy	<u> </u>			
Total Volume Pur	and (Callons).		5		Free Produ	ct (v/n):	No		
Odor:	Petroleum H	•		-	Sheen (y/n)	,	Yes	_	
Purge Method (di				le pump, etc.)	Oncon (y/m)	•	100		
Sample Method (disposable ba	iler teflon b	ailer submersi	ble nump etc.)					
Campio monica (шоровально по		u, oub	э.о рар, ото.,					
			. "						
Well Integrity (cor Good. Placed loc					al intact, etc.)				
Good. I laced loc	King cap w/ ivia	ister lock (w/	2001 Key) OIT	Well					
Remarks (well red	covery, unusua	al conditions/	observations):						
Good recovery									
Describe et a Commo	I- ID:	Nana Oalla	-1- d		ΙΔ		000/000	/DDO h AK40	4/400/400
Duplicate Samp Split Sample ID		None Collection			Analyses i	Requested:		RRO by AK10 ⁻ BE by EPA 802	
Split Sample ID	•	None Colle	cieu				PAHs by 8		210
								als by 6010/747	70
							VOC by 82	60B; EDB by 8	011
						_			
Signed: Julie Ahern					_	Date:	10/30/200	6	-
Signed/reviewe	r:					Date:			

			GROUNDWA	ATER SAMPLE	DATA SHE	EET			
Project Number:	44676			Sample Location	(ie. MW-1):		TH-18		-
Project Name:	Illinois and C	harles Stree	ets	Sample ID (ie. M	W-1-W-yym	mdd): T	H-18-W-0609)14	_
Client:	BBL			Date Sample Col	llected:		9/14/2006		
Sampler:	Julie Ahern			Time sampled:			1430		•
			Casing	Well Information					
Groundwater:	Χ		Diameter (in):	2		a) Well Depth		21.4	
i						b) Water Depth	` '	11.53	
Other:			_			c) Water Colum	` '	9.87	
						d) Calc. Purge	Vol. (gal):	1.6	
	1		Calcu	lating Purge Volu	ume	T	T	T	
Well Casing Diameter 2	Multiply c) by: 0.16					Sand Pack Diameter 8	Multiply c) by: 0.71	4	
4 6	0.65 1.47					10 12	1 1.28	7	
						Note: assuming sand	pack has 29% poros	•	
Example 1- purging only 2-inch casing and 6-foot w	vater column					Example 2- purging v 2-inch casing, 8-inch s	sand pack, and 6-foot	t water column	
One Purge Volume= 0.16	X 6 = 0.96 gallons water	er				One Purge Volume= (J.16 X 6) + (0.71 X 6) = 5.22 gallons water	
			FIEL	D MEASUREMEN	ITS				
	Volume		Conductivity			Τ		T	
Time	(gallons)	рН	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1405	1.75	7.19	0.671	5.0	olive	175	<u> </u>	 	no sheen
1410	3.5	7.23	0.690	4.4	beige	197	1	+	faint odor
1415	4.9	7.26	0.694	4.1	beige	242	1	+	
	+		 		<u> </u>	+	1	+	
<u> </u>			<u>.</u>		<u> </u>	<u></u>	<u></u>	<u></u>	<u>L</u>
Total Volume Pur	• , ,		4.9	_	Free Produ	,	No	_	
Odor: Purge Method (d i			arbon-Like Odor		Sheen (y/n)):	No		
Furge Mourou (4.	13posabie ba	CI, tonon so	iller, submorois.	e pump, c.c.,					
			 						
Sample Method (disposable ba	iller, teflon t	pailer, submersi	ble pump, etc.)					
				erly, cement seal i					
Good. Placed loc	king cap w/ Ch	evron lock (Master lock w/ 3	3910 key) on well					
Remarks (well red	covery, unusua	al conditions	/observations):						
Good recovery	Jovory, arraous	.1 001101101.0,	Obooi valiono,.						
Duplicate Samp		None Colle		-	Analyses I	Requested:	GRO using		
Split Sample ID					g EPA 8021B				
							DRO/RRO	using AK102/1	03
Signed:	Julie Ahern					Date:	10/30/2006	3	
					•				
Signed/reviewe	r:				Date:				

			GROUNDWA	TER SAMPLE	DATA SHE	EET			
Project Number:	44675			Sample Location	(ie. MW-1):		AR-81		_
Project Name:	401 Drivewa	y Street		Sample ID (ie. M	W-1-W-yym	mdd): A	R-81-W-0609	12	_
Client:	BBL			Date Sample Co	llected:		9/12/2006		_
Sampler:	Julie Ahern			Time sampled:			1415		_
			V				-		-
			Casing	Vell Information					
Groundwater:	Χ		Diameter (in):	4		_a) Well Depth ((ft):	18.59	
						b) Water Depth		13.3	
Other:			_			c) Water Colun	` ,	5.29	
						d) Calc. Purge	Vol. (gal):	3.4	
			2.1						
Well Casing Diameter	Multiply c) by:		Calcu	lating Purge Vol	ume	Sand Pack Diameter	Multiply c) by:		
2	0.16					8	0.71	1	
4 6	0.65 1.47					10 12	1 1.28		
Evample 1- purging only	well casing volume	-				Note: assuming sand Example 2- purging v		•	
Example 1- purging only 2-inch casing and 6-foot w	ater column	4				2-inch casing, 8-inch s	and pack, and 6-foot	water column	
One Purge Volume= 0.16	X 6 = 0.96 gailons wa	ter				One Purge Volume= (0	J.16 X 6) + (U.71 X 6)	= 5.22 gallons water	
			FIEL	D MEASUREMEN	NTS				
	Volume		Conductivity						
Time	(gallons)	pН	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1357	3.5	7.36	0.668	5.4	clear	18	Not	Not	moderate
1404	7	7.28	0.646	4.7	clear	23 12	Measured	Measured	odor
1413	10.2	7.29	0.641	4.7	clear	12			no sheen
						†			
T : 1) / 1	1.(0.11)		10.0	I		1 (/)	N.	1	
Total Volume Pur	• , ,		10.2		Free Produ	,	No	_	
Odor: Purge Method (d i	Petroleum H	ydrocarbon- ler teflon ba	-LIKE Odor ailer, submersibl	e numn etc)	Sheen (y/n):	No		
r arge metrica (ar	ioposabie bai	ici , tonon be	anor, odbinioroibi	o pamp, oto.)					
Sample Method (disposable ba	ailer, teflon	bailer, submersi	ble pump, etc.)					
Well Integrity (cor	ndition of casir	ng, flush mou	unt sealing prop	erly, cement seal	intact, etc.)				
Replaced well ca	p in June. An o	object is floa	ting on water su	rface; occaisional	lly struck so	mething with bail	er, but cannot	discern object	
Remarks (well red	COVERY LIBURIE	al conditions	(observations):						
Good recovery	covery, unusua	ai conditions	observations).						
,									
Duplicate Samp	le ID:	None Colle	ected		Analyses	Requested:	GRO/BTEX	using AK101/	8021B
Split Sample ID	:	None Colle	ected			·	DRO/RRO ι	using AK102/1	03
Signed:	Julie Ahern					Date:	10/30/2006	;	
					•				-
Signed/reviewe	r:				Date:				

			GROUNDWA	TER SAMPLE	DATA SHE	ET			
Project Number:	44675			Sample Location	(ie. MW-1):		AR-85		
Project Name:	401 Drivewa	v Street		Sample ID (ie. M	W-1-W-vvmı	mdd): A	R-85-W-0609	12	-
Client:	BBL	,		Date Sample Col		,	9/12/2006		-
Sampler:	Julie Ahern			Time sampled:	mootod.		1515		-
Campier.	Julio Ariom						1010		-
			Casing	Vell Information					
Groundwater:	Х		Diameter (in):	4		a) Well Depth	(ft):	17.7	
						b) Water Depth		13.45	
Other:			_			c) Water Colur	. ,	4.25	
						d) Calc. Purge	Vol. (gal):	2.8	
			Calau	lating Purge Vol	umo				
Well Casing Diameter	Multiply c) by:		Calcu	lating Furge von	uiiie	Sand Pack Diameter	Multiply c) by:		
2 4	0.16 0.65					8 10	0.71 1	∄	
6	6 1.47					12 Note: assuming sand	1.28	<u></u>	
Example 1- purging only 2-inch casing and 6-foot w	well casing volume					Example 2- purging v	well casing and sand	d pack volume	
2-inch casing and 6-foot w One Purge Volume= 0.16	vater column X 6 = 0.96 gallons wa	ter				2-inch casing, 8-inch s One Purge Volume= (
			CICI	D MEASUREMEN	ITC				
	Volume		Conductivity	D MEASUREMEN		T		Т	
Time	(gallons)	рН	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1454	2.7	7.36	0.625	6.4	clear	34	Not	Not	faint odor
1500	5.5	7.25	0.608	5.4	clear	25	Measured	Measured	<u> </u>
1507	8.3	7.22	0.598	5.3	clear	11		 	no sheen
								1	
Total Valuma Dur	rand (Callana)		0.2	l.	Froe Drodu	ot (v/o):	No	. <u>L</u>	
Total Volume Pur Odor:	ged (Gallons): Petroleum H		8.3 Like Odor	•	Free Production Sheen (y/n)		No No	_	
Purge Method (d i				e pump, etc.)	Officerr (y/rr)	/-	110		
Sample Method (disposable b	ailer teflon	hailer submersi	ble nump etc.)					
Campio monioa (аторосавто в	and, tonon	banor, babinoro	olo pamp, oto.)					
Mall late arity (see	adition of again	a fluch mai	int acaling prop	arly coment and	intact ata\				
Well Integrity (cor Good	ndition of casir	ig, ilush mol	ant sealing prop	eny, cement sear	intact, etc.)				
Remarks (well red Good recovery.	covery, unusua	al conditions	/observations):						
Good recovery.									
Duplicate Samp	ole ID:	None Colle	ected		Analyses F	Requested:	GRO/BTEX	using AK101/8	8021B
Split Sample ID		None Colle]	•		using AK102/1	
Signed: Julie Ahern						Date:	10/30/2006	j	
					•				-
Signed/reviewe	gned/reviewer:				Date:				

			GROUNDWA	ATER SAMPLE	DATA SH	EET			
Project Number:	44675			Sample Location	(ie. MW-1):		MW-1		_
Project Name:	401 Drivewa	y Street		Sample ID (ie. M	IW-1-W-yym	nmdd):	MW-1-W-0609	12	_
Client:	BBL			Date Sample Co	llected:		9/12/2006		_
Sampler:	Julie Ahern			Time sampled:			1430		_
			V	Vell Information					-
			Casing						
Groundwater:	X		Diameter (in):	2 "		_a) Well Depth	• •	20.79	
O.I						b) Water Dept		12.47	
Other:			_			c) Water Colu		8.32	
						d) Calc. Purge	voi. (gai):	1.3	
			Calcu	lating Purge Vol	ume				
Well Casing Diameter	Multiply c) by:			idinig i digo roi	41110	Sand Pack Diameter	Multiply c) by:		
2	0.16 0.65					8 10	0.71	+	
6	<u>'</u>					12 Note: assuming sand	1.28 I nack has 29% norosi	ity.	
Example 1- purging only well casing volume -inch casing and 6-foot water column One Purge Volume= 0.16 X 6 = 0.96 gallons water						Example 2- purging	well casing and sand	d pack volume	
One Purge Volume= 0.16	ater column X 6 = 0.96 gallons wa	ter				2-inch casing, 8-inch of One Purge Volume= (
			FIFI	D MEASUREMEN	NTS				
	Volume		Conductivity	INCAGOREMEN			Τ		Ī
Time	(gallons)	рН	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1315	1.25	7.20	0.625	7.3	olive	106	Not	Not	mod odor
1319	2.75	7.23	0.592	6.3	olive 	50	Measured	Measured	very light
1322	4	7.28	0.595	6.1	olive	63	+		sheen
Total Volume Pur	raed (Callone):		4	•	Free Produ	ict (v/n):	No	•	•
Odor:	Petroleum H			-	Sheen (y/n		Yes	_	
Purge Method (d i				le pump, etc.)	Choon (y/m	<i>)</i> -	100		
Sample Method (disposable ba	ailer, teflon	bailer, submersi	ble pump, etc.)					
, ,	•								
Well Integrity (cor	ndition of casin	ıa. flush moı	unt sealing prop	erly, cement seal	intact, etc.)				
Good		3,	31 4	,,	,				
Remarks (well red	COVORY LIBURIUS	al conditions	/observations):						
Good recovery	covery, unusua	ai conditions	vouservations).						
Duplicate Samp		None Colle			Analyses	Requested:		using AK101/	
Split Sample ID	:	None Colle	ected		_		DRO/RRO	using AK102/1	03
Signed:	Signed: Julie Ahern				Date: 10/30/2006		_		
Signed/reviewe						Date:			

			GROUNDWA	TER SAMPLE	DATA SH	EET			
Project Number:	44675			Sample Location	n (ie. MW-1)	:	MW-2		_
Project Name:	401 Drivewa	y Street		Sample ID (ie. I	MW-1-W-yyn	nmdd): N	1W-2-W-0609	12	-
Client:	BBL			Date Sample C			9/12/2006		_
Sampler:	Julie Ahern			Time sampled:			1655		-
Сатрют.	Galle 7 (Hell)						1000		
			Casing	ell Information					
Groundwater:	Χ		Diameter (in):	2"		a) Well Depth (ft):	20.6	
						b) Water Depth	` '	13.26	
Other:			_			c) Water Colun		7.34	
						d) Calc. Purge	Vol. (gal):	1.2	
Well Casing Diameter	Multiply of by		Calcul	ating Purge Vo	lume	Sand Pack Diameter	Multiply c) by:	T	
2	Multiply c) by: 0.16					8	0.71	_	
6	0.65 1.47					10 12	1 1.28		
Example 1- purging only	well casing volume					Note: assuming sand Example 2- purging v		-	
2-inch casing and 6-foot w	ater column					2-inch casing, 8-inch s	and pack, and 6-foot	water column	
One Purge Volume= 0.16	X 6 = 0.96 gallons wa	ter				One Purge Volume= (0	1.16 X 6) + (0.71 X 6)	= 5.22 gallons water	
				MEASUREME	NTS				
Ti	Volume	-11	Conductivity	Temperature	0-1	To code thatter o	Darley	Discolor d O	Other
Time	(gallons)	pH 0.04	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1644	1.25	6.84	0.750	6.4	light gray	310	Not	Not	strong odor
1647 1651	2.5 3.5	6.92 6.95	0.723 0.720	5.8 5.8	light gray	276 211	Measured	Measured	mod sheen
1031	3.3	0.93	0.720	3.6	light gray	211			
T	. (0 !!)								
Total Volume Pur	• ,		3.5	i	Free Produ	,	No	_	
Odor: Purge Method (d	Petroleum H			e numn etc)	Sheen (y/n)	:	Yes		
r arge memoa (a	ioposable bai	ioi, tonon be	mor, submicroidi	e pamp, etc.)					
Sample Method (disposable ba	ailer, tetion i	oailer, submersi	ble pump, etc.)					
Well Integrity (cor	ndition of casin	g, flush mou	ınt sealing prop	erly, cement sea	ıl intact, etc.)				
Good									
Remarks (well re-	covery, unusua	al conditions	/observations):						
Good recovery									
Duplicate Samp		None Colle			Analyses F	Requested:		using AK101/8	
Split Sample ID	:	None Colle	ected		4		DRO/RRO	using AK102/1	03
Signed:	Julie Ahern				_	Date:	10/30/2006	<u> </u>	_
0:							-		
Signed/reviewe	r:				Date:				

			GROUNDWA	TER SAMPLE	DATA SHE	FT				
Project Number:	44675		CHOCHEN	Sample Location	_		MW-3			
Project Name:	401 Drivewa	v Street		Sample ID (ie.			/W-3-W-0609	12	-	
Client:	BBL	y Caroot		Date Sample C		inida).	9/12/2006	<u> </u>	-	
Sampler:	Julie Ahern				olicotcu.		1830		_	
Sampler.	Julie Ariem			Time sampled:			1030		•	
				lell Information	1					
Groundwater:	Χ		Casing Diameter (in):	2"		a) Well Depth	(ft):	19.63		
			•			b) Water Deptl	n (ft):	13.78		
Other:			_			c) Water Colur	nn (ft):	5.85		
						d) Calc. Purge	Vol. (gal):	0.9		
			Calcul	ating Purge Vo	lume					
Well Casing Diameter 2	Multiply c) by: 0.16					Sand Pack Diameter 8	Multiply c) by: 0.71	4		
4	0.65 1.47					10 1 12 1.28				
						Note: assuming sand	pack has 29% porosi			
Example 1- purging only 2-inch casing and 6-foot w	ater column					Example 2- purging v 2-inch casing, 8-inch s	and pack, and 6-foot	water column		
One Purge Volume= 0.16	X 6 = 0.96 gallons was	ter				One Purge Volume= (0.16 X 6) + (0.71 X 6)) = 5.22 gallons water		
			FIELD	MEASUREME	NTS					
	Volume		Conductivity	Temperature						
Time	(gallons)	рН	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other	
1815	1	6.99	0.785	6.2	light gray	42	Not	Not		
1820 1823	3	6.99 7.00	0.797 0.791	5.5 5.3	light gray	113 156	Measured	Measured	heavy sheer	
1023	3	7.00	0.791	3.3	light gray	130			strong odor	
Total Values a Due	and (Callana).		2		Fran Dradiu	at (/a).	Na	•		
Total Volume Pur Odor:	ged (Gallons): Petroleum H		3 Like Odor	-	Free Produc Sheen (y/n)	,	No Yes	_		
Purge Method (d i				e pump, etc.)	Sneen (y/n)		162			
, ,	·	•		, ,						
Sample Method (dienosablo ba	ailor toflon h	nailar submarsi	blo numn oto)						
Sample Method (uisposable ba	aner, tenon t	Daller, Submersi	bie purip, etc.)						
Well Integrity (cor Good	ndition of casin	ıg, flush mou	ınt sealing prop	erly, cement sea	al intact, etc.)					
G000										
Remarks (well red	covery, unusua	al conditions	observations):							
Good recovery										
					T		000/000			
Duplicate Samp Split Sample ID		None Colle			Analyses F	Requested:		RRO by AK10 BE by 8021B	1/102/103	
Split Sample ID	•	None Colle	cieu					als by 6010/74	70	
							VOCs by 82		70	
								270; EDB by 80	011	
Oi aura a d	L. I. A.				•	D-4	-	-		
Signed: Julie Ahern					_	Date:	10/30/2006	j	-	
Signed/reviewe	igned/reviewer:					Date:				

