



 an ARCADIS company

*Transmitted Via UPS*

June 8, 2006

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

**Re: First Quarter 2006 Groundwater Monitoring Report  
Former Texaco Service Station 21-1081 (University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska  
BBLES Project # 44673  
ADEC #2285**

Dear Ms. Williams:

On behalf of Chevron Environmental Management Company (Chevron), BBL Environmental Services, Inc. (BBLES), an ARCADIS company, is submitting the enclosed first quarter 2006 groundwater monitoring report for former Texaco Service 21-1081 (the site) located at 4103 Geist Road in Fairbanks, Alaska. This monitoring event included quarterly, semi-annual, and annual sampling. OASIS Environmental, Inc. conducted the groundwater monitoring and prepared the enclosed report.

BBLES reviewed the current groundwater sampling schedule and dissolved constituent trends in groundwater monitoring wells. Dissolved concentrations of gasoline range organics (GRO), diesel range organics (DRO), and benzene, toluene, ethylbenzene, and xylenes (BTEX), are stable in wells G-1R, MW-301D, MW-301S, MW-302D, MW-302S, and are less than Alaska Department of Environmental Conservation (ADEC) Groundwater Cleanup Levels, with exception of benzene in G-1R. Dissolved concentrations of GRO, DRO, and BTEX have not been detected in well MW-211 since 2002. Based on these observations, BBLES recommends revising the groundwater sampling schedule as follows:

- Sample wells G-1R, MW-301D, MW-301S, MW-302D, MW-302S semi-annually, and
- Sample well MW-211 annually.

Wells MW-306 and MW-307 are located on the post office property (cross gradient) and are not included in the current sampling plan. Due to high concentrations of GRO, DRO, and BTEX in G-5, which is also located on the post office property, BBLES recommends these wells be added to the sampling plan, if they can be located.

Groundwater monitoring wells MW-308D, MW-308S, MW-309D, MW-309S, MW-214, MW-208, MW-209, MW-210 are not included in the current sampling plan. BBLES recommends abandonment of these wells. Groundwater monitoring well G-6 is not included in the current sampling plan; however, this well is upgradient of the site and should be maintained.

The table below reflects the recommended (revised) groundwater sampling schedule:

Well	Quarterly	Semi-annually	Annual
GW-1B	X		
GW-2			X
G-1R		X	
G-2			X
G-4	X		
G-5	X		
G-6	Removed from monitoring/sampling plan (June 2001)		
G-7	X		
MW-211			X
MW-301D		X	
MW-301S		X	
MW-302D		X	
MW-302S		X	
MW-303S			X
MW-304D	X		
MW-304S			X
MW-305			X
Notes: (1) Semi-annual sampling is performed in March/September (2) Annual sampling is performed in March			

Attached you will find one bound copy of the report. A PDF file of the complete document and an electronic copy of the laboratory deliverables will be emailed to you. If you have any questions or require additional information, please contact BBLES at (206) 325-5254 extension 1017.

Sincerely,

**BBL ENVIRONMENTAL SERVICES, INC.**



Barbara Orchard  
Project Engineer in Training



Rebecca K. Andresen  
Senior Geologist I

Enclosure

cc: Stacie Hartung-Frerichs, Chevron Environmental Management Company, San Ramon, California  
Bruce Anthony, Holiday Companies, Bloomington, Minnesota



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## **Quarterly Groundwater Monitoring Report First Quarter 2006**

**Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska**

294-001-6-2

Prepared for

Chevron Environmental Management Company

Prepared by

OASIS Environmental, Inc.  
250 Cushman St., Suite 4G  
Fairbanks, Alaska 99701

May 23, 2006

A handwritten signature in blue ink, appearing to read "Julie Ahern".

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Julie Ahern  
Junior Scientist (OASIS Environmental, Inc.)

Date: May 23, 2006  
Quarter: 1st Quarter 2006

## FORMER TEXACO QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 21-1081 Address: 4103 Geist Road, Fairbanks, Alaska (Figure 1)  
CHEVRON Project Manager: Stacie Hartung-Frerichs  
Consulting Co./Contact Person: Blasland, Bouck & Lee, Inc. (BBL) / Rebecca Andresen  
Consultant Project No.: 44673  
Primary Agency/Regulatory ID No.: Alaska Department of Environmental Conservation  
Attention: Deborah Williams

### WORK PERFORMED THIS QUARTER (First Quarter – 2006):

1. Conducted quarterly groundwater monitoring and sampling.
2. Prepared and submitted quarterly groundwater monitoring report.
3. Performed monthly sampling of the University of Alaska Fairbanks (UAF) water treatment system.

### WORK PROPOSED FOR NEXT QUARTER (Second Quarter – 2006):

1. Conduct quarterly groundwater monitoring and sampling.
2. Prepare and submit quarterly groundwater monitoring report.
3. Perform monthly sampling of the UAF water treatment system.

### QUARTERLY RESULTS SUMMARY

Current Phase of Project:	<u>Remediation and monitored natural attenuation</u>
Frequency of Groundwater Sampling:	<u>Quarterly</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present Onsite:	<u>No</u>
FP Recovered this Quarter:	<u>NA</u>
Cumulative FP Recovered to Date:	<u>NA</u>
Current Remediation Techniques:	<u>NA</u>
Approximate Depth to Groundwater:	<u>14.8 to 17.5 feet below ground surface*</u>
Groundwater Gradient:	<u>North-Northwest @ 0.0007 ft/ft.</u>

\* Depth to groundwater is based on the approximate distance between the ground surface and the static water level in each well.

## DISCUSSION:

On March 29 and 30, 2006, OASIS Environmental (OASIS) of Fairbanks, Alaska, conducted the first quarterly groundwater monitoring and sampling event of 2006 at 4103 Geist Road (Figure 1). Thirteen groundwater monitoring wells and two municipal production wells were sampled during this event (Figure 2). Duplicate samples were collected from municipal well GW-1B and monitoring well G-1R for quality assurance/quality control (QA/QC) purposes. Refer to Table 1 for well sampling frequency. Monitoring well G-4 was scheduled for sampling but was frozen near ground surface, and sampling was not possible. During the first quarter, groundwater flow was towards the north-northwest at a gradient of approximately 0.0007 ft/ft (Figure 2). This gradient is consistent with the historical flow direction and magnitude. Note that the gradient is an estimate, as many of the water-level measurements appeared to be in error (as shown in Figure 2). These errors are likely due to outdated measuring-point elevations. Seasonal frost and discontinuous permafrost have likely changed the elevation of many of the well casings at this site since they were last surveyed prior to 2000. A resurvey is recommended in order to obtain more accurate water-table elevation data at this site.