			GROUNDWA	TER SAMPLE	E DATA SHI	EET			
Project Number:	44675			Sample Location			MW-4		
Project Name:	401 Drivewa	v Street		Sample ID (ie.			лw-4-W-0609	12	-
Client:	BBL	y 0 001		Date Sample C		inida).	9/12/2006		•
									=
Sampler:	Julie Ahern			Time sampled:			1745		_
				lell Information	1				
Groundwater:	Χ		Casing Diameter (in):	2"		a) Well Depth	(ft):	20.74	
			_ ` ` ′			b) Water Dept		13.63	
Other:			_			c) Water Colur	nn (ft):	7.11	
						d) Calc. Purge	Vol. (gal):	10.5	
			Calcul	ating Purge Vo	olume				
Well Casing Diameter 2	Multiply c) by: 0.16					Sand Pack Diameter 8	Multiply c) by: 0.71	4	
4 6	0.65 1.47					10 12	1	‡	
6	timple 1- purging only well casing volume					Note: assuming sand			
Example 1- purging only 2-inch casing and 6-foot was 2-inch casing and 6-foot 2-inch casing and 6		1				Example 2- purging 2-inch casing, 8-inch	•	•	
One Purge Volume= 0.16	X 6 = 0.96 gallons wa	ater				One Purge Volume=	(0.16 X 6) + (0.71 X 6	6) = 5.22 gallons water	
			FIELD) MEASUREME	NTS				
	Volume		Conductivity	Temperature	T				
Time	(gallons)	pН	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1730	1.2	7.01	0.789	5.8	light gray	91	Not	Not	mod sheen
1734	2.4	7.06	0.800	5.1	light gray	165	Measured	Measured	very strong
1737	3.4	7.08	0.800	4.9	light gray	261			odor
Total Volume Pur	• , ,		3.4	•	Free Produ	. ,	No	_	
Odor: Purge Method (d	Petroleum H	,		e numn etc)	Sheen (y/n)	:	Yes		
ango mounou (u	iopoodbio baii	. , tonon be	anor, odbinoroib	o pamp, oto.)					
Sample Method (disposable ba	ailer, tetion	bailer, submersi	ble pump, etc.)					
Well Integrity (cor	ndition of casin	g, flush mou	unt sealing prop	erly, cement sea	al intact, etc.)				
Good									
Remarks (well re-	covery, unusua	al conditions	/observations):						
Good recovery	•								
Duplicate Samp		None Colle			Analyses I	Requested:		RRO by AK10	1/102/103
Split Sample ID): -	None Coll	ectea		-			BE by 8021B als by 6010/74	70
							VOCs by 82		70
								270; EDB by 8	011
0:1	1 1				-	D. L.	•		
Signed:	Julie Ahern				_	Date:	10/30/2006)	=
Signed/reviewe	gned/reviewer:					Date:			

			GROUNDWA	TER SAMPL	E DATA SH	EET			
Project Number:	44675			Sample Locati	on (ie. MW-1)):	MW-5		_
Project Name:	401 Drivewa	y Street		Sample ID (ie.	MW-1-W-yyr	mmdd):	И <u>W-5-W-0609</u>	12	_
Client:	BBL			Date Sample (Collected:		9/12/2006		_
Sampler:	Julie Ahern			Time sampled	:		1615		=
·			W	/ell Informatio	n				-
			Casing		•				
Groundwater:	X		Diameter (in):	2"		_a) Well Depth		20.65	
0.1						b) Water Dept	. ,	12.7	
Other:			_			c) Water Colurd) Calc. Purge	, ,	7.95 1.3	
						u) Galo. 1 digo	voi. (gai).	1.0	
			Calcul	ating Purge V	olume				
Well Casing Diameter	Multiply c) by:			<u> </u>		Sand Pack Diameter	Multiply c) by:		
2 4	0.16 0.65					8 10	0.71	+	
6	6 1.47 xample 1- purging only well casing volume					12 Note: assuming sand	1.28	ity	
						Example 2- purging	well casing and san	d pack volume	
2-inch casing and 6-foot w One Purge Volume= 0.16		ater				2-inch casing, 8-inch s One Purge Volume= (
			FIFT F	MEACUDEM	ENTO				
	Volume	Ī	Conductivity	Temperature		T	T	T	Ī
Time	(gallons)	рН	(mS)	· (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1600	1.25	6.96	1.03	6.5	clear	58	Not	Not	strong odor
1604	2.5	6.98	1.03	5.5	clear	45	Measured	Measured	light sheen
1609	3.75	7.01	1.03	5.6	clear	37			
								+	
Total Volume Pur	and (Callons):		3.75		Free Produ	ict (v/n):	No	<u> </u>	
Odor:	Petroleum H		-		Sheen (y/n	,	Yes	_	
Purge Method (d				e pump, etc.)	Officer (y/ri	1).	163		
Sample Method (disposable ba	ailer, teflon	bailer, submersi	ble pump. etc.)					
(,	,	,					
Well Integrity (cor	ndition of casin	na flush mo	unt sealing prope	erly cement se	al intact_etc.))			
Good	idition of oddi	ig, naon mo	unit ocaling propi	ony, comon so	ai iiitaot, oto.,	,			
Damanda (wall as		-1	/-l						
Remarks (well red Good recovery	covery, unusua	ai conditions	s/observations):						
,									
Duplicate Samp			-060912 @ 16	30	Analyses	Requested:	GRO/BTEX	using AK101/	8021B
Split Sample ID	:	None Coll	ected				DRO/RRO	using AK102/1	03
Signed:	Julie Ahern	1			_	Date:	10/30/2006	3	_
Signed/reviewe	aned/reviewer:				Date:				

			GROUNDWA	ATER SAMPLE	DATA SHE	ET			
Project Number:	44675			Sample Location	(ie. MW-1):		MW-7		
Project Name:	401 Drivewa	y Street		Sample ID (ie. M	W-1-W-yymi	mdd):	лw-7-w-0609	11	-
Client:	BBL			Date Sample Co		,	9/11/2006		
Sampler:	Julie Ahern			Time sampled:			1815		
			V	·					
			Casing	Vell Information					
Groundwater:	Χ		_Diameter (in):	2"		a) Well Depth	. ,	22.26	
						b) Water Depth		14.74	
Other:			_			c) Water Colur		7.52	
						d) Calc. Purge	Vol. (gal):	1.2	
			Calcu	lating Purge Vol	umo				
Well Casing Diameter	Multiply c) by:		Calcu	lating Furge voi	uiiie	Sand Pack Diameter	Multiply c) by:		
2	0.16 0.65					8 10	0.71 1	1	
6	1.47					12	1.28	<u>†</u>	
Example 1- purging only	well casing volume					Note: assuming sand Example 2- purging v		•	
Example 1- purging only 2-inch casing and 6-foot w One Purge Volume= 0.16	ater column X 6 = 0.96 gallons wa	ter				2-inch casing, 8-inch s One Purge Volume= (
			FIEL	D ME A QUIDEMEN	ITO				
	Volume		Conductivity	D MEASUREMEN I	1	T		I	l
Time	(gallons)	рН	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1755	1.25	7.30	0.688	6.5	gray/olive	999	Not	Not	mod odor
1800	2.5	7.31	0.683	6.1	gray/olive	999	Measured	Measured	no sheen
1804	3.7	7.32	0.675	6.0	gray/olive	999			silty
Total Volume Pur			3.75	-	Free Produ	. ,	No	_	
Odor: Purge Method (d i	Petroleum H			lo numo etc.)	Sheen (y/n)	:	No		
ruige Metrioa (a i	isposable ball	iei, tenon ba	aller, Submersibl	le pump, etc.)					
Sample Method (disposable ba	ailer, teflon	bailer, submersi	ble pump, etc.)					
Well Integrity (cor	ndition of casin	ıg, flush moı	unt sealing prop	erly, cement seal	intact, etc.)				
Good									
Remarks (well red	coverv. unusua	al conditions	/observations):						
Good recovery	, ,		,						
		None Colle			Analyses F	Requested:		using AK101/	
Split Sample ID	:	None Colle	ected		4		DKO/RRO	using AK102/1	03
Signed:	Julie Ahern				_	Date:	10/30/2006		-
Signed/reviewe	r·					Date:			

			GROUNDWA	TER SAMPLE	DATA SHE	ET			
Project Number:	44675			Sample Location	(ie. MW-1):		MW-8		
Project Name:	401 Drivewa	v Street		Sample ID (ie. M	,	mdd): N	1W-8-W-0609	11	-
Client:	BBL	,		Date Sample Collected:			9/11/2006		
Sampler:	Julie Ahern			Time sampled:			1645		
Gampier.	Julie Ariem			·			1043		
			Casing	Vell Information					
Groundwater:	Χ		Diameter (in):	2"		a) Well Depth	(ft):	21.78	
			_			b) Water Depth	n (ft):	13.12	
Other:			_			c) Water Colum	nn (ft):	8.66	
						d) Calc. Purge	Vol. (gal):	1.4	
	I		Calcu	lating Purge Vol	ume		I.	I	
Well Casing Diameter 2	Multiply c) by: 0.16					Sand Pack Diameter 8	Multiply c) by: 0.71	_	
4 6	0.65 1.47					10 12	1 1.28		
F	•					Note: assuming sand	pack has 29% poros		
Example 1- purging only 2-inch casing and 6-foot was a second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or second or	vater column					Example 2- purging 2-inch casing, 8-inch s	sand pack, and 6-foot	t water column	
One Purge Volume= 0.16	X 6 = 0.96 gallons wa	ater				One Purge Volume= (0.16 X 6) + (0.71 X 6	i) = 5.22 gallons water	
FIELD MEASUREMENTS									
	Volume		Conductivity	T (F)					
Time	(gallons)	pH 7.40	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1634	1.5	7.18	0.604	5.2 4.5	gray/beige	528	Not	Not	mod odor
1639 1642	2.75 4.25	7.07 7.12	0.610 0.594	4.5	gray/beige gray/beige	495 439	Measured	Measured	no sheen silty
1042	4.23	1.12	0.594	4.3	gray/beige	439			Silty
Total Valuma Dur	rand (Callana)		4.05		Eroo Drodu	ot () (/o)	No	•	
Total Volume Pur Odor:	rged (Gallons): Petroleum H		4.25 Like Oder		Free Production Sheen (y/n)		No No	_	
Purge Method (d i				e pump, etc.)	Officerr (y/rr)	•	110		
· ·	•	•		, , ,					
Sample Method (dianasahla ha	ilar toflon l	nailar aubmarai	blo numn oto)					
Sample Method (uisposable ba	iller, telloli i	baller, Submersi	bie purip, etc.)					
Well Integrity (cor	ndition of casin	g, flush mou	ınt sealing prop	erly, cement seal	intact, etc.)				
Good									
Remarks (well red	covery, unusua	al conditions	observations):						
Good recovery									
		N 0 "			I		000/255		20045
None Collected Split Sample ID: Analyses Requested: ORO/BTEX using AK101/8021E DRO/RRO using AK102/103									
Split Sample ID	··	INOTIE COILE	-CIEU		1		טאט/אאט ו	using AN 102/1	US
					<u>I</u>				
Signed:	Julie Ahern				<u>-</u>	Date:	10/30/2006		<u>-</u>
Signed/reviewe	r:					Date:			

			GROUNDWA	ATER SAMPLE	DATA SHI	EET			
Project Number:	44675			Sample Location	(ie. MW-1):		MW-9		
Project Name:	401 Drivewa	ay Street		Sample ID (ie. M	W-1-W-yym	ımdd): N	лW-9-W-0609 ⁻	11	_
, Client:	BBL	,		Date Sample Col		,	9/11/2006		
Sampler:	Julie Ahern			Time sampled:			1730		=
Cap.c			1						-
			Casing	Vell Information					
Groundwater:	Χ		_Diameter (in):	2"		21.69			
						b) Water Depth		12.9	
Other:			_			c) Water Colur	` '	8.79	
						d) Calc. Purge	Vol. (gal):	1.4	
			Calou	lating Burgo Vol	uma				
Well Casing Diameter	Multiply c) by:		Calcu	lating Purge Vol	ume	Sand Pack Diameter	Multiply c) by:		
2	0.16					8	0.71	‡	
4 6	0.65 1.47					10 12	1.28	-	
5		_				Note: assuming sand		-	
Example 1- purging only 2-inch casing and 6-foot was	ater column					Example 2- purging v 2-inch casing, 8-inch s	and pack, and 6-foot	water column	
One Purge Volume= 0.16	X 6 = 0.96 gallons wa	ater				One Purge Volume= (0.16 X 6) + (0.71 X 6)	= 5.22 gallons water	
			FIEL	D MEASUREMEN	NTS				
	Volume		Conductivity						
Time	(gallons)	рН	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
							Not	Not	no sheen
							Measured	Measured	tiny white
	_								worms
	+								mod odor
									silty
Total Volume Pur	rged (Gallons)	:	-	<u>-</u>	Free Produ	ıct (y/n):	No	=	
Odor:	Petroleum F				Sheen (y/n):	No		
Purge Method (d	isposable bai	ler, teflon ba	ailer, submersib	le pump, etc.)					
Sample Method (disposable b	ailer, teflon	bailer, submersi	ble pump, etc.)					
Well Integrity (co	ndition of casir	ng, flush moi	unt sealing prop	erly, cement seal	intact, etc.)				
Good									
Remarks (well re	coverv. unusu	al conditions	/observations):						
Good recovery	• •		,						
		None Colle	antad		Analyssa	Requested:	CDO/DTEV	using AK101/	0021D
Split Sample ID		None Colle			Allalyses	rveduesieu.		using AK101/ using AK102/1	
Cpiii Campio ID	·	. 10110 00110					21.0,11.0	g / 11 10 2/ 1	
Signed:	Julie Aherr)				Date:	10/30/2006		
		-			•		. 5, 5 5, 2 5 6		-
Signed/reviewe	r:					Date:			

			GROUNDWA	TER SAMPLE	DATA SHE	FT			
Project Number:	44675		OKOONDWA	Sample Location	_	· - 1	MW-10		
Project Name:		v Stroot		Sample ID (ie. M	,	mdd). M	IW-10-W-0609	111	-
	401 Drivewa	iy Sireei		-		maa). IV			
Client:	BBL			_ Date Sample Collected:			9/11/2006		
Sampler:	Julie Ahern			Time sampled:			1600		-
				Vell Information					
Groundwater:	X		Casing Diameter (in):	2"		a) Well Depth	(f+)·	19.83	
Oroundwater.			_Diameter (iii).		a) Well Depth (ft): b) Water Depth (ft):			13.66	
Other:						c) Water Colum		6.17	
			-			d) Calc. Purge		1.0	
			Calcu	lating Purge Vol	ume				
Well Casing Diameter	Multiply c) by:					Sand Pack Diameter	Multiply c) by:		
2 4	0.16 0.65					8 10	0.71 1	<u> </u>	
6	1.47					12 Note: assuming sand	1.28 pack has 29% porosi	<u> </u>	
Example 1- purging only 2-inch casing and 6-foot w One Purge Volume= 0.16	well casing volume					Example 2- purging v 2-inch casing, 8-inch s			
One Purge Volume= 0.16	X 6 = 0.96 gallons wa	iter				One Purge Volume= (
			FIEL	D MEASUREMEN	NTS				
	Volume		Conductivity						
Time	(gallons)	рН	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1550	1	6.97	0.696	5.9	beige/gray	728	Not	Not	no sheen
1553	2	7.03	0.670	5.0	beige/gray	401	Measured	Measured	faint odor
1555	3	7.08	0.667	4.5	beige/gray	312			silty
T : 1) / 1	1.(0.11)			l					1
Total Volume Pur			J. ika Odar	•	Free Produc	,	No	-	
Odor: Purge Method (d i	Petroleum H			e pump. etc.)	Sheen (y/n)	<u> </u>	No		
(3.				, , , , , , , , , , , ,					
Cample Mathed (dianasahla b	ailer toflon	hailar auhmarai	ble numn eta \					
Sample Method (disposable b	aner, tenon	baller, submersi	bie pump, etc.)					
Well Integrity (cor	ndition of casir	ng, flush mou	unt sealing prop	erly, cement seal	intact, etc.)				
Good									
Remarks (well red	covery, unusua	al conditions	/observations):						
Good recovery									
					T				
Duplicate Samp Split Sample ID		None Colle	D-060911 @ 1	630	Analyses F	Requested:		using AK101/a using AK102/1	
opiit oampie ID		INDITE COLL	501 6 0		†		טאט/אאט ו	using AN 102/1	US .
					1	_			
Signed:	Julie Ahern]			-	Date:	10/30/2006	<u> </u>	-
Signed/reviewe	r:					Date:			

			GROUNDWA	TER SAMPLE	DATA SH	EET			
Project Number:				Sample Location			GEI-1		
Project Name:	328.5 Illinois	Ave. Fairba	anks. AK	· · · Sample ID (ie. I			GEI-1-W-0609	17	-
Client:	BBL	7.170, 1 000		Date Sample Collected:			9/17/2006	-	
	-			-				=	
Sampler:	Julie Ahern			Time sampled:			1230		-
				lell Information					
Groundwater:	Χ		Casing Diameter (in):	2"		a) Well Depth	(ft)·	18.54/18.49	
Orounawator.	**					b) Water Deptil		14.98/14.93	
Other:	Note: TOC i	s sloped ar	nd w/out measu	ıring point;		c) Water Colur		3.56	
	max a	ınd min dep	ths were meas	sured		d) Calc. Purge	Vol. (gal):	0.6	
			Coloui	leting Durge Ve	Jum e				
Well Casing Diameter	Multiply c) by:		Calcul	ating Purge Vo	nume	Sand Pack Diameter	Multiply c) by:	T	
2 4	0.16 0.65					8 10	0.71	‡	
6	1.47					12	1.28	<u> </u>	
Example 1- purging only	y well casing volume	9				Note: assuming sand Example 2- purging			
2-inch casing and 6-foot v One Purge Volume= 0.16		ater				2-inch casing, 8-inch One Purge Volume=		t water column 6) = 5.22 gallons water	
							(-, -: g	
				MEASUREME	NTS				
Time	Volume (gallons)	ьЦ	Conductivity (mS)	Temperature (F)	Color	Turbiditu	Dodov	Dissalved O	Othor
Time 1214	0.7	pH	` ′	(F)	Color	Turbidity	Redox Not	Dissolved O ₂	Other
1214	1.4	6.93 6.95	0.649 0.648	4.8 4.5	dark gray dark gray	829 999	Measured	Not Measured	heavy sheen
1219	2	6.95	0.641	4.4	gray	999	Measureu	Measureu	very strong odor
1221		0.55	0.041	7.7	gray	333			silty
									oty
T									
Total Volume Pur	,		2	-	Free Produ	,	No	_	
Odor: Purge Method (d i	Petroleum H	,		le numn etc)	Sheen (y/n)):	Yes		
r argo mouroa (a	iopodabie bai	ici , tonon bi	anor, odbinioroibi	o pamp, cto.)					
Sample Method (disposable ba	ailer, teflon	bailer, submersi	ble pump, etc.)					
Well Integrity (cor	ndition of casin	ng, flush mo	unt sealing prop	erly, cement sea	al intact, etc.)				
Placed lock on we	ell cap								
Remarks (well red	COVORY LIBURIE	al conditions	/observations):						
Good recovery	covery, unusua	ai conditions	observations).						
,									
Duplicate Samp	ole ID:	None Coll	ected		Analyses	Requested:	GRO/DRO	by AK 101/102	2
Split Sample ID		None Coll]	•	BTEX by 80		
			•						
Signed:	Julie Ahern	1				Date:	10/30/2006	6	
					_		1 2 2 3 7 2 3 0 0		•
Signed/reviewe	er:					Date:			

			GROUNDWA	TER SAMPLE	DATA SH	IEET			
Project Number:				Sample Locatio	on (ie. MW-1):	GEI-2		_
Project Name:	328.5 Illinois	Ave, Fairba	anks, AK	Sample ID (ie. I	MW-1-W-yyı	mmdd):	GEI-2-W-0609	17	_
Client:	BBL			Date Sample C	ollected:		9/17/2006		_
Sampler:	Julie Ahern			Time sampled: 1415					_
			V	Vell Information					
_			Casing						
Groundwater:	X		Diameter (in):	2"		a) Well Depth		19.96	
Other:						b) Water Deptc) Water Colur		15.92 4.04	
Other.						d) Calc. Purge		0.6	
			Calcul	lating Purge Vo	lume				
Well Casing Diameter	Multiply c) by:					Sand Pack Diameter	Multiply c) by:		
2 4	0.16 0.65					10	0.71	₫	
6	1.47					12 Note: assuming sand	1.28 I pack has 29% poros	sity	
Example 1- purging only 2-inch casing and 6-foot v						Example 2- purging 2-inch casing, 8-inch	-	· ·	
One Purge Volume= 0.16	6 X 6 = 0.96 gallons wa	ater				One Purge Volume=	(0.16 X 6) + (0.71 X 6	6) = 5.22 gallons water	
			FIELD	O MEASUREME	NTS				
	Volume		Conductivity	Temperature				D	0.1
Time	(gallons)	pH 6.70	(mS)	(F)	Color	Turbidity	Redox Not	Dissolved O ₂	Other
1403 1405	0.75 1.4	6.79 6.81	0.885 0.871	5.7 5.1	gray gray	386 576	Measured	Not Measured	heavy sheer
1409	2	6.83	0.858	4.9	gray	999	caca.ca	caca.ca	odor
Total Volume Pu	rged (Gallons):		2		Free Produ	uct (y/n):	No		
Odor:	Petroleum H	ydrocarbon	-Like Odor	•	Sheen (y/r	າ):	Yes	_	
Purge Method (d	isposable bail	er, teflon b	ailer, submersibl	le pump, etc.)					
Sample Method (disposable ba	ailer, teflon	bailer, submersi	ble pump, etc.)					
Well Integrity (co	ndition of casin	g, flush mo	unt sealing prop	erly, cement sea	al intact, etc.)			
Placed lock on w	ell cap								
Remarks (well re	coverv. unusua	al conditions	/observations):						
Good recovery	,,		· · · · · · · · · · · · · · · · · · ·						
Duplicate Samp		None Coll			Analyses	Requested:		RRO by AK10	1/102/103
Split Sample ID): -	None Coll	ected		4			BE by 8021B als by 6010/74	70
							VOCs by 82		
								270; EDB by 8	011
Signed:	Julie Ahern					Date:	10/30/2006		
oigilea.	Julie Allelli				_	Date.	10/30/2000	,	-
Signed/reviewe	er:					Date:			

			GROUNDWA	TER SAMPLE	DATA SH	EET			
Project Number:				Sample Locatio	n (ie. MW-1)	:	GEI-3		_
Project Name:	328.5 Illinois	Ave, Fairba	anks, AK	Sample ID (ie. I	ИW-1-W-yyn	nmdd): (GEI-3-W-0609	16	_
Client:	BBL			Date Sample Co	ollected:		9/16/2006		=
Sampler:	Julie Ahern			Time sampled:			1400		
			١٨	/ell Information	_				
			Casing	ren imormation					
Groundwater:	Χ		_Diameter (in):	2"		_a) Well Depth		19.78	
						b) Water Depth	` '	15.35	
Other:			_			c) Water Colurd) Calc. Purge	` ,	0.7	
						u) Calc. Pulge	voi. (gai).	0.7	
			Calcul	ating Purge Vo	lume				
Well Casing Diameter	Multiply c) by:		Garoa	amig rango ro	141110	Sand Pack Diameter	Multiply c) by:		
2 4	0.16 0.65					8 10	0.71	7	
6	1.47					12 Note: assuming sand	1.28	ity sity	
Example 1- purging only 2-inch casing and 6-foot v		е				Example 2- purging 2-inch casing, 8-inch	well casing and sar	nd pack volume	
One Purge Volume= 0.16		ater						6) = 5.22 gallons water	
			FIFI () MEASUREME	NTS				
	Volume		Conductivity	Temperature	<u> </u>			1	
Time	(gallons)	рН	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1347	0.7	6.66	0.714	6.2	light gray	389	Not	Not	heavy sheer
1350	1.4	6.62	0.712	5.6	light gray	905	Measured	Measured	very strong
1353	2.25	6.62	0.722	5.5	light gray	999			odor
Total Volume Pur			2.25	•	Free Produ		No	_	
Odor: Purge Method (d	Petroleum H isposable bai			e pump, etc.)	Sheen (y/n)):	Yes		
. a.gooo (a.		,		o pap, etc.,					
Commis Mathead /	diamanahla ba	ailan taflan	h a : a b	hla muman ata \					
Sample Method (disposable ba	aller, tellon	baller, submersi	bie pump, etc.)					
Well Integrity (cor		ng, flush mo	unt sealing prop	erly, cement sea	I intact, etc.)				
Placed lock on w	ен сар								
Remarks (well re	covery, unusua	al conditions	/observations):						
Good recovery									
Duplicate Samp	ola ID:	None Coll	acted		Analyses	Requested:	GRO/DRO	by AK 101/102	2
Split Sample ID		None Coll			Analyses	requested.	BTEX by 80		
	•				<u> </u>				
Signed:	Julie Ahern	1				Date:	10/30/2006		
					_		10/00/2000	<u>, </u>	-
Signed/reviewe	r:					Date:			

			GROUNDWA	TER SAMPLE	DATA SH	EET				
Project Number:				Sample Locatio	n (ie. MW-1)):	GEI-4		_	
Project Name:	328.5 Illinois	Ave, Fairba	anks, AK	Sample ID (ie. N	ЛW-1-W-yyr	nmdd): C	EI-4-W-0609	16	=	
Client:	BBL			Date Sample Co	ollected:		9/16/2006		_	
Sampler:	Julie Ahern			Time sampled:		_				
			W	/ell Information		_				
			Casing	ren imormation						
Groundwater:	Χ		_Diameter (in):	2"		_a) Well Depth (20.0/20.03		
						b) Water Depth	` ,	15.58/15.61		
Other:			nd w/out measu			c) Water Colum	` '	4.42		
	max a	ind min dep	oths were meas	ured		d) Calc. Purge	Vol. (gal):	0.7		
			Calaul	oting Durgo Vo	luma					
Well Casing Diameter	Multiply c) by:		Calcul	ating Purge Vo	lume	Sand Pack Diameter	Multiply c) by:			
2	0.16					8	0.71	‡		
6	0.65 1.47					10 12	1 1.28	1		
Example 1- purging only	well easing volume					Note: assuming sand Example 2- purging				
2-inch casing and 6-foot w	vater column					2-inch casing, 8-inch s	and pack, and 6-foo	t water column		
One Purge Volume= 0.16	Volume = 0.16 X 6 = 0.96 gallons water One Purge Volume = (0.16 X 6) + (0.71 X 6) = 5.22 gallons water									
FIELD MEASUREMENTS										
	Volume		Conductivity	Temperature						
Time	(gallons)	рН	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other	
1505	0.75	7.05	0.813	6.1	gray	311	Not	Not	mod sheen	
1509	1.5	6.96	0.806	5.6	gray	845	Measured	Measured		
1511	2.2	6.96	0.805	5.6	gray	999			strong odor	
Total Volume Pur			2.2		Free Produ	,	No	_		
Odor:	Petroleum H			t- \	Sheen (y/n):	Yes			
Purge Method (di	isposable ball	ier, tellon ba	aller, submersibl	e pump, etc.)						
Sample Method (disposable ba	ailer, teflon	bailer, submersi	ble pump, etc.)						
Well Integrity (cor	ndition of casin	a. flush mou	unt sealing prop	erlv. cement sea	l intact, etc.))				
Placed lock on we		3,	31 1	,,	,					
Danasalas (contlant			/-l							
Remarks (well red Good recovery	covery, unusua	ai conditions	observations):							
Cood recovery										
Duplicate Samp	ole ID:	None Colle	ected		Analyses	Requested:	GRO/DRO	by AK 101/102	2	
Split Sample ID										
	•									
Signed:	Julie Ahern					Date:	10/30/2006	6		
					-				_	
Signed/reviewe	r:					Date:				

			GROUNDWA	TER SAMPLE	E DATA SH	IEET					
Project Number:				Sample Location	on (ie. MW-1):	GEI-5		_		
Project Name:	328.5 Illinois	s Ave, Fairba	anks, AK	Sample ID (ie.	MW-1-W-yy	mmdd):	G <u>EI-5-W-0609</u>	16	_		
Client:	BBL			Date Sample C	Collected:		9/16/2006		_		
Sampler:	Julie Ahern			Time sampled:			_				
,			14	•	·						
			Casing	lell Information							
Groundwater:	X		_Diameter (in):	2"		a) Well Depth	(ft):	16.19			
			_			b) Water Dept	h (ft):	12.98			
Other:			_			c) Water Colur	nn (ft):	3.21			
						d) Calc. Purge	Vol. (gal):	0.5			
	_	•	Calcul	ating Purge Vo	lume						
Well Casing Diameter 2	Multiply c) by: 0.16					Sand Pack Diameter 8	Multiply c) by: 0.71	4			
4	0.65					10	1	1			
6	6 1.47					12 Note: assuming sand	1.28 I pack has 29% poros	sity			
Example 1- purging only 2-inch casing and 6-foot was the control of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case		e				Example 2- purging 2-inch casing, 8-inch					
One Purge Volume= 0.16		vater						6) = 5.22 gallons water			
			EIEI D	MEASUREME	этс						
	Volume	1	Conductivity	Temperature	.N13	T		T	I		
Time	(gallons)	рН	(mS)	· (F)	Color	Turbidity	Redox	Dissolved O ₂	Other		
1259	0.6	6.56	0.650	7.6	dark gray	523	Not	Not	heavy sheen		
1301	1	6.55	0.663	7.0	dark gray	424	Measured	Measured	very strong		
1303	1.6	6.61	0.660	6.8	dark gray	265			odor		
Total Volume Pur	rged (Gallons)	:	1.6	_	Free Produ	ct (y/n):	No	_			
Odor:	Petroleum F				Sheen (y/n)):	Yes				
Purge Method (d	isposable ba	i ler , teflon ba	ailer, submersib	le pump, etc.)							
Sample Method (disposable b	ailer, teflon	bailer, submersi	ible pump, etc.)							
Well Integrity (cor	ndition of casi	na flush moi	unt sealing prop	erly cement se	al intact etc)					
Placed lock on w		ng, nasir mo	ant scaling prop	erry, coment se	ai iiitaot, oto.	.,					
Remarks (well re	covery, unusu	al conditions	/observations):								
Good recovery											
Duplicate Samp	ole ID:	None Coll	ected		Analyses	Requested:	GRO/DRO	by AK 101/102	<u> </u>		
Split Sample ID		None Coll			7 thatyses	requesteu.	BTEX by 80		=		
Ci sus a di	Iulia Al-	_				Data	40/00/000	<u> </u>			
Signed:	Julie Aherr	ı			-	Date:	10/30/2006)	-		
Signed/reviewe	r:					Date:					

			GROUNDWA	TER SAMPLE	DATA SH	EET			
Project Number:				Sample Locatio	n (ie. MW-1)	:	GEI-6		_
Project Name:	328.5 Illinois	Ave, Fairba	nks, AK	Sample ID (ie. I	ИW-1-W-yyn	nmdd): (SEI-6-W-0609	16	
Client:	BBL			Date Sample Collected:			9/16/2006	•	
Sampler:	Julie Ahern			Time sampled:			1230		
			W	/ell Information					
			Casing	ren imormation					
Groundwater:	Χ		Diameter (in):	2"		a) Well Depth		17.24	
						b) Water Depth	` ,	12.82	
Other:			_			c) Water Colur	. ,	4.42	
						d) Calc. Purge	voi. (gai):	0.7	
			Calcul	ating Purge Vo	lume				
Well Casing Diameter	Multiply c) by:		Valcui	ading I dige vo	iuiiic	Sand Pack Diameter	Multiply c) by:		
2 4	0.16 0.65					8 10	0.71	-	
6	1.47					12 Note: assuming sand	1.28	1	
Example 1- purging only		9				Example 2- purging	well casing and sar	nd pack volume	
2-inch casing and 6-foot v One Purge Volume= 0.16		ater				2-inch casing, 8-inch : One Purge Volume= (of water column 6) = 5.22 gallons water	
			EIEI I) MEASUREME	NTC				
	Volume		Conductivity	Temperature	N13	T	I	T	l
Time	(gallons)	рН	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1222	0.75	6.37	0.632	7.1	gray	285	Not	Not	no sheen
1225	1.5	6.44	0.626	6.5	gray	288	Measured	Measured	no odor
1227	2.2	6.52	0.632	6.4	gray	260			silty
						<u> </u>	<u> </u>		
Total Volume Pur	rged (Gallons):		2.2		Free Produ	ıct (y/n):	No	_	
Odor:	None detect				Sheen (y/n):	No		
Purge Method (d	isposable bai	ler, teflon ba	ailer, submersibl	e pump, etc.)					
Sample Method (disposable ba	ailer, teflon	bailer, submersi	ble pump, etc.)					
Well Integrity (cor	ndition of casir	ng, flush mo	unt sealing prop	erly, cement sea	ıl intact, etc.)	1			
Placed lock on w									
Remarks (well re	COVERY LIBUSII	al conditions	/ohservations):						
Good recovery	covery, arrasac	ai conditions	obscivations).						
Duplicate Samp		None Coll			Analyses	Requested:		by AK 101/102	2
Split Sample ID):	None Coll	ected		4		BTEX by 80)21B	
Signed:	Julie Ahern	l			_	Date:	10/30/2006	3	
Signed/reviewe	er:					Date:			