Table 2 presents sample concentrations of petroleum-related compounds. Groundwater samples were analyzed for gasoline range organics (GRO) by Alaska Method 101, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B. Groundwater samples collected from this site have been analyzed for these analytes throughout the course of the monitoring program. Figure 3 displays the concentrations of these analytes in each groundwater sample. Groundwater sample concentrations of diesel-range organics (DRO) and residual-range organics (RRO) are also included in Table 2. As described below, samples have been analyzed for DRO and RRO in the past five quarters; during this event, only samples from wells G-5 and G-7 were analyzed for these compounds.

GRO was detected in eleven of the fifteen samples at concentrations ranging from 10 micrograms per liter ( $\mu\text{g/l}$ ) in the samples from MW-301S and MW-303S to 50,000  $\mu\text{g/l}$  in the sample from G-5. Benzene was detected in eight of the fifteen samples at concentrations ranging from 3.3  $\mu\text{g/l}$  in the sample from MW-301D to 370  $\mu\text{g/l}$  in the sample from G-7. Toluene was detected in three of the fifteen samples at concentrations ranging from 0.8  $\mu\text{g/l}$  in the sample from G-1R to 2,200  $\mu\text{g/l}$  in the sample from G-5. Ethylbenzene was detected in three of the fifteen samples at concentrations ranging from 56  $\mu\text{g/l}$  in the sample from G-1R to 1,800  $\mu\text{g/l}$  in the sample from G-5. Total xylenes were detected in three of the fifteen samples at concentrations ranging from 5.7  $\mu\text{g/l}$  in the sample from G-1R to 9,900  $\mu\text{g/l}$  in the sample from G-5.

In addition to the above analytes, the Alaska Department of Environmental Conservation (ADEC) recently requested screening for selected Contaminants of Potential Concern (COPCs). The COPCs include Resource Conservation and Recovery Act (RCRA) metals, DRO, RRO, polycyclic aromatic hydrocarbons (PAHs), and a limited suite of volatile organic compounds (VOCs). Tables 3 and 4 provide concentrations of the COPC compounds except for DRO and RRO (Table 2). Table 5 lists the requested COPCs by method. This sampling event marks the second time that samples were analyzed for MtBE and 1,1-dichloroethane, two of the selected VOCs. This event is the third in which samples were analyzed for PAHs. DRO and RCRA metals were analyzed in the past five quarterly events. As of December 2005, COPC screening has been discontinued except at the two hottest wells, with the 'hottest' meaning the wells with the highest DRO sample concentrations. The two hottest wells at this site are G-5 and G-7. Samples from these two wells were to be analyzed for all COPCs at least twice. If a COPC has already been analyzed twice and the sample results are below the ADEC 18 AAC 75 Groundwater Cleanup Level, the compound was discontinued from the sampling program. Therefore, any COPC that is currently included in the sampling program has either been sampled less than twice, or the sample concentrations to date have been above 211081 1st Quarter 2006 Report

the compound's GCL. During this event, the COPCs analyzed in the sample well G-5 included DRO, MtBE, EDB, PAHs, and lead. The COPCs analyzed in the sample from well G-7 included DRO, MtBE, EDB, and PAHs.

The groundwater sample collected from well G-5 was analyzed for lead using EPA Method 6010. Lead was detected in the sample at a concentration of 70.5 µg/l. This concentration exceeded GCL of 15 µg/l.

Groundwater samples collected from wells G-5 and G-7 were analyzed for 1,1-dichloroethane (1,1-DCA) using EPA Method 8260B, and for MtBE using EPA Method 8021B. The compound 1,1-DCA was not detected above the method reporting limit in the groundwater samples from wells G-5 or G-7. Similarly, MtBE was not detected in the groundwater sample from well G-5 or G-7. The remaining thirteen samples were also analyzed for MtBE, and none had an MtBE concentration above the reporting limit (2.5 µg/l). Although the reporting limit was elevated in a few of the samples (namely G-1R, G-5, and G-7), it is unlikely that MtBE was present in any of the samples.

Groundwater samples collected from G-5 and G-7 were analyzed for 1, 2-dibromoethane (EDB) using EPA Method 8011. EDB was detected in the samples at concentrations of 0.95 µg/l in the sample from G-5 and 1.1 µg/l in the sample from G-7. Both of these concentrations exceeded the GCL of 0.05 µg/l.

Groundwater samples from G-5 and G-7 were analyzed for DRO using AK 102 and for PAHs using EPA Method 8270. DRO was detected at concentrations of 6,700 µg/l in the sample from G-5 and 59,000 µg/l in the sample from G-7. Naphthalene was detected at concentrations of 130 µg/l in the groundwater sample from well G-5 and 190 µg/l in the groundwater sample from well G-7. Phenanthrene was detected in the groundwater sample from well G-5 at a concentration of 1 µg/l.

Analytical results from the monthly UAF water treatment system sampling are summarized in Table 6. Field and laboratory procedures are summarized in Attachment 1. Groundwater field data sheets are included in Attachment 2. Laboratory analytical reports and chain-of-custody documentation are presented in Attachment 3.

## **ATTACHMENTS:**

- Table 1 – Groundwater Sampling Schedule
- Table 2 – Groundwater Elevation and POL Analytical Data
- Table 3 – Groundwater VOC and RCRA Metals Analytical Data
- Table 4 – Groundwater PAH Analytical Data
- Table 5 – ADEC-Requested COPC Analytes
- Table 6 – UAF Water Treatment System Analytical Data
- Figure 1 – Site Location Map
- Figure 2 – Site Plan With Groundwater Elevations and Contours, March 29, 2006
- Figure 3 – Site Plan With Chemical Concentration Data, March 29-30, 2006
- Attachment 1 - Field and Laboratory Procedures
- Attachment 2 - Field Data Sheets
- Attachment 3 - Laboratory Analytical Report: Quarterly Sampling Results
- Attachment 4 - Laboratory Analytical Reports: Monthly UAF Sampling Results (January-March)

## **TABLES**

**Table 1**  
**Groundwater Sampling Schedule**  
**(Effective June 2001)**  
**Former Texaco 21-1081**  
**4103 Geist Road, Fairbanks, Alaska**

Well Identification	Quarterly	Semi-Annual	Annual
GW-1B	X		
GW-2			X
G-1R	X		
G-2			X
G-4	X		
G-5	X		
G-6	Removed from monitoring/sampling plan (June 2001)		
G-7	X		
MW-211		X	
MW-301D	X		
MW-301S	X		
MW-302D	X		
MW-302S	X		
MW-303S			X
MW-304D	X		
MW-304S			X
MW-305			X
MW-308S	Removed from monitoring/sampling plan (June 2001)		
MW-309S	Removed from monitoring/sampling plan (June 2001)		
Notes:			
(1) Semi-annual sampling to be performed in March and September.			
(2) Annual sampling to performed in March.			