			GROUNDWA	TER SAMPLE	DATA SH	EET			
Project Number:				Sample Location	n (ie. MW-1)	:	GEI-7		_
Project Name:	328.5 Illinois	Ave, Fairba	anks, AK	Sample ID (ie. N	ЛW-1-W-yyn	nmdd):	GEI-7-W-0609	17	_
Client:	BBL			Date Sample Co		,	9/17/2006		_
Sampler:	Julie Ahern			Time sampled:			1150		_
Саттріст.	duile 7 therri						1100		
			Casing	Vell Information					
Groundwater:	Χ		_Diameter (in):	2"		a) Well Depth	(ft):	19.09	
						b) Water Dept		15.27	
Other:			_			c) Water Colu		3.82	
						d) Calc. Purge	· Vol. (gal):	0.6	
			0.1	1.0 B V					
Well Casing Diameter	Multiply c) by:		Calcu	lating Purge Vol	iume	Sand Pack Diameter	Multiply c) by:	I	
2 4	0.16 0.65					8	0.71	‡	
6	1.47					12	1.28	<u> </u>	
Example 1- purging only	y well casing volume	3				Note: assuming sand Example 2- purging			
2-inch casing and 6-foot v One Purge Volume= 0.16	water column					2-inch casing, 8-inch		ot water column 6) = 5.22 gallons water	
one range volume= 0.10	7 X 0 = 0.00 galloris W	utci				One i arge volume=	(0.10 % 0) 1 (0.71 %	5) = 0.22 gallons water	
				MEASUREME!	NTS				
Time	Volume (gallons)	рН	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1139	0.7	6.65	0.807	6.3	dark gray	878	Not	Not	mod sheen
1142	1.4	6.86	0.828	5.8	dark gray	999	Measured	Measured	mod driddir
1144	1.8	6.90	0.836	5.6	dark gray	999			strong odor
									silty
Total Volume Pur	rged (Gallons):				Free Produ	ıct (y/n):	No		
Odor:	Petroleum H		-Like Odor	-	Sheen (y/n	. ,	Yes	_	
Purge Method (d	isposable bai	ler, teflon b	ailer, submersib	le pump, etc.)	·				
Sample Method (disposable ba	ailer, teflon	bailer, submers	ible pump, etc.)					
·	· •		·	, , ,					
Well Integrity (cor	ndition of casin	na flush mo	unt sealing prop	erly cement sea	Lintact etc.)	<u> </u>			
Placed lock on w		ig, iidoii iiio	ant scaming prop	ony, comon sou	i intaot, oto.)				
		1 1141							
Remarks (well re- Good recovery	covery, unusua	al conditions	s/observations):						
Good recovery									
Duplicate Samp	ole ID:	None Coll	ected		Analyses	Requested:	GRO/DRO	by AK 101/102	2
Split Sample ID		None Coll				2-J2-2-3-0-0-	BTEX by 80		
	'		-						
Signed:	Julie Ahern					Date:	10/30/2006		
C.g. lou.	ned: Julie Ahern					24.0.	10/00/2000	•	-
Signed/reviewe	ned/reviewer:					Date:			

			GROUNDWA	TER SAMPLE	DATA SH	IEET			
Project Number:				Sample Location	on (ie. MW-1):	GEI-8		
Project Name:	328.5 Illinois	Ave. Fairba	anks. AK	Sample ID (ie. l	•	,	GEI-8-W-0609	16	-
Client:	BBL	, , , , , , , , , , , , , , , , , , , ,		Date Sample C			9/16/2006		=
	Julie Ahern			Time sampled:	olicolog.		1600		-
Sampler:	Julie Ariem			Time sampled.			1000		
				Vell Information	1				
Groundwater:	Χ		Casing Diameter (in):	2"		a) Well Depth	(ft):	19.42/19.40	
						b) Water Dept		15.92/15.90	
Other:	Note: TOC is	s sloped ar	nd w/out measu	ıring point;		c) Water Colu	` '	3.5	
	max a	nd min dep	ths were meas	sured		d) Calc. Purge	e Vol. (gal):	0.6	
			Colour	leting Durge Ve	luma.				
Well Casing Diameter	Multiply c) by:		Calcu	lating Purge Vo	nume	Sand Pack Diameter	Multiply c) by:	T	
2 4	0.16 0.65					8	0.71	‡	
6	1.47					12	1.28	Ⅎ	
Example 1- purging only	well casing volume	1					d pack has 29% poros well casing and sar		
2-inch casing and 6-foot w One Purge Volume= 0.16		ater					sand pack, and 6-foo	ot water column 6) = 5.22 gallons water	
one raige volume= 0.10	7. 0 = 0.30 gallons we	3101				One i dige volume=	(0.10 % 0) 1 (0.71 %)	5) = 0.22 gallons water	
				MEASUREME	NTS				
_ .	Volume		Conductivity	Temperature					0.1
Time	(gallons)	pH	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1547	0.75	6.94	0.729	7.3	gray	615	Not	Not	mod sheen
1550	1.25	6.92	0.759	6.8	gray	571	Measured	Measured	
1552	1.75	6.90	0.758	6.7	gray	624	-	+	strong odor
				Į.					
Total Volume Pur	ged (Gallons):		1.75	-	Free Produ	uct (y/n):	No	_	
Odor:	Petroleum H	,			Sheen (y/n	n):	Yes		
Purge Method (di	sposable bail	l er , teflon ba	ailer, submersib	le pump, etc.)					
Sample Method (disposable ba	ailer, teflon	bailer, submersi	ble pump, etc.)					
Well Integrity (con	ndition of casin	a fluch moi	unt coaling prop	orly coment see	al intact oto	١			
Placed lock on we		ıy, ilusii illoi	unit sealing prop	erry, cernerit sea	ai iiitact, etc.	,			
	•								
Remarks (well red	•		,				_		
Well not located	and gauged t	till 9/16/06;	as such, water	level should no	ot be used i	in gradient estir	mation		
Describe et a Commo	I- ID:	Nana Oall	4 1		10	Danisatad	000/000	h AIZ 404/404	2
Duplicate Samp Split Sample ID:		None Colle			Analyses	Requested:	BTEX by 80	by AK 101/102	
opiit Gample 1D.	•	THOLIC COIL	COLEU		1		DIEV DA O	V_ 1D	
a					•		10/0-/		
Signed:	Julie Ahern				_	Date:	10/30/2006	o e	-
Signed/reviewer	. .					Date:			

			GROUNDWA	TER SAMPLE	DATA SH	EET			
Project Number:				Sample Location	n (ie. MW-1)):	GEI-9		_
Project Name:	328.5 Illinois	Ave, Fairba	ınks, AK	Sample ID (ie. N	ИW-1-W-yyr	nmdd):	G <u>EI-9-W-0609</u>	16	_
Client:	BBL			Date Sample Co	ollected:		9/16/2006		
Sampler:	Julie Ahern			Time sampled:			1445		• =
			V	/ell Information					
			Casing						
Groundwater:	X		Diameter (in):	4		a) Well Depth		18.74	
Other:						b) Water Deptlc) Water Colur	` '	<u>15.37</u> 3.37	
Otrior.			-			d) Calc. Purge	` ,	0.5	
						-, -			
			Calcul	lating Purge Vol	lume				
Well Casing Diameter	Multiply c) by:					Sand Pack Diameter	Multiply c) by:		
2 4	0.16 0.65					8 10	0.71 1	_	
6	1.47					12 Note: assuming sand	1.28 pack has 29% porosit] ty	
Example 1- purging only 2-inch casing and 6-foot w						Example 2- purging v 2-inch casing, 8-inch s			
One Purge Volume= 0.16		er				One Purge Volume= (
			FIELD	D MEASUREMEI	NTS				
Time	Volume (gallons)		Conductivity	Temperature	Color	Turbidity	Daday	Discalund O	Othor
Time 1425	(gallons) 0.6	pH 6.72	(mS) 1.06	(F) 6.3	Color	Turbidity 403	Redox Not	Dissolved O ₂	Other
1429	1.1	6.75	1.06	5.8	gray gray	556	Measured	Measured	very strong odor
1431	1.6	6.79	1.04	5.7	gray	466			mod sheen
								<u> </u>	<u> </u>
Total Volume Pur	rged (Gallons):		1.6		Free Produ	uct (y/n):	No		
Odor:	Petroleum Hy	ydrocarbon-	-Like Odor	<u></u>	Sheen (y/n	,	Yes	<u></u>	
Purge Method (d	isposable baile	er, teflon ba	iler, submersible	e pump, etc.)	•				
1									
Sample Method (disposable ba	iler, teflon l	bailer, submersi	ble pump, etc.)					
Well Integrity (cor	ndition of casino	a. flush moi	unt sealing prop	erlv. cement sea	l intact, etc.))			
Placed lock on we		5,		··· ·) ,	,	,			
Remarks (well re	200VATV LINUSLIA	-l conditions	(observations):						
Good recovery	COVETY, uriusua	I COHUIUOHa	1005ti Valions).						
•									
Duplicate Samp		None Colle			Analyses	Requested:		by AK 101/102	<u>;</u>
Split Sample ID							BTEX by 80	21B	
Signed/reviewe	ir.					Date:			

			GROUNDWA	TER SAMPLE	DATA SH	EET			
Project Number:				Sample Location	on (ie. MW-1):	GEI-10		=
Project Name:	328.5 Illinois	Ave, Fairba	ınks, AK	Sample ID (ie.	MW-1-W-yyr	mmdd):	GEI-10-W-0609	916	=
Client:	BBL			Date Sample C	ollected:		9/16/2006		_
Sampler:	Julie Ahern			Time sampled:			1730		- -
			W	ell Information	ı				
	V		Casing			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(6)	40.40	
Groundwater:	X		Diameter (in):	4		_a) Well Depth b) Water Dept		19.46 14.29	
Other:						c) Water Colu	. ,	5.17	
			=			d) Calc. Purge	` '	0.8	
						, ,	(0 /		
			Calcul	ating Purge Vo	lume				
Well Casing Diameter	Multiply c) by:					Sand Pack Diameter	Multiply c) by:		
2 4	0.16 0.65					8 10	0.71	=	
6	1.47					12 Note: assuming sand	1.28 d pack has 29% porosi	ity	
Example 1- purging only 2-inch casing and 6-foot w One Purge Volume= 0.16	well casing volume					Example 2- purging	well casing and sand sand pack, and 6-foot	d pack volume	
One Purge Volume= 0.16	X 6 = 0.96 gallons wat	er					(0.16 X 6) + (0.71 X 6)		
			FIELD	MEASUREME	NTS				
_	Volume		Conductivity	Temperature					
Time	(gallons)	рН	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1715	1 1	6.55	0.314	7.3	light gray	138	Not	Not	strong odor
1717 1720	1.75 2.75	6.50 6.45	0.299 0.288	6.9 6.9	light gray	146 240	Measured	Measured	mod sheen
1720	2.75	0.45	0.200	0.9	light gray	240		_	mod sneem
Total Valuma Du	rand (Callona):		2.75	I	Fron Drodu	ot (1/2):	No		
Total Volume Pui Odor:	rged (Gallons). Petroleum H	vdrocarbon		-	Free Produ Sheen (y/n)	,	No No	_	
Purge Method (d				e pump, etc.)	Sheen (y/n)).	INU		
, ,		•	·	,					
Sample Method (disposable ba	ilor toflon [hailar auhmarai	blo numn oto)					
Sample Metriod (disposable be	iller, telloll i	Janer, Submersi	bie puilip, etc.)					
Well Integrity (co	ndition of casin	g, flush mou	ant sealing prope	erly, cement sea	al intact, etc.)			
Placed lock on w	ен сар								
Remarks (well re	covery, unusua	l conditions	/observations):						
Good recovery.									
Duplicate Samp	olo ID:	CEL 40 WI	D 060046 @ 4	745	I A nalvaga I	Doguantadi	CDO/DDO	by AK 101/100	<u> </u>
Split Sample ID			D-060916 @ 1 ected	745	Analyses	Requested:	BTEX by 80	by AK 101/102 021B	
opiit Gampio 12	plit Sample ID: None Collected						<u> </u>	72.13	
Signed/reviewe	ianed/reviewer:					Date:			

				TED 041401 E	. D.A.T.A. OLL					
			GROUNDWA	TER SAMPLE	_					
Project Number:				Sample Locatio	on (ie. MW-1)):	GEI-11		_	
Project Name:	328.5 Illinois	s Ave, Fairba	nks, AK	Sample ID (ie. I	MW-1-W-yyr	mmdd):	<u>EI-11-W-0609</u>	917	_	
Client:	BBL			Date Sample C	ollected:		9/17/2006		_	
Sampler:	Julie Ahern			Time sampled:			1300		_	
			W	lell Information					_	
			Casing							
Groundwater:	Χ		Diameter (in):	4		_a) Well Depth		19.74/19.75		
						b) Water Dept		14.90/14.91		
Other:			d w/out measu	• •		c) Water Colu	. ,	4.84		
	max a	ana min aep	ths were meas	surea		d) Calc. Purge	e voi. (gai):	0.8		
			0.1.1							
Well Casing Diameter	Multiply c) by:	l	Calcul	ating Purge Vo	lume	Sand Pack Diameter	Multiply c) by:	T T		
2	0.16					8	0.71	<u> </u>		
6	0.65 1.47					10 12	1 1.28	-		
F		•				_	pack has 29% porosi	-		
Example 1- purging only 2-inch casing and 6-foot w	well casing volume ater column	!				2-inch casing, 8-inch		water column		
One Purge Volume= 0.16	X 6 = 0.96 gallons wa	ater				One Purge Volume=	(0.16 X 6) + (0.71 X 6)	= 5.22 gallons water		
			FIELD	MEASUREME	NTS					
	Volume		Conductivity	Temperature	0.1	T 1.1%	Б.	D: 1 10	0:1	
Time	(gallons)	pH	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other	
1250	0.75	6.79	0.95	6.1	gray	702	Not	Not	very strong odor	
1253	1.5	6.82	0.97	5.7	gray	999	Measured	Measured		
1255	2.25	6.87	0.96	5.5	gray	999			heavy sheen	
									silty	
									<u>l</u>	
Total Volume Pur	• , ,		2.25	-	Free Produ	. ,	No	_		
Odor: Purge Method (d i	Petroleum F	lydrocarbon-	Like Odor iller, suhmersihl	le numn etc.)	Sheen (y/n):	No			
i dige Metriod (di	isposable bai	ilei , telloli be	iller, Submersion	e pump, etc.)						
Sample Method (disposable b	ailer, teflon b	oailer, submersi	ble pump, etc.)						
Well Integrity (cor	ndition of casir	ng, flush mou	int sealing prop	erly, cement sea	al intact, etc.)				
Placed lock on we	ell cap									
Remarks (well red	201/08/ 11011011	al conditions	(obconvotions):							
Good recovery.	covery, unusu	ai conditions	observations).							
Duplicate Samp	ole ID:	None Colle	ected		Analyses	Requested:	GRO/DRO/	RRO by AK10	1/102/103	
Split Sample ID		None Colle			1	1		BE by 8021B		
	<u></u>					RCRA Metals by 6010/7470			70	
							VOCs by 82	260B		
1							PAHs by 8270; EDB by 8011			

			GROUNDWA	TER SAMPLE	DATA SHE	ET			
Project Number:				Sample Location	(ie. MW-1):		GEI-12		=
Project Name:	328.5 Illinois	Ave, Fairba	nks, AK	Sample ID (ie. M	W-1-W-yym	mdd): G	EI-12-W-0609	16	_
Client:	BBL			Date Sample Col	lected:		9/16/2006		_
Sampler:	Julie Ahern			Time sampled:			1815		_
			V	Vell Information					
			Casing				(4.)		
Groundwater:	X		Diameter (in):	2 "		_a) Well Depth (b) Water Depth		19.64/19.66 14.59/1461	
Other:	Note: TOC is	s sloped an	d w/out measu	ırina point:		c) Water Colur		5.05	
			ths were meas			d) Calc. Purge	` '	0.8	
			Calcu	lating Purge Vol	ume				
Well Casing Diameter 2 4 6 Example 1- purging only 2-inch casing and 6-foot we One Purge Volume= 0.16 \(\)	ater column	er				Sand Pack Diameter 8 10 12 Note: assuming sand Example 2- purging v 2-inch casing, 8-inch s One Purge Volume= (6	well casing and sand and pack, and 6-foot	d pack volume water column	
			FIELI	D MEASUREMEN	ITS				
Time	Volume (gallons)	рН	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1800	1	6.85	0.520	4.2	gray	321	Not	Not	mod sheen
1803	1.75	6.88	0.510	3.5	gray	385	Measured	Measured	1
1805	2.7	6.88	0.510	3.3	gray	349			strong odor
						†			
Total Valuma Dur	and (Callona).		2.7		Cros Drodu	ot () (/p):	No	1	
Total Volume Pure Odor:	ged (Gallons). Petroleum H				Free Produ Sheen (y/n)	,	No Yes	-	
Purge Method (di				e pump, etc.)	Chech (y/h)	<i>)</i> -	100		
Sample Method (
Well Integrity (con Placed lock on we	ell cap			erly, cement seal	intact, etc.)				
Remarks (well red Good recovery	covery, unusua	l conditions	observations):						
Duplicate Samp		None Colle			Analyses	Requested:		using AK101/	
Split Sample ID:	_	None Colle	ected				DRO/RRO	using AK102/1	03

			GROTINDMA.	TER SAMPLE	DATA SH	FFT				
Project Number:				Sample Locatio			K-5			
Project Name:	328.5 Illinois	Ave Fairba		Sample ID (ie. I	` ′	•	K-5-W-06092		•	
Client:	BBL	Avc, i aliba		Date Sample Co		minaa).	9/27/2006	ı		
				•	ollected.		-		•	
Sampler:	Julie Ahern			Time sampled:			1115			
				ell Information						
Groundwater: Other:	<u>X</u>		Casing Diameter (in):	2"		a) Well Depth (b) Water Depth c) Water Columbia d) Calc. Purge	n (ft): nn (ft):	19.01 15.14 3.87 0.6		
	Calculating Purge Volume									
2-inch casing and 6-foot wa	2 0.16 4 0.65 6 1.47 Note: assuming sand pack has 29% porosity 1- purging only well casing volume ing and 6-foot water column e Volume= 0.16 X 6 = 0.96 gallons water 8 0.71 12 1.28 Note: assuming sand pack has 29% porosity Example 2- purging well casing and sand pack volume 2-inch casing, 8-inch sand pack, and 6-foot water column One Purge Volume= (0.16 X 6) + (0.71 X 6) = 5.22 gallons water									
			FIELD	MEASUREME	NTS					
Time	Volume (gallons)	рН	Conductivity (mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other	
1105	0.75	6.70	0.808	6.8	clear	132	Not	Not	mod sheen	
1110	1.5	6.84	0.803	6.3	clear	171	Measured	Measured	small black	
1112	2	6.88	0.790	6.2	clear	151			particles	
									mod odor	
						<u>.</u>				
Total Volume Pur			2		Free Produ	,	No	_		
Odor: Purge Method (di Sample Method (l er , teflon ba	iler, submersibl		Sheen (y/n)).	Yes			
Well Integrity (con Robco monument Replaced well cap	cover is diffic with locking	ult to move, well cap.	requires large a				1/06.			
Remarks (well red Good recovery. W				ls; as such, wa	ter level sh	ould not be use	ed in gradient	estimation		
Duplicate Samp Split Sample ID:		None Colle None Colle			Analyses Requested: GRO/DRO by AK 101/102 BTEX by 8021B					

			GROUNDWA	TER SAMPL	E DATA SH	HEET			
Project Number:				Sample Locat	ion (ie. MW-	1):	K-7		_
Project Name:	328.5 Illinois	Ave, Fairba	anks, AK	Sample ID (ie	. MW-1-W-yy	rmmdd):	K-7-W-06091	6	_
Client:	BBL			Date Sample	Collected:		9/16/2006		-
Sampler:	Julie Ahern			Time sampled	l:		1700		•
			10	/ell Informatio					
			Casing	ren iniormatio)II				
Groundwater:	Χ		Diameter (in):	2"		a) Well Depth		18.11	
						b) Water Dept		13.49	
Other:			_			c) Water Colu		4.62	
						d) Calc. Purge	voi. (gai):	0.7	
			Calcul	ating Purge V	olume				
Well Casing Diameter	Multiply c) by:		Valcui	ating runge v	Olume	Sand Pack Diameter	Multiply c) by:		
2	0.16 0.65					8 10	0.71	7	
6	1.47					12	1.28	_	
Example 1- purging only	well casing volume					Note: assuming sand Example 2- purging	well casing and san	d pack volume	
Example 1- purging only 2-inch casing and 6-foot w One Purge Volume= 0.16	vater column X 6 = 0.96 gallons wat	ter				2-inch casing, 8-inch : One Purge Volume= (
	Volume		Conductivity	Temperature		T	1	Т	ı
Time	(gallons)	рН	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1642	1	7.34	0.326	5.8	clear	50	Not	Not	no sheen
1645	1.75	7.25	0.330	5.3	clear	36	Measured	Measured	no odor
1647	2.7	7.21	0.330	5.2	clear	68			
Total Volume Pur			2.7	-	Free Prod	,	No	_	
Odor: Purge Method (d i	None detecte		ailer submersibl	le numn etc)	Sheen (y/ı	n):	No		
i dige Metilod (d	isposable ball	er, tenon b	aller, Submersibl	ie puilip, etc.)					
Sample Method (disposable ba	ailer, tetlon	bailer, submersi	ble pump, etc.))				
Well Integrity (cor Placed lock on we	ndition of casin	g, flush mo	unt sealing prop	erly, cement se	eal intact, etc	:.)			
Placed lock on w	ell cap								
Remarks (well re	covery, unusua	al conditions	s/observations):						
Good recovery									
					T				
Duplicate Samp		None Coll None Coll			Analyses	Requested:		by AK 101/102	
Split Sample ID	•	INOTIE COIL	EUIEU		-		BTEX by 80	JLID	
					1	_		_	
Signed:	igned: Julie Ahern					Date:	10/30/2006	5	-
Signed/reviewe	ned/reviewer:					Date:			

			GROUNDWA	TER SAMPLE	DATA SH	EET				
Project Number:				Sample Location	(ie. MW-1):		MW-2		_	
Project Name:	328.5 Illinois	Ave, Fairba	ınks, AK	Sample ID (ie. M	IW-1-W-yym	ımdd):	И <u>W-2-W-0609</u>	15	_	
Client:	BBL			Date Sample Co	llected:		9/15/2006		-	
Sampler:	Julie Ahern			Time sampled:			1710			
			V	Vell Information						
_			Casing							
Groundwater:	X		Diameter (in):	2"		a) Well Depth		21.88		
Other:						b) Water Deptlc) Water Colur	` '	15.31 6.57		
Other.			-			d) Calc. Purge	. ,	1.1		
						a, calor : a.go	(94.).			
			Calcu	lating Purge Vol	ume					
Well Casing Diameter	Multiply c) by:					Sand Pack Diameter	Multiply c) by:			
2 4	0.16 0.65					8 10	0.71			
6	1.47					12 Note: assuming sand	1.28 d pack has 29% poros	sity		
Example 1- purging only 2-inch casing and 6-foot v						Example 2- purging 2-inch casing, 8-inch	well casing and san	d pack volume		
One Purge Volume= 0.16		ater						i) = 5.22 gallons water		
			FIEL	D MEASUREMEN	NTS					
There	Volume	-11	Conductivity	Temperature (F)	0-1	T	Daday	Discoulous d O	Other	
Time 1654	(gallons)	рН 6.97	(mS) 0.473	7.2	00.0.	Turbidity 672	Redox Not	Dissolved O ₂	Other faint odor	
1659	2	7.05	0.473	6.8	orange orange	600	Measured	Measured	light sheen	
1702	3	7.10	0.481	6.6	orange	496	Wicasarca	Wicasarca	light oncom	
					5.595					
Total Volume Pu	rged (Gallons):		3		Free Produ	ıct (y/n):	No			
Odor:	Petroleum Hy	ydrocarbon-	Like Odor	•	Sheen (y/n		Yes	_		
Purge Method (d	isposable bail	er, teflon ba	ailer, submersibl	le pump, etc.)						
Sample Method (disposable ba	iler, teflon	bailer, submersi	ble pump, etc.)						
	· · ·									
Well Integrity (co	ndition of casin	a flush moi	ınt sealing prop	erly cement seal	intact_etc.)					
Placed lock on w		g,		,,						
Remarks (well re			/ah a a m (ati a m a) .							
Good recovery	covery, unusua	ii conditions	/observations):							
,										
		None Colle	ected		Analyses	Requested:	GRO/DRO	by AK 101/102	2	
Split Sample ID): -	None Coll	ected]		BTEX by 80			
Sianed/reviewe	•					Date:				

			GROUNDWA	TER SAMPLE	DATA SH	EET			
Project Number:				Sample Locatio	n (ie. MW-1)	·	MW-4		
Project Name:	328.5 Illinois	Ave. Fairba	nks. AK	Sample ID (ie. N			/W-4-W-0609	15	•
Client:	BBL	,	-,	Date Sample Co	• • • • • • • • • • • • • • • • • • • •	,	9/15/2006	-	-
Sampler:	Julie Ahern			Time sampled:			1630		•
Gampier.	Julie Allem			·			1000		-
			Casing	lell Information					
Groundwater:	Χ		Diameter (in):	2"		a) Well Depth	(ft):	24.19	
						b) Water Depth	n (ft):	18.48	
Other:			<u>-</u>			c) Water Colum	nn (ft):	5.71	
						d) Calc. Purge	Vol. (gal):	0.9	
Well Cooling Diameter	Multiply of by		Calcul	ating Purge Vo	lume	Cond Dook Diameter	Multiply of by	T	
Well Casing Diameter 2	Multiply c) by: 0.16					Sand Pack Diameter 8	Multiply c) by: 0.71	<u> </u>	
4 6	0.65 1.47					10 12	1 1.28	<u> </u>	
						Note: assuming sand	pack has 29% poros		
Example 1- purging only 2-inch casing and 6-foot v		1				Example 2- purging 2-inch casing, 8-inch s			
One Purge Volume= 0.16	X 6 = 0.96 gallons wa	ater				One Purge Volume= (0.16 X 6) + (0.71 X 6	s) = 5.22 gallons water	
			FIELD	MEASUREME	NTS				
	Volume		Conductivity	Temperature					
Time	(gallons)	рН	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1619	1	6.88	0.248	7.9	orange	464	Not	Not	uncertain
1622	2	6.74	0.223	7.8	orange	235	Measured	Measured	sheen and
1625	3	6.71	0.219	7.5	orange	249			odor (see remarks
									below)
							l		, , , , , , , , , , , , , , , , , , ,
Total Volume Pur	rged (Gallons):		3	•	Free Produ	ct (y/n):	No	_	
Odor:	Uncertain				Sheen (y/n)):	Uncertain		
Purge Method (d	isposable bail	l er , teflon ba	iller, submersibl	e pump, etc.)					
Sample Method (disposable ba	ailer, teflon l	oailer, submersi	ble pump, etc.)					
Well Integrity (cor	ndition of casin	a flush mou	ınt sealing nron	erly cement sea	Lintact etc.)				
Placed lock on we		9, 114011 11100	in ocaling prop	ony, comon coa	i iiiaot, oto.,				
D (1 12	/ I						
Remarks (well red Detected odor an				ter-quality meter	· however n	o sheen or odor	was datacted	in hailer or VOA	
vials. As such, su									
container.	aopoor 0110011 c		ornamor ringini	oo ronnianto or p	TOTIOGO WOII	o comanination	(11111 0) 400p.	to ologiming of	
Duplicate Samp	ole ID:	None Colle	ected		Analyses I	Requested:	GRO/DRO	by AK 101/102	2
Split Sample ID		None Colle]	•	BTEX by 80		
Signed:	Julie Ahern					Date:	10/30/2006	;	
o.g.ioa.	Julio / HIGH				=	Date.	10/00/2000	•	=
Signed/reviewe	r:					Date:			

GROUNDWATER SAMPLE DATA SHEET											
Project Number:				Sample Location	on (ie. MW-1)):	MW-5				
Project Name:	328.5 Illinois	Ave, Fairba	nks, AK	Sample ID (ie.	MW-1-W-yyr	nmdd):	/W-5-W-0609	15			
Client:	BBL			Date Sample C	collected:		9/15/2006		-		
Sampler:	Julie Ahern			Time sampled:			1545		-		
			W	ell Information							
			Casing								
Groundwater:	X		Diameter (in):	2"		a) Well Depth		21.55			
Otherw						b) Water Depth		15.11			
Other:			-			c) Water Colurd) Calc. Purge	, ,	1.0			
						u) Gaic. Furge	voi. (gai).	1.0			
			Calcula	ating Purge Vo	lume						
Well Casing Diameter	Multiply c) by:		Valcul	atting i dige vo	Idilic	Sand Pack Diameter	Multiply c) by:				
2 4	0.16 0.65					8 10	0.71				
6	1.47					12 Note: assuming sand	1.28	intr.			
Example 1- purging only						Example 2- purging	well casing and san	d pack volume			
2-inch casing and 6-foot w One Purge Volume= 0.16		ter				2-inch casing, 8-inch one Purge Volume=		t water column i) = 5.22 gallons water			
			EIEI D	MEACUDEME	NTC						
	Volume		Conductivity	MEASUREME Temperature	NIS 	T	1		l		
Time	(gallons)	рН	(mS)	(F)	Color	Turbidity	Redox	Dissolved O ₂	Other		
1527	1	6.79	0.477	6.7	light gray	151	Not	Not	heavy sheen		
1534	2	6.84	0.493	6.6	light gray	206	Measured	Measured	very strong		
1537	3.1	6.85	0.516	6.0	light gray	492			odor		
1539	3.6	6.87	0.520	5.9	light gray	384					
Total Volume Pur	ged (Gallons):		3.6		Free Produc	ct (y/n):	No	_			
Odor:	Petroleum Hy				Sheen (y/n)	:	Yes				
Purge Method (di	sposable bail	er , teflon ba	iler, submersibl	e pump, etc.)							
Sample Method (disposable ba	iler, teflon b	pailer, submersi	ble pump, etc.)							
Well Integrity (cor	ndition of casing	g, flush mou	int sealing prope	erly, cement sea	al intact, etc.))					
Placed lock on we	ell cap										
Remarks (well red	covery, unusua	L conditions/	observations):								
Good recovery	,,,		0200.10.00								
Duplicate Samp			-060915 @ 16	515	Analyses F	Requested:		by AK 101/102	2		
Split Sample ID	:	None Colle	ected		J		BTEX by 80)21B			
Signed/reviewe	r:					Date:					

			GROUNDWA	ATER SAMPLE	DATA SHE	ET			
Project Number:				Sample Location	(ie. MW-1):		MW-6		_
Project Name:	328.5 Illinois	Ave, Fairba	ınks, AK	Sample ID (ie. M'	W-1-W-yym	mdd):	<u>/W-6-W-0609</u>	15	_
Client:	BBL			Date Sample Col	llected:		9/15/2006		_
Sampler:	Julie Ahern			Time sampled:			1500		_
			V	Vell Information					
			Casing					27.00	
Groundwater:	X		Diameter (in):	2"		_a) Well Depth (b) Water Depth		25.22 18.11	
Other:						c) Water Deptr		7.11	
Ouron.			-			d) Calc. Purge		1.1	
						, -	,,		
			Calcu	lating Purge Volu	ume				
Well Casing Diameter	Multiply c) by:					Sand Pack Diameter	Multiply c) by:]	
2 4	0.16 0.65					8 10	0.71	<u> </u>	
6	1.47					12 Note: assuming sand	1.28 pack has 29% porosit	<u>I</u> ty	
Example 1- purging only 2-inch casing and 6-foot wa						Example 2- purging w 2-inch casing, 8-inch sa			
One Purge Volume= 0.16 2		er e				One Purge Volume= (0			
			FIEL	D MEASUREMEN	ITS				
Time e	Volume	-11	Conductivity	Tamparatura (E)	Cales	To colo i alias a	Distant	Discoulated O	Other
Time	(gallons)	pH	(mS)	Temperature (F)	Color	Turbidity	Redox	Dissolved O ₂	Other
1447 1452	1.25 2.4	6.81	1.09 1.06	5.6 4.9	clear clear	216 138	Not Measured	Not Measured	no odor mod sheen
1457	3.4	6.90	1.06	4.8	clear	170	MEasurea	MEasurea	THOU SHOOM
Total Volume Pur	rned (Gallons):		3.4		Free Produ	ct (v/n):	No		
Odor:	None detecte	ed	0.1		Sheen (y/n)	,	Yes	-	
Purge Method (di			ailer, submersibl	e pump, etc.)		,			
1									
Sample Method (disposable ba	iler, teflon l	bailer, submersi	ble pump, etc.)					
	-								
Well Integrity (cor	ndition of casing	a flush mou	int sealing nron	erly cement seal	intact etc.)				
Placed lock on we		J, 110311 11100	int scaming prop.	elly, comon coan	intaot, oto.,				
Damarka (wall ro	227027 110110110	l aanditione	/-baam (ationa):						
Remarks (well red Good recovery	covery, unusua	l COMORRONS	/observations _j .						
,									
	1	None Colle	ected		Analyses I	Requested:	GRO/DRO	by AK 101/102	2
Split Sample ID:	:i	None Colle	ected]	-	BTEX by 80		-
Signed/reviewer	r·				Date:				

Attachment D

Well Search Survey Responses





September 12, 2006

Frederick R Smith 316 Minnie St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for p Yes No Unknown	ourpo	ses other than drinking water?
	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water Well Diameter UNKNOWN	is from a well):				
Cosing Size	rear Installed Wryglywy				
Casing SizeWell Depth					
Screen Location NOT USED A					
Driller PRESENT TIME Well Logs Available?					
Water Quality					
Has Quality Changed?	_ If Yes, How?				
Are there any streams/creeks located on your p Yes No	property?				
Are you aware of any other drinking water we Yes No	lls in the area?				
If yes, please list any known information:					
	_ 				
Additional Remarks:					
					
Printed Name: FRANCES SMIT Signature: Sumul Ameth Please return to:	1+ Date: <u>10/1/04</u>				
Signature: Sumul Smith	Title: <u>CV - OWNER</u>				
Please return to:	BAnith				
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218				

Seattle, Washington 98102

Attn: Rebecca Andresen

Thank you for your time and assistance.

email: randresen@bbl-inc.com



September 12, 2006

Allyn E Yanish 508 Monroe St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source So	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	re a well on your property that is used for Yes No Unknown	purpos	ses other than drinking water?
If Yes	s, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock	X Well	Irrigation Other, explain: has been inactive for

Well Information (to be completed if wa	ter is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Well Logs Available?	
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No	our property?
Are you aware of any other drinking water Yes No	wells in the area?
If yes, please list any known information:	
Additional Remarks: I don't Know how in active, I have I furchased this prop	long the well has been not used it since
Printed Name: Allyn Yanish	Date: 10/4/06
Signature: Cllytte January	Title:
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Carla Licalsi Revocable Trust 1016 Pioneer Rd Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sourc	ce of drinking water on your property:		
	Well		
	Spring		
\times	City/County Water		
\times	Unknown		
Is the	re a well on your property that is used for I	purpos	ses other than drinking water?
	Yes		
	No		
\times	Unknown		
If Yes	s, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing	- 1	
	Livestock	_	

Well Information (to be completed if wat	
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller Well Logs Available?	
Well Logs Available?	
Pump Type	
Water QualityHas Quality Changed?	****
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on you Yes No	ur property?
Are you aware of any other drinking water Yes No	wells in the area?
If yes, please list any known information:	
WE USED TO HAVE AND BUT IT IS DRIE OVER I	TTEL SLOW BY HEIN ARE GARAGE
Additional Remarks:	
	ai Date: Sept. 28. 2006
Signature: CARLA LICALSI	Title:
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

J & W Properties LLC 346 Minnie St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Source	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for page 1995. Yes No Unknown	purpos	ses other than drinking water?
If Ye	s, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water	r is from a well):
Well Diameter	
Casing Size	
Well Depth	
Casing Depth	
Screen Location	Un known
Driller	1101 12000 4
Well Logs Available?	
Pump Type	
Water Quality	
Water Quality Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No Are you aware of any other drinking water we	
Yes No	ons in the died.
If yes, please list any known information: New Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to the Market to	ngles the lawn but had he part several years vell during renovation in 2005/2006
Additional Remarks:	
Printed Name: Brad Jahuston	2 Date: 9/29/06
Signature:	Date: 9/29/06 Title:
Please return to:	
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	——————————————————————————————————————