**TABLE 2**  
**Groundwater Elevation and POL Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/L)	DRO (µg/L)	RRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
State GCL:					1,300	1,500	1,100	5.0	2.0	700	10,000
G-1R	03/28/00	430.69	15.37	415.32	8,050	--	--	325	97.8	980	1,330
	03/28/00 <sup>D</sup>	430.69	--	--	8,370	--	--	330	108	993	1,380
	06/27/00	430.69	12.07	418.62	3,690	--	--	113	<5.21	254	333
	06/27/00 <sup>D</sup>	430.69	--	--	2,780	--	--	101	<5.36	220	293
	09/26/00	430.69	11.09	419.60	2,010	--	--	46.5	6.52	181	213
	09/26/00 <sup>D</sup>	430.69	--	--	2,020	--	--	52.6	6.74	193	223
	12/19/00	430.69	13.59	417.10	766	--	--	34.0	<0.930	63.2	62.6
	12/19/00 <sup>D</sup>	430.69	--	--	871	--	--	38.4	<0.970	72.8	70.4
	03/28/01	430.69	14.51	416.18	2,510	--	--	92.2	<5.00	274	271
	03/28/01 <sup>D</sup>	430.69	--	--	2,330	--	--	91.6	<5.00	270	272
	06/27/01	430.69	12.96	417.73	3,220	--	--	27.7	4.34	255	418
	06/27/01 <sup>D</sup>	430.69	--	--	3,990	--	--	81.6	<5.00	266	434
	09/19/01	430.69	12.03	418.66	278	--	--	13.7	1.08	14.8	20.1
	09/19/01 <sup>D</sup>	430.69	--	--	188	--	--	9.11	<0.500	9.59	13.0
	12/12/01	430.69	14.32	416.37	722	--	--	45.8	0.738	77.8	18.6
	12/12/01 <sup>D</sup>	430.69	--	--	893	--	--	47	0.939	79.7	18.9
	03/27/02	430.69	14.62	416.07	3,650	--	--	124	8.75	320	336
	03/27/02 <sup>D</sup>	430.69	--	--	3,550	--	--	126.0	7.99	323	337.0
	06/25/02	430.69	11.86	418.83	1,540	--	--	143	<2.5	123	103
	06/25/02 <sup>D</sup>	430.69	--	--	1,650	--	--	158	<2.5	141	112
	09/28/02	430.69	11.62	419.07	<80.0	--	--	10.4	<0.500	2.88	<1.00
	09/28/02 <sup>D</sup>	430.69	--	--	91.2	--	--	15.0	<0.500	4.65	<1.00
	12/17/02	430.69	12.87	417.82	858	--	--	75.6	<0.500	56.2	6.11
	12/17/02 <sup>D</sup>	430.69	--	--	904	--	--	87.4	<0.500	62.9	7.23
	04/08/03	430.69	12.61	418.08	650	--	--	66	<0.5	49	2.0
	4/8/2003 <sup>D</sup>	430.69	--	--	760	--	--	75	<0.5	59	2.1
	06/24/03	430.69	13.07	417.62	1,200	--	--	120	0.7	90	<1.5
	06/24/03 <sup>D</sup>	430.69	--	--	1,300	--	--	120	0.7	100	<1.5
	09/16/03	430.69	9.82	420.87	1,300	--	--	140	0.7	99	2.8
	09/16/03 <sup>D</sup>	430.69	--	--	1,300	--	--	150	0.7	100	3.1
	12/22/03	430.69	12.69	418.00	870	--	--	83	0.6	59	<1.5
	03/24/04	430.69	14.50	416.19	1,600	--	--	94	1.4	140	3.0
	3/24/2004 <sup>D</sup>	430.69	--	--	1,500	--	--	97	1.4	140	6.7
	06/21/04	430.69	11.98	418.71	1,400	--	--	89	0.9	89	4.2
	6/21/2004 <sup>D</sup>	430.69	--	--	1,600	--	--	95	1.0	110	5.7
	09/29/04	430.69	13.32	417.37	69	--	--	13	<0.5	1.9	<1.5
	12/2/2004	430.69	14.49	416.20	740	160	120	43	<0.5	48	2.5
	04/06/05	430.69	14.61	416.08	1,700	400	180	87	0.9	150	9.0
	4/6/2005 <sup>D</sup>	430.69	--	--	1,700	380	200	80	0.9	140	8.3
	06/27/05	430.69	11.04	419.65	2,300	450	140	110	0.9	160	8.1
	6/27/2005 <sup>D</sup>	430.69	--	--	2,300	420	150	110	0.9	160	8.1
	09/22/05	430.69	12.20	418.49	140	53	39	15	<0.5	13	<1.5
	9/22/2005 <sup>D</sup>	430.69	--	--	140	54	66	17	<0.5	10	<1.5
	12/06/05	430.69	13.92	416.77	290	--	--	26	<0.5	20	<1.5
	<b>03/29/06</b>	<b>430.69</b>	<b>15.29</b>	<b>415.40</b>	<b>880</b>	--	--	<b>43</b>	<b>0.8</b>	<b>56</b>	<b>5.7</b>
	<b>3/29/2006<sup>D</sup></b>	<b>430.69</b>	--	--	<b>850</b>	--	--	<b>37</b>	<b>0.9</b>	<b>50</b>	<b>6.1</b>
G-2	03/28/00	430.11	--	--	Well Inaccessible Beneath Snowbank						
	06/27/00	430.11	11.51	418.60	<50	--	--	<0.5	<0.5	<0.5	<1.0
	09/26/00	430.11	10.56	419.55	<50	--	--	<0.2	<0.5	<0.5	<1.0
	03/27/02	430.11	--	--	<50	--	--	1.15	<0.500	<0.500	<1.00
	04/08/03	430.11	--	--	Well Inaccessible Beneath Snowbank						