September 12, 2006

Licalsi Family Limited Partnership 1005 Pioneer Rd Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	well Spring City/County Water Unknown		
Is th	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water	is from a well):
Well Diameter	Year Installed
Casing Size	_
Well Depth	
Casing Depth	_
Screen Location	
Driller	
Well Logs Available?	
Pump Type	
Water Quality	
Water Quality Has Quality Changed?	_ If Yes, How?
Are there any streams/creeks located on your part of Yes No	
Are you aware of any other drinking water we Yes No	ells in the area?
Additional Remarks: THER WAS A SLOW, B	UT IT IS DRIE KNOW
	S/ Date: SEPT. 28. 2006
Signature: louly Licalsi	Title:
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 THIS A PRIVET PHONE NO Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Clifford Wenzlick 1008 Pioneer Rd Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is th	ere a well on your property that is used for Yes No Unknown	purpe	ses other than drinking water?
If Ye	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if	water is from a well):
Well Diameter 2	Year Installed
Casing Size	
Well Depth 25	_
Casing Depth	
Screen Location	
Driller	_
Well Logs Available?	_
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How? Not Used
Are there any streams/creeks located or	1 your property?
Yes	
No	
Are you aware of any other drinking war Yes No	ater wells in the area?
If yes, please list any known information	on:
Additional Remarks:	
·	
2. 25 1	
Printed Name: Cliff Wer	12Lick Date: 9-29-06
Signature: Olyf Wen	glick Title: Owner
Please return to:	
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	



September 12, 2006

Suzanne L Maestas 366 Slater St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for pur Yes No Unknown	pos	ses other than drinking water?
	Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water	is from a well):	
Well Diameter	Year Installed	1940 2
Casing Size	_	
Well Depth		
Casing Depth	_	
Screen Location	_	
Driller		
Well Logs Available?		
Pump Type olootric	-	
Water Quality		
Has Quality Changed?	_ If Yes, How?	
Are there any streams/creeks located on your programs of the Yes No Are you aware of any other drinking water we Yes No If yes, please list any known information: Additional Remarks:		
Printed Name: Suzanne MeesT	Date:	9/29/06
Signature:	Title:	
Please return to:		
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Facsi	e: (206) 325-5254 x 1017 mile: (206) 325-8218 l: randresen@bbl-inc.com



September 12, 2006

Kenneth A Risse 345 Church St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown	
Is the	ere a well on your property that is used for page 1988. No Unknown	ses other than drinking water?
If Ye	Domestic Bathing Domestic Washing Livestock	Irrigation Other, explain:

Well Information (to be completed if w	vater is from a well):
	Year Installed PRIOR 70 1978
Casing Size / £"	
Well Depth UNKNOWN	
Casing Depth UNKNSWN	
Screen Location UNKNOWN	
Driller UN KASUN	
Well Logs Available? No	
Pump Type NOT PRESENTLY	WORKING (SHALLOW WITH PUMP)
Water Quality VNKNOWN	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on Yes No Are you aware of any other drinking wat Yes No If yes, please list any known information Additional Remarks:	er wells in the area?
Additional Remarks:	
	0 17-0/
Printed Name: Kenneth Riss	Se Date: 9 - 27 -06
Signature: Jenn Holling	Title: Owner
Please return to:	
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	oman. randresente out-me.com
A KULL TOOCCOU / HIGHOSOH	



September 12, 2006

Donna M Dowling 301 Slater St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown	
Is the	ere a well on your property that is used for page 1995. Yes No Unknown	purposes other than drinking water?
If Ye	s, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing	Irrigation Other, explain:
	Domestic Washing Livestock	capped off-possible

Well Information (to be completed if was	ter is from a well):
Well Diameter	Year Installed estimate 1950 I purchased this house In 2003
Casing Size	- I and and His house
Well Depth	I purchased This houst
Casing Depth	in 2003
Screen Location	
Driller	
Well Logs Available?	
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on yo Yes on books of Cooking No Are you aware of any other drinking water Yes No - unknown	Chena River
The second of the second	
If yes, please list any known information:	
Additional Remarks:	
Printed Name: Dona Dow	ling Date: 9-26-66
Signature: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Title: owner
Please return to:	
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	cman. randicochagoot-mc.com
recoodu z midrosoli	



September 12, 2006

Michael E Grahek 815 Pioneer Rd Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Source	well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for p Yes No Unknown	ourpos	es other than drinking water?
If Ye	s, what is it used for? (check all that apply) Domestic Drinking		Irrigation
	Domestic Bathing Domestic Washing Livestock		Other, explain: NOT USED

Well Information (to be completed if water	is from a well):			
Well Diameter 2"	Year Installed	PRE 1940		
Casing Size 2"	_			
Well Depth SHALLOW				
Casing Depth				
Screen Location	_			
Driller				
Well Logs Available? No				
Pump Type	-			
Water Quality				
Has Quality Changed?	_ If Yes, How?			
Are there any streams/creeks located on your property? Yes No Are you aware of any other drinking water wells in the area? Yes No If yes, please list any known information:				
Additional Remarks:				
Printed Name: MICHAEL E. GRAHE	V Datas	22 (2001		
Filled Name. MICHAEL E. SRATE	Date.	C SSEP COOG		
Signature: Mecha & Grahal	Title:	DWNER		
Please return to:				
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Facs	ne: (206) 325-5254 x 1017 imile: (206) 325-8218 il: randresen@bbl-inc.com		



September 12, 2006

Michael E Grahek 801 Pioneer Rd Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Source	e of drinking water on your property:
	Well
	Spring
\times	City/County Water
	Unknown
Is the	re a well on your property that is used for purposes other than drinking water?
\times	Yes
	No
	Unknown
If Yes	, what is it used for? (check all that apply)
	Domestic Drinking
	Domestic Bathing Other, explain:
	Domestic Washing NOT USED
	Livestock

Well Information	on (to be completed i	if water is from a well):
Well Diameter_	2"	Year Installed ± 1938
Casing Size	2"	
Well Depth	SHALLOW	
Casing Depth		
Screen Location		
Driller		_
Well Logs Avail	able? 140	
Pump Type		
Water Quality		
Has Quality Cha	nged?	If Yes, How?
Yes No	reams/creeks located of	
Are you aware o Yes No	f any other drinking v	vater wells in the area?
If yes, please list	any known informat	ion:
Additional Ren	narks:	
Printed Name: _	MICHAEL E. G	SRAHEK Date: 23 SEP 2006
Signature:	Richart Yr	aful Title: OWNER
Please return to:	,	
Blasland, Bouck 2300 Eastlake A Seattle, Washing Attn: Rebecca A	venue, Suite 100 eton 98102	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Michael E Grahek 803 Pioneer Rd Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Source	ce of drinking water on your property:		
	Well		
	Spring		
\times	City/County Water		
	Unknown		
Is the	re a well on your property that is used for p	niirnas	es other than drinking water?
×	Yes	ui pos	es other than trimking water.
Ħ	No		
H	Unknown		
ш	Olikilowii		
If Yes	s, what is it used for? (check all that apply)		
	Domestic Drinking	\times	Irrigation
	Domestic Bathing		Other, explain:
百	Domestic Washing		Alors
П	Livestock		