**TABLE 2**  
**Groundwater Elevation and POL Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/L)	DRO (µg/L)	RRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
State GCL:					1,300	1,500	1,100	5.0	2.0	700	10,000
G-2	03/24/04	430.11	--	--	Well Inaccessible Beneath Snowbank						
Continued	04/06/05	430.11	--	--	Submerged in pond, low spot in parking lot						
	06/27/05	430.11	10.47	419.64	<10	210	490	<0.5	<0.5	<0.5	<1.5
	09/22/05	430.11	11.62	418.49	--	--	--	--	--	--	--
	<b>03/30/06</b>	<b>430.11</b>	<b>14.73</b>	<b>415.38</b>	<b>&lt;10</b>	<b>--</b>	<b>--</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>
G-4	03/28/00	431.62	--	--	Well Frozen						
	06/27/00	431.62	13.10	418.52	6,230	--	--	42.4	814	137	1,590
	09/26/00	431.62	12.05	419.57	427	--	--	0.551	1.32	14.3	123
	12/19/00	431.62	14.56	417.06	2,380	--	--	<3.50	8.89	79.8	768
	03/30/01	431.62	--	--	Well Frozen						
	06/28/01	431.62	14.02	417.60	205	--	--	0.371	0.885	1.39	25.3
	09/19/01	431.62	13.12	418.50	2,270	--	--	10	20.2	146	824
	12/12/01	431.62	15.30	416.32	7,200	--	--	456	338	510	2,050
	03/27/02	431.62	15.59	416.03	27,400	--	--	1,820	3,990	1,690	4,890
	06/25/02	431.62	12.90	418.72	48,500	--	--	7,160	6,250	1,880	6,100
	09/28/02	431.62	12.53	419.09	13,100	--	--	2,520	893	865	2,190
	12/17/02	431.62	13.89	417.73	72,800	--	--	5,210	8,990	2,290	10,400
	04/08/03	431.62	--	--	Well Frozen						
	06/25/03	431.62	Casing	Damaged	220	--	--	4.2	15	6.1	51
	09/16/03	431.62	Casing	Damaged	7,400	--	--	97	650	62	1,700
	12/22/03	431.62	--	--	Well Frozen						
	03/24/04	431.62	--	--	Well Frozen						
	06/21/04	431.62	Casing	Damaged	9,400	--	--	36	1,300	150	1,700
	09/29/04	431.62	14.04	No Survey	290	--	--	<0.5	0.5	1.5	40.0
	12/2/2004	431.62	15.23	No Survey	170	480	570	<0.5	<0.5	0.6	4.8
	04/06/05	431.62	15.41	No Survey	<10	270	320	<0.5	<0.5	<0.5	<1.5
	06/27/05	431.62	11.95	No Survey	5,000	750	120	11	430	77	830
	09/22/05	431.62	12.90	No Survey	3,000	1,200	1,100	12	450	55	620
	12/07/05	--	--	--	Well inaccessible - Well cap frozen shut						
	<b>03/30/06</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>Well inaccessible - Well frozen</b>						
G-5	03/28/00	430.19	14.86	415.33	35,300	--	--	213	2,000	1,560	7,230
	06/27/00	430.19	11.56	418.63	78,900	--	--	1,060	13,300	2,970	17,800
	09/26/00	430.19	10.53	419.66	81,200	--	--	847	11,400	2,740	21,500
	12/19/00	430.19	13.07	417.12	128,000	--	--	909	15,900	4,720	26,900
	03/30/01	430.19	14.05	416.14	65,900	--	--	273	8,120	3,040	16,100
	06/27/01	430.19	12.43	417.76	102,000	--	--	515	15,700	3,830	22,200
	09/19/01	430.19	11.69	418.50	87,900	--	--	443	13,600	3,660	23,600
	12/12/01	430.19	13.82	416.37	70,100	--	--	254	11,400	3,470	18,300
	03/27/02	430.19	14.10	416.09	56,900	--	--	129	5,110	2,580	13,200
	06/25/02	430.19	11.37	418.82	70,000	--	--	172	7,960	2,680	15,600
	09/28/02	430.19	11.05	419.14	27,500	--	--	46.5	898	437	2,850
	12/17/02	430.19	12.39	417.80	101,000	--	--	145	9,960	3,740	21,000
	04/08/03	430.19	12.12	418.07	98,000	--	--	150	8,200	3,400	21,000
	06/24/03	430.19	12.57	417.62	100,000	--	--	72	9,700	3,800	25,000
	09/16/03	430.19	9.30	420.89	19,000	--	--	28	760	360	4,000
	12/22/03	430.19	12.18	418.01	100,000	--	--	<100	7,000	3,500	22,000
	03/24/04	430.19	14.01	416.18	94,000	--	--	<100	5,800	2,600	15,000
	06/21/04	430.19	11.46	418.73	90,000	--	--	190	6,200	2,800	19,000
	09/29/04	430.19	12.80	417.39	110,000	--	--	140	6,400	3,400	21,000
	12/2/2004	430.19	13.98	416.21	97,000	26,000	3,400	120	6,000	3,200	17,000
	04/06/05	430.19	14.11	416.08	53,000	5,300	530	48	3,000	2,000	8,800
	06/27/05	430.19	10.52	419.67	76,000	7,000	1,100	100	4,200	2,800	16,000
	09/22/05	430.19	11.67	418.52	65,000	8,100	<1,000	74	3,400	2,500	16,000