Well Information (to be completed in	f water is from a well):
Well Diameter 2"	Year Installed ± 1938
Casing Size Z"	
Well Depth SHALLOW	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
Casing Depth	WATER LEVEL @15-20FT.
Screen Location	
Driller	
Well Logs Available? No	
Pump Type CEUTAIFUGA	
Water Quality Not TESTED	_
Has Quality Changed? No	If Yes, How?
Are there any streams/creeks located of Yes No Are you aware of any other drinking was Yes No If yes, please list any known information	vater wells in the area?
Additional Remarks:	
Printed Name: MICHAELE, ST	PAHEK Date: 23 SEP 2006
Signature: Meshel Gre	Ack Title: OWNER
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Lambert Hazelaar 345 Minnie St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Source	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	re a well on your property that is used for p	ourpos	ses other than drinking water?
X	Yes		
	No		
	Unknown		
~~~			
If Yes	s, what is it used for? (check all that apply)	_	
	Domestic Drinking	$\times$	Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if water Well Diameter	is from a well): Year Installed
Casing Size	
Well Depth	
Casing Depth	- water my flowing
Screen Location	= 000111
Driller	
Well Logs Available?	
Pump Type	
Water Quality	•
Has Quality Changed?	_ If Yes, How?
Are there any streams/creeks located on your Yes No	property?
Are you aware of any other drinking water we Yes No	ells in the area?
If yes, please list any known information:	
Additional Remarks:	
01 - 11 0	02E/6980 ate: Syl 23,06
Signature for west of ageli	Title: Outner
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Byron Haley 1002 Pioneer Rd Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	Ce of drinking water on your property:  Well Spring City/County Water Unknown		
Is th	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if wa	ter is from a well): Year Installed
Well DiameterCasing Size	i ear mistaned
Wall Danth	<del></del>
Casing Depth	
Screen Location	
Driller	<del></del>
Well Logs Available?	
Pump Type	
Water Quality	<del></del>
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on yo	our property?
Yes	
No	
Are you aware of any other drinking water  Yes No	wells in the area?
If yes, please list any known information:	
Additional Remarks:  Jhane y well but	it is not in use and
Printed Name: ByRon W. Hall	Date: 9-23-06
Signature: Byron/w/ Jook	LeyTitle:
Please return to:	
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	



September 12, 2006

Marie E Fletcher 504 Monroe St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
X	Yes		g
	No		
	Unknown		
_			
If Ye	es, what is it used for? (check all that apply	)	
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
$\mathbf{\times}$	Domestic Washing		, <u>F</u>
X	Livestock		

Well Information (to be completed if v	vater is from a well):	1960? When house was
Well Diameter	YY Y . 11 1	1960 origanally
Casing Size		· ·
Well Depth		
Casing Depth		
Screen Location		
Driller		
Well Logs Available?		
Pump Type		
Water Quality unknown		
Has Quality Changed?	If Yes, How?	
Are there any streams/creeks located on Yes No	your property?	
Are you aware of any other drinking wat Yes No	er wells in the area?	
If yes, please list any known information	1:	
Additional Remarks:  We have owned this We have not used to The quality of the u atthis time.	house less he well in well water is	than & years. Those of years. Unknown to us
Printed Name: Marie E. Flet	eher Date:	9-27-06
Signature: Marie & States	derTitle:	
Please return to:		
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Facs	ne: (206) 325-5254 x 1017 imile: (206) 325-8218 il: randresen@bbl-inc.com



September 12, 2006

Golden Valley Electric Association Inc 516 Illinois St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	rce of drinking water on your proper Well Spring City/County Water Unknown	rty:
Is th	ere a well on your property that is u Yes No Unknown	sed for purposes other than drinking water?
If Yo	es, what is it used for? (check all that Domestic Drinking Domestic Bathing Domestic Washing Livestock	Irrigation Other, explain:

Well Information (to be completed if water	er is from a well):
Well Diameter 2 'Casing Size 2 '7'	Vear Installed
Casing Size 2 '7	DATE of MINNIE STREET CANDUSAN'S
Well Depth 20/	- DATE OF MINNIE
Casing Depth 30'	
Screen Location Porton &	STREET (AND USTER)
Driller 7-	Grear Strong.
Well Logs Available?	Corpor Study
Pump Type 114	•
Water Quality	_
Has Quality Changed?	If Yes, How?
	<u> </u>
Are there any streams/creeks located on you	r property?
Yes	
No	
Are you aware of any other drinking water v	wells in the area?
Yes	Total III tille di tal.
No No	
<del>4</del> 1.0	
If yes, please list any known information:	11 - 1
Piere De Est To	MONNIE STREET LAND HER'S
GROUT and	Es en laca Aleca Co
GOA COM POG 1/5 28/11	2 / - O The of File
CON COMPREHENSIUE  REMARCON I NOWS - PELA  Additional Remarks:	Hog Course on word con
Additional Remarks:	n 428)
6 15 9A DA CHA NOW	9 17 1100 MARINE 10 2016
INSTACES ON ITS	PROPERTY - AU BUS HOE
70304000 800 115	riging Mu mass Afor
Seen Cuotes out Do	12 VON-DETECT.
_ 1/	
Printed Name: / Romas Stan	16/1 Data: 10/2//al
Timed Walle.	Title: FURNIME & Acuires Marca
Signatura	Title thanks of Care - allace
Signature:	Thie. Turky with a state of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the
Please return to:	
riease return to.	
Blasland Bouck & Lea Inc	Phone: (206) 225 5254 - 1017
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	



September 12, 2006

Licalsi Family Limited Partnership 1000 Pioneer Rd Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes		
Щ	No		
X	Unknown		
TC X 7			
It Ye	s, what is it used for? (check all that apply)	_	
Ш	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if water i	•
Well Diameter Y	
Casing Size	
Well Depth	
Casing Depth	
Screen Location	-
Driller	
Well Logs Available?	
Pump Type	
Water Quality	YCXZ YY O
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your programs Yes No	roperty?
Are you aware of any other drinking water well Yes No	Is in the area?
Additional Remarks:	
Printed Name: CARLA LICALS	
Signature: Grula, Licalsi	
Please return to: Decoud Copil	doppel for 1000 Piones RA
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.
an ARCADIS company



September 12, 2006

Janet Joan Schwalm 310 Driveway St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property:		
	Well		
	Spring		
	City/County Water		
	Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes		
1	No		
	Unknown		
If Ye	es, what is it used for? (check all that apply)	)	
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Casing Size	ear Installed
Water Quality Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your pr Yes No Are you aware of any other drinking water well Yes No If yes, please list any known information:  Additional Remarks:	
Printed Name:	Date: 9-27-06
Signature: And Schwalm.  Please return to:	Title:
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Denali State Bank 119 Cushman St N Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is th	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes	P P -	g
X	No		
	Unknown		
If Ye	es, what is it used for? (check all that apply)	)	
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
70000	Livestock		

Well Information (to be completed if water	· ·				
Well Diameter	Year Installed				
Casing Size	_				
Well Depth					
Casing Depth	_				
Screen Location	_				
Driller Well Logs Available?					
Well Logs Available?					
Pump Type	-				
Water Quality	****				
Water Quality Has Quality Changed?	_ If Yes, How?				
Are there any streams/creeks located on your property?  Yes No					
Are you aware of any other drinking water wells in the area?  Yes  No					
If yes, please list any known information:					
Additional Remarks:					
Printed Name: Randy L. Weaver	Date: 9/21/06 Title: CFO				
Signature: Jandy J. Wa	Title: CFO				
Please return to:					
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com				



Mary E Fitzgerald Family Trust

September 12, 2006

348 Minnie St Fairbanks, Alaska 99701

Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, RE: Former Unocal Bulk Plant 306458 418 Illinois St, 410 Driveway St, 328 1/2 Illinois St. Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property:  Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for p Yes No Unknown	purpo	ses other than drinking water?
If Ye	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water Well Diameter	is from a well): Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Driller Well Logs Available?	
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your  Yes No	property?
Are you aware of any other drinking water we Yes No	ells in the area?
If yes, please list any known information:	
Additional Remarks:	
Printed Name: Many Fitzgerale	Date: 9 a.3 06
Printed Name: Many Fitzgerale Signature: Many & Fitzgerale	Date: 9/23/06  Title: Junes
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Janet Joan Schwalm 318 Driveway St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
If Ye	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Diameter	
Casing Size	
Well Depth	
Casing Depth	_
Screen Location	_
Driller Well Logs Available?	
Pump Type	
Water Quality	
Water Quality Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your p Yes No	property?
Are you aware of any other drinking water well Yes No	lls in the area?
If yes, please list any known information:	
Additional Remarks:	
Printed Name:	Date: 9-27-06
10 d la - 1200	
Signature: AND Signature: Please return to:	Title:
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102 Attn: Rebecca Andresen	email: randresen@bbl-inc.com



September 12, 2006

John Salzman 257 Charles St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	wee of drinking water on your property:  Well Spring City/County Water Unknown		
Is th	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water	,
	Year Installed
Casing Size	_
Well Depth	
Casing Depth	
Screen Location	_
Driller	
Driller Well Logs Available?	
Pump Type	-
Water Quality	
Water QualityHas Quality Changed?	If Yes, How?
Are there any streams/creeks located on your part of Yes No  Are you aware of any other drinking water we	
Yes No	nis in the area:
If yes, please list any known information:	
Additional Remarks:	
Printed Name: John & Salaman	Date: 24 Sipt 06
0. 1610	mu.
Please return to:	Title:
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Benevolent and Protective Order Of Elks Lodge #1551 1003 Pioneer Rd Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Sour	ce of drinking water on your property:  Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes		
X	No		
	Unknown		
If Ye	s, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
$\Box$	Domestic Bathing	Ħ	Other, explain:
Ħ	Domestic Washing		,
	Livestock		

AK WATER RESOURCES QUEST

Well Information (to be completed if water	is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	_
Screen Location	_
Driller	
Well Logs Available?	
Pump Type	
Water Quality	
Water QualityHas Quality Changed?	_ If Yes, How?
Are there any streams/creeks located on your part yes No	
Are you aware of any other drinking water we Yes No	lls in the area?
If yes, please list any known information:	
Additional Remarks:	
FIRS LODGE 155 Printed Name: Todd Kannas	Date: 9-27-06  Title: Seunetraly
	Dutc.
Signature:	Title: Sernetceling
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Wilbert J Courtney 249 Illinois St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Source	weil Spring City/County Water Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes No		
	Unknown		
If Ye	s, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if wat	ter is from a well):
Well Diameter	
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Driller Well Logs Available?	
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No	ur property?
Are you aware of any other drinking water Yes No	wells in the area?
If yes, please list any known information:	
Additional Remarks:	
	01-060
Printed Name: WITE GUETNEY	Date: 9./28/06
Signature: Wil Contray	Title: Co-owner
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com
Thank you for your time and assistance.	



September 12, 2006

Paul C Morgan 222 Slater St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	well Spring City/County Water Unknown		
Is th	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed it	f water is from a well):
Well Diameter	
Casing Size	
Well Depth	
Casing Depth	_
Screen Location	
Driller	
Driller Well Logs Available?	_
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located of Yes No  Are you aware of any other drinking wayes No  If yes, please list any known information	vater wells in the area?
Printed Name: Fauc Morey La	S Date: 9/27/06
Timod Italie.	Date.
Signature:	Title: Frozerty Currer
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Wilbert J Courtney 306 Illinois St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property:		
	Well		
	Spring		
X	City/County Water		
	Unknown		
	Unknown		
T 43			
Is the	ere a well on your property that is used for p	purpos	ses other than drinking water?
	Yes		
1	No		
	Unknown		
	Chanowii		
If Ye	s, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		· • • <u></u>
	Livestock		

Well Information (to be completed if water	r is from a well):
Well Diameter	
Casing Size	
Well Depth	
Casing Depth	
Screen Location	1
Driller	
Well Logs Available?	
Pump Type	
Water Quality	
Water Quality Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No	property?
Are you aware of any other drinking water w Yes No	ells in the area?
If was placed list any lenevus information.	
If yes, please list any known information:	
Additional Remarks:	
Printed Name: With Courtey Signature: Will Courtey	Date: 9/28/06
Signature: Wil Contrey	Title: OWLER
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Mary Katherine Johnson 322 Well St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

	ce of drinking water on your property:  Well Spring City/County Water Unknown  ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
If Ye	es, what is it used for? (check all that apply)  Domestic Drinking  Domestic Bathing  Domestic Washing  Livestock		Irrigation Other, explain:

Well Information (to be completed if water	r is from a well):		
Well Diameter	Year Installed		
Casing Size			
Well Depth			
Casing Depth	<u> </u>		
Screen Location			
Driller			
Well Logs Available?			
Pump Type			
Water Quality			
Has Quality Changed?	If Yes, How?		
Are there any streams/creeks located on your property?  Yes No Are you aware of any other drinking water wells in the area?  Yes No No If yes, please list any known information:			
Additional Remarks:			
Printed Name: Mary Katherine J	Shuson Date: 9-28-06		
Signature: Mary Karhering Sh	Title:		
Please return to:			
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com		





September 12, 2006

Gavora Incorporated 244 Illinois St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

_	Sour	Well Spring City/County Water Unknown		
	Is the	ere a well on your property that is used for yes No Unknown	purpo	ses other than drinking water?
	If Ye	s, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water	r is from a well):
Well Diameter	Year Installed
Casing Size	_
Well Depth	
Casing Depth	
Screen Location	
Driller	
Well Logs Available?	
Pump Type	
Water Quality	_
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your	property?
Yes	property.
No	
110	
Are you aware of any other drinking water w	rells in the area?
Yes	
No	
110	
If yes, please list any known information:	
if yes, please list any known information.	
	<del></del>
Additional Remarks:	
Additional Remarks.	
Printed Name Rupy GAVORA	Date: 9/27/2006
Printed Name.	Date: 9/27/2006  Title: (75N MGR.
Sinut and Silver	mid / - 1 McO
Signature:	Title: (7EN MGR.
71	O
Please return to:	
D1 1 1 D 1 0 X	DI (00.0) 10.7 70.7 10.7 7
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	
Thank you for your time and assistance.	



September 12, 2006

Gavora Incorporated 246 Illinois St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

 Source	ee of drinking water on your property: Well Spring City/County Water Unknown		
 Is the	re a well on your property that is used for p Yes No Unknown	purpos	ses other than drinking water?
If Yes	s, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water	er is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Well Logs Available?	
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on you  Yes No	
Are you aware of any other drinking water v  Yes  No	vells in the area?
If yes, please list any known information:	
Additional Remarks:	
Printed Name: Ruoy GAVORA	Date: 9/27/2006  Title: GEN MGR.
Signature:	Title: VEN MGR.
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Lawrence Russell 816 Betty St Fairbanks, Alaska 99701

RE:

Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source Source So	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for p	urpo	ses other than drinking water?
	Yes		
	No Unknown		
If Ye	s, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
Ш	Livestock		

AK WATER RESOURCES QUEST

7684-124-706

2300 Eastlake Avenue East • Suite 100 • Seattle, WA 98102
Tel (206) 325-5254 • Fax (206) 325-8218 • www.bbl-inc.com • Offices Nationwide

Well Information (to be completed if water Well Diameter			
Casing Size			
Well Depth	•		
Casing Depth			
Screen Location	une .		
Driller	-		
Driller Well Logs Available?			
Pump Type			
Water Quality			
Water Quality Has Quality Changed?	If Yes, How?		
Are there any streams/creeks located on your y Yes No No Yes No	oroperty?		
Are you aware of any other drinking water we Yes No	lls in the area?		
If yes, please list any known information:			
Additional Remarks:			
Printed Name: Laufernee Lus Signature:	Date: 10/106		
Signature:	Title: OWNOK		
Please return to:			
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017		
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218		
Seattle, Washington 98102 email: randresen@bbl-inc.com Attn: Rebecca Andresen			

BLASLAND, BOUCK & LEE, INC.

an ARCADIS company

Thank you for your time and assistance.

421-4897



September 12, 2006

Continental Van Lines 1223 Well St Fairbanks, Alaska 99701

RE:

Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	wee of drinking water on your property: Well Spring City/County Water Unknown		
Is th	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water	is from a well):
` •	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	_
Driller Well Logs Available?	
Well Logs Available?	
Pump Type	_
Water Quality	
Has Quality Changed?	_ If Yes, How?
Are there any streams/creeks located on your  Yes No	property?
Are you aware of any other drinking water we Yes No	ells in the area?
If yes, please list any known information:	
Additional Remarks:  Wh Do MOT DRINK THE WATE  SPRING ALASKA PROVIDE US	IR FROM THE YAP. WE HAVE WITH DRIVESUL WATER.
Printed Name: Ken Wyman	Date: 09-25-06
Signature:	Date: 09-25-06  Title: GENGRA MANAGER
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Alaska Properties LLC 409 Driveway St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

At the request of the Alaska Department of Environment and Conservation (ADEC), we are completing a water resources survey for properties located within 1,000-feet of the above-referenced facility. At your convenience, please fill in and sign the following short form and return in the self-addressed, stamped envelope that is provided, or by fax or email. If we do not receive this form by October 30, 2006, we will assume you do not have a private water source on your property. If you have questions about this survey, please feel free to contact Rebecca Andresen of BBL at (206) 325-5254 x 1017. Thank you for your cooperation.

Sour	ce of drinking water on your property:		
	Well		
	Spring		
1	City/County Water		
	Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes	•	3
	No		
	Unknown		
If Ye	es, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

AK WATER RESOURCES QUEST

2300 Eastlake Avenue East • Suite 100 • Seattle, WA 98102
Tel (206) 325-5254 • Fax (206) 325-8218 • www.bbl-inc.com • Offices Nationwide

Well Information (to be completed if water	is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	_
Casing Depth	
Screen Location	_
Driller	
Well Logs Available?	
Pump Type	
Water Quality	-
Water QualityHas Quality Changed?	If Yes. How?
Tido Quanty onlangua.	
Are there any streams/creeks located on your	property?
Yes	Property :
No No	
Are you aware of any other drinking water we	ells in the area?
Yes	
No No	
110	
If yes, please list any known information:	
if yes, please list any known information.	
Additional Remarks:	
Additional Remarks.	
	<del></del>
Printed Name: Susan M Ellison	Date: 9/2-10V
Printed Name Jusqu' Liles	Date: 9/25/00.  Title: Owner.
5 5 5	mid (S.
Signature: A.M. M. C. Coon	Title: Owner.
DI.	
Please return to:	
	D1 (00.6) 00.5 50.54 10.15
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	
Thank you for your time and assistance.	



September 12, 2006

Sourdough Fuel Inc 418 Illinois St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for p Yes No Unknown	purpo	ses other than drinking water?
If Ye	s, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water	r is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	· ·
Casing Depth	
Screen Location	
Driller	
Driller Well Logs Available?	
Pump Type	
Water Quality Has Quality Changed?	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No	
Are you aware of any other drinking water w Yes No	ells in the area?
If yes, please list any known information:	
	<u> </u>
Additional Remarks:	
	<del></del>
Printed Name: David Cieplik	Date: 9-25-06  Title: Plant Manager
Signature: David (replit	Title: Plant Manager
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Marvin L Raaum Revocable Trust 405 Slater St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sourc	ce of drinking water on your property:  Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes		
0	No		
	Unknown		
If Ye	s, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing	<u></u>	
	Livestock		

Well Information (to be completed if water	is from a well):
	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Driller Well Logs Available?	
Pump Type	_
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your  Yes No	property?
Are you aware of any other drinking water we Yes No	ells in the area?
If yes, please list any known information:	
Additional Remarks:	
Printed Name: Linda Oyley	Date: 9-24-80  Title: manager
Signature: Linea oxery	Title: manager
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Philip S Steeg 240 Minnie St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property:		
	Well		
	Spring		
	City/County Water		
	Unknown		
To 4h	one a small on many man out; that is used for		and add an distribution areas and
1s the	ere a well on your property that is used for	purpo	ses other than drinking water?
36.21	Yes		
	No		
	Unknown		
If Ye	es, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if water		
Well Diameter	Year Installed	
Casing Size	<u> </u>	
Well Depth		
Casing Depth		
Screen Location		
Driller		
Well Logs Available?		
Pump Type		
Water Quality	****	
Has Quality Changed?	If Yes, How?	
Are there any streams/creeks located on your property?  Yes No  Are you aware of any other drinking water wells in the area?  Yes No  If yes, please list any known information:		
Additional Remarks:		
Printed Name: Philip S. St.	Zg Date: 9/25/06	
Signature: Astronomy	Title: 9/25/06	
Please return to:		
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com	



September 12, 2006

Energy Technologies Inc 1318 Well St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	Ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
If Ye	es, what is it used for? (check all that apply)  Domestic Drinking  Domestic Bathing  Domestic Washing  Livestock		Irrigation Other, explain:

Well Information (to be completed if wa	ter is from a well):			
Well Diameter	Year Installed			
Casing Size				
Well Depth				
Casing Depth				
Screen Location				
Driller				
Driller Well Logs Available?				
Pump Type				
Water QualityHas Quality Changed?	**** ** 0			
Has Quality Changed?	If Yes, How?			
Are there any streams/creeks located on your Yes No	Are there any streams/creeks located on your property?  Yes			
Are you aware of any other drinking water wells in the area?  Yes  No				
If yes, please list any known information:				
Additional Remarks:				
Printed Name: Phil Logran	Date: 9.25-06			
Printed Name: Phil Long	L_ Title: PRASIDENT			
Please return to:				
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com			



September 12, 2006

J Lynn And Company 1317 Minnie St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water		
	Unknown		
Is the	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
If Ye	es, what is it used for? (check all that apply)	)	
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		<u> </u>
	Livestock		

Well Information (to be completed if water	
	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Driller Well Logs Available?	
Pump Type	_
Water Quality	
Water Quality Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No	property?
Are you aware of any other drinking water we Yes No	ells in the area?
If yes, please list any known information:	
Additional Remarks:	
Printed Name: Linda J Patt	Date: 9/25/06
Timed Name	Date. 17 11 97 0 8
Printed Name: Linda J Pett Signature: Hone I from	Title: Three -
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Ramona E M Oxendine 323 Ina St Fairbanks, Alaska 99701

RE:

Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is th	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes		
V	No		
	Unknown		
If Ye	es, what is it used for? (check all that apply)		T. C. W.
님	Domestic Drinking	님	Irrigation
님	Domestic Bathing		Other, explain:
님	Domestic Washing		
	Livestock		

Well Information (to be completed if water	r is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Well Logs Available?	
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No  Are you aware of any other drinking water w	
Yes No	ens in the area:
If yes, please list any known information:	
Additional Remarks:	
Rangua Oxendia	
Printed Name: MANUAL ACTION	Date: 7/25/06
Printed Name: RAMONA Oxendin Signature: Lamona Oxendin	ritle: Homeowner
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Robert Tyler 242 Ina St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes		
X.	No		
	Unknown		
If Ye	es, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if wate	r is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	† 1
Driller Well Logs Available?	MA
Well Logs Available?	·
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No	r property?
Are you aware of any other drinking water w Yes No	vells in the area?
If yes, please list any known information:	
Additional Remarks:  When I move 0  AND WATER SOUTH WAS	IN TO This ARRA The Cott
Printed Name: Robert A. TYLER	Date:
Signature: Robert a Tyley	Title:
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Anthony J Simko 303 Minnie St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property:		
	Well		
一	Spring		
<b>×</b>	City/County Water		
	Unknown		
	Chidown		
Is the	ere a well on your property that is used for p Yes No Unknown	purpo	ses other than drinking water?
If Ye	s, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		, ,
ΠĪ	Livestock		

Well Information (to be completed if wat	er is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	<del></del>
Well Logs Available?	
Pump Type	
Water Quality	<del></del>
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on you	or property?
Yes	~ p.opotoj i
No No	
Are you aware of any other drinking water	wells in the area?
Yes	
No No	
If yes, please list any known information:	
•	
Additional Remarks:	
Printed Name: Jony Simho	Date: 9-25-06
- Cong	Date: 9-25-06  Title: Mr.
Signature:	Title: Mr
Please return to:	
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	
	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	
Thank you for your time and assistance	
Thank you for your time and assistance.	



September 12, 2006

Barbara M Rich 305 Slough St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is th	ere a well on your property that is used for	purpo	ses other than drinking water?
Ц	Yes		
	No Links are a		
Ш	Unknown		
If Yo	es, what is it used for? (check all that apply	)	
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if water	is from a well):
Well Diameter	Year Installed
Casing Size	_
Well Depth	
Casing Depth	_
Screen Location	_
Driller	
Well Logs Available?	
Pump Type	-
Water Quality	
Has Quality Changed?	_ If Yes, How?
Are there any streams/creeks located on your y Yes No	property?
Are you aware of any other drinking water we Yes No	lls in the area?
If yes, please list any known information:	
Additional Remarks:	
Printed Name: LElang Ricl	Date: 9/25/06
Signature: Takul Emp	Title: Owner
Please return to:	
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	Ciliani. Tandresen (600)-inc.com
A tion. Acoooda / Midrosoff	



September 12, 2006

Charles Gray 311 Slater St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property:  Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
If Ye	s, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if water	is from a well):		
Well Diameter	Year Installed		
Casing Size	_		
well Depth			
Casing Depth	_		
Screen Location	_		
Driller			
Driller Well Logs Available?			
Pump Type			
Water Quality			
Water Quality Has Quality Changed?	_ If Yes, How?		
Are there any streams/creeks located on your property?  Yes No  Are you aware of any other drinking water wells in the area? Yes No  If yes, please list any known information:			
Additional Remarks:			
Printed Name: CHARLES GRAY Signature: Pharles L. Man	Date: 9-25-06  Title: 6WNER		
Please return to:			
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com		



September 12, 2006

Wendy R Stegner 320 Charles St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes		
	No		
Ш	Unknown		
If Ye	es, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if wa	ter is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Well Logs Available?	
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No	our property?
Are you aware of any other drinking water Yes No	wells in the area?
If yes, please list any known information:	
Additional Remarks:	
Printed Name: Signature: Please return to:	nev
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com





LAND MANAGEMENT

## WATER RESOURCES QUESTIONNAIRE

September 12, 2006

Fairbanks North Star Borough Land Management 807 PIONEER RD Fairbanks, Alaska 99701

RE:

Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815,

Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
	es, what is it used for? (check all that apply)  Domestic Drinking  Domestic Bathing  Domestic Washing  Livestock		Irrigation Other, explain:

Water Resources Questionnaire 807 PIONEER RD Page 2 of 2

Well Information (to be completed if wa	ter is from a well):		
Well Diameter			
Casing Size			
Well Depth			
Casing Depth			
Screen Location			
Driller			
DrillerWell Logs Available?			
Pump Type			
Water Quality			
Has Quality Changed?	If Yes, How?		
Are there any streams/creeks located on your Yes  No	our property?		
Are you aware of any other drinking water Yes No	wells in the area?		
If yes, please list any known information:			
Additional Remarks: THE TELATES TO LOCATED AT 1300	THE FNSB-OWNED FACILITY MINNIE ST., FAIRBANKS		
	Date: 9-76-00		
Signature: All Dell	Title: FACIUTIES DIRECTOR		
Please return to:			
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com		

BLASLAND, BOUCK & LEE, INC.

an ARCADIS company



September 12, 2006

Michael E Grahek 807 Pioneer Rd Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

	ce of drinking water on your property:  Well  Spring  City/County Water  Unknown  Wowe  ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes	purpo	oes other than arming water.
XI	No		
	Unknown		
<u>If</u> Ye	s, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if wa	,				
Well Diameter	Year Installed				
Casing Size					
Well Depth					
Casing Depth					
Screen Location	_				
Driller Well Logs Available?					
Well Logs Available?					
Pump Type	<del></del>				
Water Quality					
Water QualityHas Quality Changed?	If Yes, How?				
Are there any streams/creeks located on yo  Yes No	ur property?				
Are you aware of any other drinking water Yes No	wells in the area?				
If yes, please list any known information:					
Additional Remarks: THE BUILDING IS A CARAGE	- NOT A REGIDENCE				
	EK Date: 23 SEP 2006				
Signature: Meela & Grahel	Title: OWNER				
Please return to:					
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com				



September 12, 2006

Marlys Ann Powers 313 Minnie St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 1/2 Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for page 1995. Yes No Unknown	purpo	ses other than drinking water?
If Ye	s, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Casing Size Well Depth Casing Depth Screen Location Driller	Year Installed			
Well Logs Available?				
Pump Type Water Quality				
Has Quality Changed?	If Yes, How?			
Are there any streams/creeks located on your property?  Yes No  Are you aware of any other drinking water wells in the area?				
Yes No				
If yes, please list any known information:				
Additional Remarks:				
Printed Name: Markys A. Power	Date: 9-25-0,6			
Signature: Marlo A. Powers	Title:			
Please return to:				
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com			



September 12, 2006

Fairbanks Agape Mission Church 324 Minnie St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

	ce of drinking water on your property:  Well Spring City/County Water Unknown  ere a well on your property that is used for y Yes No Unknown	purpo	ses other than drinking water?
If Ye	es, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if water	is from a well):
	Year Installed
Casing Size	_
Well Depth	
Casing Depth	_
Screen Location	_
Driller	
Well Logs Available?	
Pump Type	-
Water Quality Has Quality Changed?	YCAY YY O
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on your particle. Yes No	property?
Are you aware of any other drinking water we Yes No	lls in the area?
If yes, please list any known information:	
Additional Remarks:	
Printed Name: Song Hwam Kims	Date: 9/23/06  Title: PASTOR
Signature:	Title: PASTOR
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com



September 12, 2006

Fairbanks Agape Mission Church 319 Minnie St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458

418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes		5
X	No		
	Unknown		
If Ye	s, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if water	is from a well):
` •	Year Installed
Casing Size	
Well Depth	
Casing Depth	_
Screen Location	_
Driller	
Driller Well Logs Available?	
Pump Type	-
Water Quality	
Has Quality Changed?	_ If Yes, How?
Are there any streams/creeks located on your p  Yes  No	property?
Are you aware of any other drinking water we Yes No	lls in the area?
If yes, please list any known information:	
Additional Remarks:	
Printed Name: Sont Hwom Kins Signature:	Date: 9/23/66  Title: PASTOR
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com

BLASLAND, BOUCK & LEE, INC.

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Barbara E Page 319 Slater St

September 12, 2006

Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	well Spring City/County Water Unknown		
Is th	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
	es, what is it used for? (check all that apply)  Domestic Drinking  Domestic Bathing  Domestic Washing  Livestock		Irrigation Other, explain:

Well Information (to be completed if water	is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	_
Screen Location	
Driller	
Driller Well Logs Available?	
Pump Type	_
Water Quality	
Water QualityHas Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No Are you aware of any other drinking water we Yes No If yes, please list any known information:  Additional Remarks:	
Printed Name: Barbara E. Pa	ge Date: 10/23/06
Signature: Barbara E. Page	ZTitle:
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com

BLASLAND, BOUCK & LEE, INC.
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September 12, 2006

Clark A Courtney 253 Illinois St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.

Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
If Ye	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Diameter	· · · · · · · · · · · · · · · · · · ·
Well Diameter	Teal histaried
Casing Size	_
Well Depth	
Casing Depth	
Screen Location	
Driller Well Logs Available?	
Well Logs Available?	
Pump Type	_
Water Quality	
Water QualityHas Quality Changed?	If Yes, How?
Are there any streams/creeks located on your Yes No	property?
Are you aware of any other drinking water w Yes No	rells in the area?
If yes, please list any known information:	
	<u> </u>
Additional Remarks:	
Auditional Remarks.	
	<del></del>
Printed Name: Clark A. Court	Title: Mr.
Signature: Claud A Cours	Title: Mr.
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com

BLASLAND, BOUCK & LEE, INC.
an ARCADIS company



September 12, 2006

Ringstad Mark Family Trust 502 Monroe St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	weil Spring City/County Water Unknown		
Is the	ere a well on your property that is used for	purpo	ses other than drinking water?
	Yes		
A	No Unknown		
	Clikilowii		
If Ye	es, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if	water is from a well):
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Driller Well Logs Available?	_
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on Yes No	your property?
Are you aware of any other drinking wa  Yes  No	ter wells in the area?
If yes, please list any known information	n:
Additional Remarks:	
-	MADY PINGSTAD CHMILL TO LECT
Printed Name: James R. RING	STAD A.I.F. FOR MARK RINGSTAD FAMILY TRUST Date: 10/25/2006
Signature: McGMcFlad	Title:
Please return to:	
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	

Thank you for your time and assistance.

BLASLAND, BOUCK & LEE, INC.
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September 12, 2006

Alaska Distribution Company 1200 Well St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sour	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for Yes No Unknown	purpo	ses other than drinking water?
If Ye	es, what is it used for? (check all that apply) Domestic Drinking Domestic Bathing Domestic Washing Livestock		Irrigation Other, explain:

Well Information (to be completed if wa	
Well Diameter	Year Installed
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Well Logs Available?	
Pump Type	
Water Quality	
Water QualityHas Quality Changed?	If Yes, How?
Are there any streams/creeks located on y  Yes No	our property?
Are you aware of any other drinking wate Yes No	r wells in the area?
If yes, please list any known information:	
Additional Remarks:	
<del></del>	
Printed Name: Donald Loe	Date: 11-1-06
Signature:	Title:
Please return to:	
Blasland, Bouck & Lee, Inc.	Phone: (206) 325-5254 x 1017
2300 Eastlake Avenue, Suite 100	Facsimile: (206) 325-8218
Seattle, Washington 98102	email: randresen@bbl-inc.com
Attn: Rebecca Andresen	



September 12, 2006

Alaska Distribution Company 1106 Well St Fairbanks, Alaska 99701

RE: Former Chevron Bulk Plant 100-430, Former Texaco Bulk Plant 21-1815, Former Unocal Bulk Plant 306458
418 Illinois St, 410 Driveway St, 328 ½ Illinois St.
Fairbanks, Alaska 99701

Dear Sir or Madam:

Sourc	ce of drinking water on your property: Well Spring City/County Water Unknown		
Is the	ere a well on your property that is used for Yes	purpo	ses other than drinking water?
4	No Unknown		
<u>If Ye</u>	s, what is it used for? (check all that apply)		
	Domestic Drinking		Irrigation
	Domestic Bathing		Other, explain:
	Domestic Washing		
	Livestock		

Well Information (to be completed if	water is from a well):
Well Diameter	
Casing Size	
Well Depth	
Casing Depth	
Screen Location	
Driller	
Well Logs Available?	
Pump Type	
Water Quality	
Has Quality Changed?	If Yes, How?
Are there any streams/creeks located on Yes No	your property?
Are you aware of any other drinking wa Yes No	ter wells in the area?
If yes, please list any known information	n:
Additional Remarks:	
Printed Name: DONING LOG	Date: 11-1-06
Signature:	Title:
Please return to:	
Blasland, Bouck & Lee, Inc. 2300 Eastlake Avenue, Suite 100 Seattle, Washington 98102 Attn: Rebecca Andresen	Phone: (206) 325-5254 x 1017 Facsimile: (206) 325-8218 email: randresen@bbl-inc.com

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# Attachment E

# **Conceptual Site Model**



## **HUMAN HEALTH CONCEPTUAL SITE MODEL**

Site:		Follow the directions below. <u>Do no</u> or land use controls when describ				ering	1		
Completed By:  Date Completed:  (1)  Check the media that could be directly affected by the release.  Media  Transport Mechanisms  Direct release to surface soil  Surface Soil Migration or leaching to groundwater (0-2 ft bgs)  (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.  Transport Mechanisms  Check soil  Migration or leaching to subsurface check groundwater check groundwater check air		(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.  Exposure Pathways	ead rec bot	contify the rech exposure industrial working the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the current of the cu	eceptor re path " for fut and fut t 8. F	way: Ei ture rec	nter "C ceptors eptors. Rec	e for c or "C oepto	urrent E/F" for
Runoff or erosion	soil	ncidental Soil Ingestion  Dermal Absorption of Contaminants from Soil							
Subsurface   Migration to groundwater   Check groundwater   Check groundwater   Check groundwater   Check groundwater   Check groundwater   Check air   Check groundwater   Check grou	groundwater	ngestion of Groundwater  Dermal Absorption of Contaminants in Groundwater  nhalation of Volatile Compounds in Tap Water							
Ground- water    Direct release to groundwater   Check groundwater	air	nhalation of Outdoor Air nhalation of Indoor Air nhalation of Fugitive Dust							
Surface Water  Direct release to surface water  Check surface water  Check surface water  Check air  Check sediment  Check sediment  Check biota  Other (list):	surface water	ngestion of Surface Water  Dermal Absorption of Contaminants in Surface Water  nhalation 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):		Direct Contact with Sediment Ingestion of Wild Foods							

## Human Health Conceptual Site Model Scoping Form

Site Name:			
File Number:			
Completed by:			
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:			
<b>Sources</b> (check potential sources at the site)			
USTs	☐ Vehicles		
☐ ASTs	Landfills		
Dispensers/fuel loading racks	Transformers		
☐ Drums	Other:		
Release Mechanisms (check potential release mechanisms)	hanisms at the site)		
☐ Spills	☐ Direct discharge		
Leaks	☐ Burning		
	Other:		
Impacted Media (check potentially-impacted media	a at the site)		
Surface soil (0-2 feet bgs*)	Groundwater		
Subsurface Soil (>2 feet bgs)	Surface water		
☐ Air	Other:		
<b>Receptors</b> (check receptors that could be affected by contamination at the site)			
Residents (adult or child)	☐ Site visitor		
Commercial or industrial worker	Trespasser		
Construction worker	Recreational user		
☐ Subsistence harvester (i.e., gathers wild foods)	Farmer		
☐ Subsistence consumer (i.e., eats wild foods)	Other:		

1 3/16/06

^{*} bgs – below ground surface

2.	<b>Exposure Pathways:</b> (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 a	and 15 feet bgs?	
		Do people use the site or is there a chance future?	they will use the site in the	
		If both boxes are checked, label this pathw	oth boxes are checked, label this pathway 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?		
		<u> •</u>	l contaminants permeate the skin? (Contaminants listed below, ne groups listed below, should be evaluated for dermal	
		Arsenic Cadmium Chlordane 2,4-dichlorophenoxyacetic acid Dioxins DDT	Lindane PAHs Pentachlorophenol PCBs SVOCs	
		If all of the boxes are checked, label this p	of the boxes are checked, label this pathway 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:		

2 3/16/06

## **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:* **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:* **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, or 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:*

3/16/06

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 waterquality or drinking-water standards are not being applied as cleanup levels. Examples of conditions that may warrant further investigation include:

o Climate permits recreational use of waters for swimming,

Check the box if further evaluation of this pathway is needed:

o Climate permits exposure to groundwater during activities, such as construction,

without protective clothing, or
o Groundwater or surface water is used for household purposes.
Check the box if further evaluation of this pathway is needed:
Comments:
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:  O The contaminated water is used for household purposes such as showering, laundering, and dish washing, and O 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:
Inhalation of Fugitive Dust
<ul> <li>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:</li> <li>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.</li> <li>Dust particles are less than 10 micrometers. This size can be inhaled and would be of concern for determining if this pathway is complete.</li> </ul>

3/16/06

Comments:
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 <b>ingest</b> sediment from normal hand-to-mouth activities. In addition, <b>dermal absorption of contaminants</b> 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:

**4. Other Comments** (Provide other comments as necessary to support the information provided in this form.)

5 3/16/06

#### APPENDIX A

#### **BIOACCUMULATIVE COMPOUNDS**

#### Table A-1: List of Compounds of Potential Concern for Bioaccumulation

Organic compounds are identified as bioaccumulative if they have a BCF equal to or greater than 1,000 or a log  $K_{ow}$  greater than 3.5. Inorganic compounds are identified as bioaccumulative if they are listed as such by EPA (2000). Those compounds in Table X of 18 AAC 75.345 that are bioaccumulative, based on the definition above, are listed below.

Aldrin	DDT	Lead
Arsenic	Dibenzo(a,h)anthracene	Mercury
Benzo(a)anthracene	Dieldrin	Methoxychlor
Benzo(a)pyrene	Dioxin	Nickel
Benzo(b)fluoranthene	Endrin	PCBs
Benzo(k)fluoranthene	Fluoranthene	
Cadmium	Heptachlor	Pyrene
Chlordane	Heptachlor epoxide	Selenium
Chrysene	Hexachlorobenzene	Silver
Copper	Hexachlorocyclopentadiene	Toxaphene
DDD	Indeno(1,2,3-c,d)pyrene	Zinc
DDE		

Because BCF values can relatively easily be measured or estimated, the BCF is frequently used to determine the potential for a chemical to bioaccumulate. A compound with a BCF greater than 1,000 is considered to bioaccumulate in tissue (EPA 2004b).

For inorganic compounds, the BCF approach has not been shown to be effective in estimating the compound's ability to bioaccumulate. Information available, either through scientific literature or site-specific data, regarding the bioaccumulative potential of an inorganic site contaminant should be used to determine if the pathway is complete.

The list was developed by including organic compounds that either have a BCF equal to or greater than 1,000 or a log K_{ow} greater than 3.5 and inorganic compounds that are listed by the United States Environmental Protection Agency (EPA) as being bioaccumulative (EPA 2000). The BCF can also be estimated from a chemical's physical and chemical properties. A chemical's octanol-water partitioning coefficient (K_{ow}) along with defined regression equations can be used to estimate the BCF. EPA's Persistent, Bioaccumulative, and Toxic (PBT) Profiler (EPA 2004) can be used to estimate the BCF using the K_{ow} and linear regressions presented by Meylan et al. (1996). The PBT Profiler is located at http://www.pbtprofiler.net/. For compounds not found in the PBT Profiler, DEC recommends using a log K_{ow} greater than 3.5 to determine if a compound is bioaccumulative.

#### APPENDIX B

#### **VOLATILE COMPOUNDS**

#### Table B-1: List of Volatile Compounds of Potential Concern

Common volatile contaminants of concern at contaminated sites. A chemical is defined as volatile if the Henry's Law constant is  $1 \times 10^{-5}$  atm-m³/mol or greater and the molecular weight less than 200 g/mole (g/mole; EPA 2004a). Those compounds in Table X of 18 AAC 75.345 that are volatile, based on the definition above, are listed below.

Acenaphthene	1,4-dichlorobenzene	Pyrene
Acetone	1,1-dichloroethane	Styrene
Anthracene	1,2-dichloroethane	1,1,2,2-tetrachloroethane
Benzene	1,1-dichloroethylene	Tetrachloroethylene
Bis(2-chlorethyl)ether	Cis-1,2-dichloroethylene	Toluene
Bromodichloromethane	Trans-1,2-dichloroethylene	1,2,4-trichlorobenzene
Carbon disulfide	1,2-dichloropropane	1,1,1-trichloroethane
Carbon tetrachloride	1,3-dichloropropane	1,1,2-trichloroethane
Chlorobenzene	Ethylbenzene	Trichloroethylene
Chlorodibromomethane	Fluorene	Vinyl acetate
Chloroform	Methyl bromide	Vinyl chloride
2-chlorophenol	Methylene chloride	Xylenes
Cyanide	Naphthalene	GRO
1,2-dichlorobenzene	Nitrobenzene	DRO

### APPENDIX C

#### COMPOUNDS OF CONCERN FOR VAPOR MIGRATION

#### Table C-1: List of Compounds of Potential Concern for the Vapor Migration

A chemical is considered sufficiently toxic if the vapor concentration of the pure component poses an incremental lifetime cancer risk greater than 10-6 or a non-cancer hazard index greater than 1. A chemical is considered sufficiently volatile if it's Henry's Law constant is 1 x 10⁻⁵ atm-m³/mol or greater

is considered sufficiently volatile if it's Henry's Law constant is 1 x 10 ⁻⁵ atm-m ³ /mol or greater.			
Acenaphthene	Dibenzofuran	Hexachlorobenzene	
Acetaldehyde	1,2-Dibromo-3-chloropropane	Hexachlorocyclopentadiene	
Acetone	1,2-Dibromoethane (EDB)	Hexachloroethane	
Acetonitrile	1,3-Dichlorobenzene	Hexane	
Acetophenone	1,2-Dichlorobenzene	Hydrogen cyanide	
Acrolein	1,4-Dichlorobenzene	Isobutanol	
Acrylonitrile	2-Nitropropane	Mercury (elemental)	
Aldrin	N-Nitroso-di-n-butylamine	Methacrylonitrile	
alpha-HCH (alpha-BHC)	n-Propylbenzene	Methoxychlor	
Benzaldehyde	o-Nitrotoluene	Methyl acetate	
Benzene	o-Xylene	Methyl acrylate	
Benzo(b)fluoranthene	p-Xylene	Methyl bromide	
Benzylchloride	Pyrene	Methyl chloride chloromethane)	
beta-Chloronaphthalene	sec-Butylbenzene	Methylcyclohexane	
Biphenyl	Styrene	Methylene bromide	
Bis(2-chloroethyl)ether	tert-Butylbenzene	Methylene chloride	
Bis(2-chloroisopropyl)ether	1,1,1,2-Tetrachloroethane	Methylethylketone (2-butanone)	
Bis(chloromethyl)ether	1,1,2,2-Tetrachloroethane	Methylisobutylketone	
Bromodichloromethane	Tetrachloroethylene	Methylmethacrylate	
Bromoform	Dichlorodifluoromethane	2-Methylnaphthalene	
1,3-Butadiene	1,1-Dichloroethane	MTBE	
Carbon disulfide	1,2-Dichloroethane	m-Xylene	
Carbon tetrachloride	1,1-Dichloroethylene	Naphthalene	
Chlordane	1,2-Dichloropropane	n-Butylbenzene	
2-Chloro-1,3-butadiene	1,3-Dichloropropene	Nitrobenzene	
(chloroprene)			
Chlorobenzene	Dieldrin	Toluene	
1-Chlorobutane	Endosulfan	trans-1,2-Dichloroethylene	
Chlorodibromomethane	Epichlorohydrin	1,1,2-Trichloro-1,2,2-	
		trifluoroethane	
Chlorodifluoromethane	Ethyl ether	1,2,4-Trichlorobenzene	
Chloroethane (ethyl	Ethylacetate	1,1,2-Trichloroethane	
chloride)			
Chloroform	Ethylbenzene	1,1,1-Trichloroethane	
2-Chlorophenol	Ethylene oxide	Trichloroethylene	
2-Chloropropane	Ethylmethacrylate	Trichlorofluoromethane	
Chrysene	Fluorene	1,2,3-Trichloropropane	
cis-1,2-Dichloroethylene	Furan	1,2,4-Trimethylbenzene	
Crotonaldehyde (2-butenal)	Gamma-HCH (Lindane)	1,3,5-Trimethylbenzene	
Cumene	Heptachlor	Vinyl acetate	
DDE	Hexachloro-1,3-butadiene	Vinyl chloride (chloroethene)	

Source: EPA 2002.

Guidance on Developing Conceptual Site Models

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