**TABLE 2**  
**Groundwater Elevation and POL Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/L)	DRO (µg/L)	RRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
State GCL:					1,300	1,500	1,100	5.0	2.0	700	10,000
G-5	12/07/05	430.19	13.40	416.79	80,000	8,500	--	71	3,700	3,000	17,000
Continued	<b>03/30/06</b>	<b>430.19</b>	<b>14.75</b>	<b>415.44</b>	<b>50,000</b>	<b>6,700</b>	<b>&lt;800</b>	<b>50</b>	<b>2,200</b>	<b>1,800</b>	<b>9,900</b>
G-6	3/28/00 <sup>4</sup>	430.40	--	--	--	--	--	--	--	--	--
	06/27/00	430.40	11.71	418.69	<50	--	--	<0.5	<0.5	<0.5	<1.0
	03/27/02	430.40	--	--	Removed from sampling program in June 2001						
G-7	03/28/00	431.54	16.27	415.27	30,500	--	--	418	<50.0	1,170	5,480
	06/27/00	431.54	13.00	418.54	12,600	--	--	162	<25.0	1,470	1,560
	09/26/00	431.54	11.94	419.60	35,800	--	--	76.7	303	540	11,900
	12/19/00	431.54	14.49	417.05	12,800	--	--	112	26.2	803	1,850
	03/30/01	431.54	15.49	416.05	41,900	--	--	99.3	150	600	6,770
	06/27/01	431.54	14.00	417.54	13,300	--	--	115	<25.0	1,190	1,940
	09/19/01	431.54	12.88	418.66	2,770	--	--	10.8	3.83	183	391
	12/12/01	431.54	15.22	416.32	4,160	--	--	42.4	<5.0	470	616
	03/27/02	431.54	15.60	415.94	9,910	--	--	212	<5.00	945	1980
	06/25/02	431.54	12.78	418.76	4,600	--	--	20.7	<5.00	806	778
	09/28/02	431.54	12.46	419.08	1,870	--	--	11.1	<1.00	161	269
	12/17/02	431.54	13.82	417.72	6,810	--	--	72.2	<5.00	779	955
	04/08/03	431.54	13.57	417.97	11,000	--	--	160	15	1,000	1,400
	06/24/03	431.54	14.01	417.53	7,500	--	--	130	<5.0	930	830
	09/16/03	431.54	10.72	420.82	2,800	--	--	13	1.9	85	460
	12/22/03	431.54	13.64	417.90	23,000	--	--	74	43	800	3,800
	03/24/04	431.54	15.42	416.12	28,000	--	--	230	77	1,400	6,100
	06/21/04	431.54	13.00	418.54	13,000	--	--	90	20	1,300	1,600
	09/29/04	431.54	14.18	417.36	7,400	--	--	42	6.4	640	970
	12/2/2004	431.54	15.40	416.14	8,700	3,400	940	54	31	810	970
	04/06/05	431.54	15.55	415.99	16,000	6,500	1,700	130	9.7	1,500	1,700
	06/27/05	431.54	11.96	419.58	17,000	4,100	910	67	6.3	1,700	1,800
	09/22/05	431.54	13.05	418.49	4,100	6,300	<420	18	8.0	360	930
	12/07/05	431.54	14.81	416.73	8,400	9,700	--	46	3.7	860	440
	<b>03/30/06</b>	<b>431.54</b>	<b>16.11</b>	<b>415.43</b>	<b>40,000</b>	<b>59,000</b>	<b>10,000</b>	<b>370</b>	<b>140</b>	<b>1,000</b>	<b>6,700</b>
MW-211	03/29/00	430.48	14.97	415.51	<50	--	--	0.528	<0.5	<0.5	<1.0
	06/28/00	430.48	11.74	418.74	<50	--	--	5.33	<0.5	<0.5	<1.0
	09/26/00	430.48	10.76	419.72	<50	--	--	5.69	<0.5	<0.5	<1.0
	12/19/00	430.48	13.10	417.38	<50	--	--	0.874	<0.5	<0.5	<1.0
	03/30/01	430.48	14.12	416.36	<50	--	--	0.398	<0.5	<0.5	<1.0
	06/27/01	430.48	12.62	417.86	<50	--	--	0.203	<0.5	<0.5	<1.0
	09/19/01	430.48	11.43	419.05	<50	--	--	0.713	<0.5	<0.5	<1.0
	03/27/02	430.48	14.19	416.29	<50	--	--	0.365	<0.500	<0.500	<1.00
	09/28/02	430.48	11.00	419.48	<80.0	--	--	0.866	<0.500	<0.500	<1.00
	04/07/03	430.48	12.19	418.29	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/16/03	430.48	9.30	421.18	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/23/04	430.48	13.95	416.53	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/29/04	430.48	12.66	417.82	<10	--	--	<0.5	<0.5	<0.5	<1.5
	04/06/05	430.48	14.23	416.25	<10	<19	32	<0.5	<0.5	<0.5	<1.5
	09/22/05	430.48	12.08	418.40	<10	<21	27	<0.5	<0.5	<0.5	<1.5
	<b>03/29/06</b>	<b>430.48</b>	<b>16.02</b>	<b>414.46</b>	<b>&lt;10</b>	--	--	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>
MW-301D	03/29/00	432.81	17.63	415.18	<50	--	--	1.71	<0.5	<0.5	<1.0
	06/28/00	432.81	14.46	418.35	<50	--	--	1.65	<0.5	<0.5	<1.0
	09/27/00	432.81	13.43	419.38	<50	--	--	1.13	<0.5	<0.5	<1.0
	12/20/00	432.81	15.78	417.03	<50	--	--	1.51	<0.5	<0.5	<1.0
	03/30/01	432.81	16.79	416.02	<50	--	--	1.40	<0.5	<0.5	<1.0
	06/28/01	432.81	15.34	417.47	<50	--	--	1.51	<0.5	<0.5	<1.0

**TABLE 2**  
**Groundwater Elevation and POL Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/L)	DRO (µg/L)	RRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
State GCL:					1,300	1,500	1,100	5.0	2.0	700	10,000
MW-301D	09/19/01	432.81	14.17	418.64	<50	--	--	1.58	<0.5	<0.5	<1.0
Continued	03/27/02	432.81	16.89	415.92	<50	--	--	2.38	<0.500	<0.500	<1.00
	09/28/02	432.81	13.74	419.07	<80.0	--	--	2.22	<0.500	<0.500	<1.00
	04/07/03	432.81	14.89	417.92	31	--	--	7.1	<0.5	<0.5	<1.5
	09/16/03	432.81	12.07	420.74	18	--	--	4.3	<0.5	<0.5	<1.5
	03/23/04	432.81	16.66	416.15	31	--	--	11	<0.5	<0.5	<1.5
	09/29/04	432.81	15.40	417.41	35	--	--	6.5	<0.5	<0.5	<1.5
	04/06/05	432.81	16.91	415.90	23	33	23	7.4	<0.5	<0.5	<1.5
	06/27/05	432.81	13.47	419.34	12	37	67	2.9	<0.5	<0.5	<1.5
	09/22/05	433.81	14.40	418.41	14	<20	22	2.2	<0.5	<0.5	<1.5
	12/06/05	433.81	16.10	416.71	13 <sup>B</sup>	--	--	2.9	<0.5	<0.5	<1.5
	<b>03/29/06</b>	<b>433.81</b>	<b>17.69</b>	<b>415.12</b>	<b>19</b>	--	--	<b>3.3</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>
MW-301S	03/29/00	432.44	17.26	415.18	4,960	--	--	2,120	<0.5	266	<20.0
	3/29/00 <sup>D</sup>	432.44	--	--	4,570	--	--	2,070	<0.5	230	11.4
	06/28/00	432.44	14.06	418.38	4,510	--	--	1,660	<25.0	259	<50.0
	09/27/00	432.44	13.06	419.38	730	--	--	350	<0.5	37.7	<10
	12/20/00	432.44	15.41	417.03	988	--	--	269	<2.50	133	<5
	03/30/01	432.44	16.43	416.01	426	--	--	42.4	<0.5	106	1.39
	06/28/01	432.44	14.95	417.49	267	--	--	55.9	<0.5	40.3	<1.0
	09/19/01	432.44	13.78	418.66	55.8	--	--	20.7	<0.5	1.56	<1.0
	12/12/01	432.44	16.13	416.31	67.1	--	--	0.430	<0.5	15.9	1.15
	03/27/02	432.44	16.50	415.94	201	--	--	11.4	<0.500	56.5	1.09
	06/25/02	432.44	13.78	418.66	340	--	--	94.3	<2.5	28.9	<5.00
	09/28/02	432.44	13.36	419.08	<80.0	--	--	17.9	<0.500	<0.500	<1.00
	12/17/02	432.44	14.76	417.68	<50.0	--	--	1.31	<0.500	4.23	<1.00
	04/07/03	432.44	14.50	417.94	36	--	--	2.7	<0.5	2.3	<1.5
	06/24/03	432.44	15.01	417.43	25	--	--	1.3	<0.5	1.2	<1.5
	09/16/03	432.44	11.69	420.75	82	--	--	21.0	<0.5	1.1	<1.5
	12/22/03	432.44	14.56	417.88	14	--	--	<0.5	<0.5	<0.5	<1.5
	03/23/04	432.44	16.29	416.15	13	--	--	<0.5	<0.5	<0.5	<1.5
	06/21/04	432.44	13.93	418.51	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/29/04	432.44	15.03	417.41	<10	--	--	<0.5	<0.5	<0.5	<1.5
	12/2/2004	432.44	16.31	416.13	<10	58	100	<0.5	<0.5	<0.5	<1.5
	04/06/05	432.44	16.52	415.92	12	51	54	<0.5	<0.5	<0.5	<1.5
	06/27/05	432.44	13.08	419.36	240	230	170	84	<0.5	<0.5	<1.5
	09/22/05	433.44	14.03	418.41	<10	140	360	1.8	<0.5	<0.5	<1.5
	12/06/05	433.44	15.75	416.69	<10	--	--	1.6	<0.5	<0.5	<1.5
	<b>03/29/06</b>	<b>433.44</b>	<b>17.27</b>	<b>415.17</b>	<b>10</b>	--	--	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>
MW-302D	03/29/00	435.32	20.28	415.04	<50	--	--	13.0	<0.5	<0.5	<1.0
	06/28/00	435.32	17.15	418.17	<50	--	--	10.4	<0.5	<0.5	<1.0
	09/27/00	435.32	16.09	419.23	<50	--	--	9.1	<0.5	<0.5	<1.0
	12/20/00	435.32	18.44	416.88	<50	--	--	14.0	<0.5	<0.5	<1.0
	12/20/00 <sup>D</sup>	435.32	--	--	<50	--	--	14.9	<0.5	<0.5	<1.0
	03/20/01	435.32	--	--	52.9	--	--	20.0	<0.5	<0.5	<1.0
	03/30/01 <sup>D</sup>	435.32	19.45	415.87	53.8	--	--	20.1	<0.5	<0.5	<1.0
	06/28/01	435.32	18.05	417.27	<50	--	--	11.3	<0.5	<0.5	<1.0
	09/19/01	435.32	16.76	418.56	64.6	--	--	28.1	<0.5	<0.5	<1.0
	03/27/02	435.32	19.54	415.78	<50	--	--	10.5	<0.500	<0.500	<1.00
	09/28/02	435.32	16.32	419.00	<80.0	--	--	23.3	<0.500	<0.500	<1.00
	04/07/03	435.32	17.52	417.80	33	--	--	12	<0.5	<0.5	<1.5
	09/16/03	435.32	14.73	420.59	26	--	--	10	<0.5	<0.5	<1.5
	03/23/04	435.32	19.24	416.08	47	--	--	22	<0.5	<0.5	<1.5

**TABLE 2**  
**Groundwater Elevation and POL Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/L)	DRO (µg/L)	RRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
State GCL:					1,300	1,500	1,100	5.0	2.0	700	10,000
MW-302D	09/29/04	435.32	17.97	417.35	140	--	--	44	<0.5	<0.5	<1.5
Continued	04/06/05	435.32	19.58	415.74	29	51	120	11	<0.5	<0.5	<1.5
	06/27/05	435.32	16.20	419.12	17	35	63	6.1	<0.5	<0.5	<1.5
	09/22/05	435.32	17.01	418.31	68	<21	<21	24	<0.5	<0.5	<1.5
	12/06/05	435.32	18.74	416.58	56	--	--	17	<0.5	<0.5	<1.5
	<b>03/29/06</b>	<b>435.32</b>	<b>20.55</b>	<b>414.77</b>	<b>100</b>	--	--	<b>32</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>
MW-302S	03/29/00	434.91	19.85	415.06	1,320	--	--	663	<0.5	2.11	22.6
	06/28/00	434.91	16.74	418.17	1,000	--	--	497	<2.5	<2.5	<5.0
	09/27/00	434.91	15.70	419.21	969	--	--	518	<5	<5	<10
	12/20/00	434.91	18.03	416.88	<50	--	--	13.8	<0.5	<0.5	<1.0
	03/30/01	434.91	19.05	415.86	<50	--	--	1.34	<0.5	<0.5	<1.0
	06/28/01	434.91	17.62	417.29	242	--	--	171	<0.5	<0.5	<1.0
	09/19/01	434.91	16.35	418.56	71.5	--	--	26.6	<0.5	0.660	2.43
	12/12/01	434.91	18.74	416.17	<50	--	--	<0.2	<0.5	<0.5	<1.0
	03/28/02	434.91	19.15	415.76	<50	--	--	3.09	<0.500	<0.500	<1.00
	06/25/02	434.91	16.40	418.51	211	--	--	97.8	<0.500	<0.500	<1.00
	09/28/02	434.91	15.91	419.00	<80.0	--	--	<0.500	<0.500	<0.500	<1.00
	12/17/02	434.91	17.38	417.53	<50.0	--	--	<0.200	<0.500	<0.500	<1.00
	04/07/03	434.91	17.12	417.79	<10	--	--	<0.5	<0.5	<0.5	<1.5
	06/24/03	434.91	17.66	417.25	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/16/03	434.91	14.32	420.59	33	--	--	4.7	<0.5	<0.5	<1.5
	12/22/03	434.91	17.16	417.75	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/23/04	434.91	18.84	416.07	<10	--	--	<0.5	<0.5	<0.5	<1.5
	06/21/04	434.91	16.63	418.28	32	--	--	5.9	<0.5	<0.5	<1.5
	09/29/04	434.91	17.56	417.35	<10	--	--	<0.5	<0.5	<0.5	<1.5
	12/2/2004	434.91	18.90	416.01	12	79	120	<0.5	<0.5	<0.5	<1.5
	04/06/05	434.91	19.19	415.72	20	95	57	<0.5	<0.5	<0.5	<1.5
	06/27/05	434.91	15.81	419.10	28	200	130	<0.5	<0.5	<0.5	<1.5
	09/22/05	434.91	16.61	418.30	10	30	77	2.1	<0.5	<0.5	<1.5
	12/06/05	434.91	18.34	416.57	<10	--	--	<0.5	<0.5	<0.5	<1.5
	<b>03/29/06</b>	<b>434.91</b>	<b>20.04</b>	<b>414.87</b>	<b>15</b>	--	--	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>
MW-303S	03/28/00	429.99	--	--				Well Dry			
	06/27/00	429.99	11.96	418.03	<50	--	--	1.25	<0.5	<0.5	<1.0
	09/26/00	429.99	10.90	419.09	<50	--	--	<0.2	<0.5	<0.5	<1.0
	12/19/00	429.99	13.19	416.80	<50	--	--	<0.2	<0.5	<0.5	<1.0
	03/30/01	429.99	14.28	415.71	<50	--	--	<0.2	<0.5	<0.5	<1.0
	06/28/01	429.99	--	--				Well Dry			
	03/27/02	429.99	14.40	415.59	<50	--	--	<0.200	<0.500	<0.500	<1.00
	04/07/03	429.99	12.27	417.72	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/24/04	429.99	13.99	416.00	<10	--	--	<0.5	<0.5	<0.5	<1.5
	04/06/05	429.99	14.41	415.58	<10	<40	40	<0.5	<0.5	<0.5	<1.5
	<b>03/30/06</b>	<b>429.99</b>	<b>15.06</b>	<b>414.93</b>	<b>10</b>	--	--	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>
MW-304D	03/28/00	434.86	20.15	414.71	252	--	--	131	<0.5	<0.5	<1.0
	06/28/00	434.86	17.19	417.67	303	--	--	130	<2.5	<2.5	<5.0
	09/27/00	434.86	16.04	418.82	116	--	--	75.3	<0.5	0.603	1.31
	12/20/00	434.86	18.31	416.55	172	--	--	69.8	<0.5	<0.5	<1.0
	03/30/01	434.86	19.35	415.51	121	--	--	51.1	<0.5	<0.5	<1.0
	06/28/01	434.86	18.03	416.83	291	--	--	161	<0.5	<0.5	<1.0
	09/19/01	434.86	16.56	418.30	203	--	--	93.8	<0.5	<0.5	<1.0
	12/12/01	434.86	19.00	415.86	121	--	--	48.7	<0.05	<0.5	1.11
	03/27/02	434.86	19.47	415.39	144	--	--	56.8	<0.500	<0.500	<1.00
	03/27/02 <sup>D</sup>	434.86	--	--	148	--	--	59.4	<0.500	<0.500	<1.00

**TABLE 2**  
**Groundwater Elevation and POL Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/L)	DRO (µg/L)	RRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
State GCL:					1,300	1,500	1,100	5.0	2.0	700	10,000
MW-304D	06/25/02	434.86	16.67	418.19	138	--	--	56.6	<0.500	<0.500	<1.00
Continued	09/28/02	434.86	16.14	418.72	213	--	--	90.6	<0.500	<0.500	<1.00
	09/28/02	434.86	--	--	217	--	--	93.2	<0.500	<0.500	<1.00
	12/17/02	434.86	17.59	417.27	114	--	--	34.3	<0.500	<0.500	<1.00
	04/07/03	434.86	17.35	417.51	130	--	--	43	<0.5	<0.5	<1.5
	06/24/03	434.86	18.00	416.86	330	--	--	130	<0.5	<0.5	<1.5
	09/16/03	434.86	14.69	420.17	130	--	--	52	<0.5	<0.5	<1.5
	09/16/03	434.86	--	--	130	--	--	53	<0.5	<0.5	<1.5
	12/22/03	434.86	17.37	417.49	110	--	--	37	<0.5	<0.5	<1.5
	03/23/04	434.86	19.03	415.83	160	--	--	60	<0.5	<0.5	<1.5
	3/23/2004 <sup>D</sup>	--	--	--	150	--	--	56	<0.5	<0.5	<1.5
	06/21/04	434.86	17.16	417.70	210	--	--	81	<0.5	<0.5	<1.5
	09/29/04	434.86	17.71	417.15	490	--	--	150	0.5	<0.5	<1.5
	9/29/2004 <sup>D</sup>	--	--	--	480	--	--	150	0.5	<0.5	<1.5
	12/2/2004	434.86	19.16	415.70	190	70	86	62	<0.5	<0.5	<1.5
	04/06/05	434.86	19.52	415.34	120	66	140	41	<0.5	<0.5	<1.5
	06/27/05	434.86	16.20	418.66	290	48	64	96	<0.5	<0.5	<1.5
	09/21/05	434.86	16.85	418.01	210	28	<19	71	<0.5	<0.5	<1.5
	12/06/05	434.86	18.65	416.21	87	--	--	23	<0.5	<0.5	<1.5
	<b>03/29/06</b>	<b>434.86</b>	<b>20.00</b>	<b>414.86</b>	<b>88</b>	<b>--</b>	<b>--</b>	<b>24</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>
MW-304S	03/28/00	434.51	19.65	414.86	<50	--	--	<0.5	<0.5	<0.5	<1.0
	06/28/00	434.51	16.68	417.83	<50	--	--	<0.5	<0.5	<0.5	<1.0
	09/27/00	434.51	15.54	418.97	<50	--	--	<0.2	<0.5	<0.5	<1.0
	12/20/00	434.51	10.00	424.51	<50	--	--	<0.2	<0.5	<0.5	<1.0
	03/30/01	434.51	18.90	415.61	<50	--	--	<0.2	<0.5	<0.5	<1.0
	06/28/01	434.51	17.57	416.94	<50	--	--	0.210	<0.5	<0.5	<1.0
	03/27/02	434.51	18.97	415.54	<50	--	--	<0.200	<0.500	<0.500	<1.00
	04/07/03	434.51	16.86	417.65	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/23/04	434.51	18.58	415.93	<10	--	--	<0.5	<0.5	<0.5	<1.5
	04/06/05	434.51	19.04	415.47	<10	<40	<40	<0.5	<0.5	<0.5	<1.5
	<b>03/29/06</b>	<b>434.51</b>	<b>19.57</b>	<b>414.94</b>	<b>&lt;10</b>	<b>--</b>	<b>--</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>
MW-305	03/28/00	431.81	15.90	415.91	51.9	--	--	<0.5	0.655	1.05	6.83
	09/26/00	431.81	11.63	420.18	<50	--	--	<0.2	<0.5	<0.5	<1.0
	03/30/01	431.81	15.08	416.73	<50	--	--	<0.2	<0.5	<0.5	<1.0
	03/27/02	431.81	15.18	416.63	<50	--	--	<0.200	<0.500	<0.500	<1.00
	04/08/03	431.81	13.22	418.59	<10	--	--	<0.5	<0.5	<0.5	<1.5
	03/24/04	431.81	15.04	416.77	<10	--	--	<0.5	<0.5	<0.5	<1.5
	04/06/05	431.81	15.21	416.60	<10	<40	56	<0.5	<0.5	<0.5	<1.5
	<b>03/30/06</b>	<b>431.81</b>	<b>16.78</b>	<b>415.03</b>	<b>&lt;10</b>	<b>--</b>	<b>--</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>
MW-309S	03/28/00	436.91	--	--	Well Dry						
	06/28/00	436.91	18.70	418	<50	--	--	<0.5	<0.5	<0.5	<1.0
	03/30/01	436.91	20.95	416	<50	--	--	<0.2	<0.5	<0.5	<1.0
	03/27/02	436.91	--	--	Well Removed From Monitoring Program in June 2001						
GW-1B <sup>1</sup>	03/29/00	--	--	--	59.9	--	--	26.9	0.675	<0.5	<1.0
	06/28/00	--	--	--	73.1	--	--	28.7	0.965	<0.5	<1.0
	06/28/00 <sup>D</sup>	--	--	--	71.6	--	--	27.7	1.18	<0.5	<1.0
	09/27/00	--	--	--	<50	--	--	17.9	<0.5	<0.5	<1.0
	12/20/00	--	--	--	<50	--	--	12.8	<0.5	<0.5	<1.0
	03/29/01	--	--	--	<50	--	--	12.4	<0.5	<0.5	<1.0
	06/28/01	--	--	--	<50	--	--	16.9	<0.5	<0.5	<1.0
	09/19/01	--	--	--	<50	--	--	8.18	<0.5	<0.5	<1.0

**TABLE 2**  
**Groundwater Elevation and POL Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/L)	DRO (µg/L)	RRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
State GCL:					1,300	1,500	1,100	5.0	2.0	700	10,000
GW-1B Continued	12/12/01	--	--	--	<50	--	--	5.32	<0.5	<0.5	<1.0
	03/27/02	--	--	--	<50	--	--	7.89	<0.500	<0.500	<1.00
	06/25/02	--	--	--	<50.0	--	--	7.43	<0.500	<0.500	<1.00
	09/27/02	--	--	--	<80.0	--	--	5.14	<0.500	<0.500	<1.00
	12/17/02	--	--	--	<50.0	--	--	3.85	<0.500	<0.500	<1.00
	04/07/03	--	--	--	21	--	--	6.3	<0.5	<0.5	<1.5
	4/7/2003 <sup>D</sup>	--	--	--	19	--	--	6.4	<0.5	<0.5	<1.5
	06/24/03	--	--	--	23	--	--	8.2	<0.5	<0.5	<1.5
	09/16/03	--	--	--	22	--	--	7.6	<0.5	<0.5	<1.5
	12/22/03	--	--	--	11	--	--	3.4	<0.5	<0.5	<1.5
	12/22/2003 <sup>D</sup>	--	--	--	11	--	--	3.3	<0.5	<0.5	<1.5
	12/2/2004	--	--	--	19	66	94	4.2	<0.5	<0.5	<1.5
	12/2/2004 <sup>D</sup>	--	--	--	15	62	89	3.8	<0.5	<0.5	<1.5
	04/06/05	--	--	--	42	87	210	3.3	13	<0.5	<1.5
	4/6/2005 <sup>D</sup>	--	--	--	34	120	350	3.5	9.6	<0.5	<1.5
	06/27/05	--	--	--	12	42	100	4.3	<0.5	<0.5	<1.5
	6/27/2005 <sup>D</sup>	--	--	--	14	37	87	4.3	0.6	<0.5	<1.5
	09/21/05	--	--	--	20	<20	<20	4.1	1.3	<0.5	<1.5
	9/21/2005 <sup>D</sup>	--	--	--	17	<21	<21	4.0	0.7	<0.5	<1.5
	12/06/05	--	--	--	<10	--	--	2	<0.5	<0.5	<1.5
12/6/2005 <sup>D</sup>	--	--	--	<10	--	--	2	<0.5	<0.5	<1.5	
03/29/06	--	--	--	48	--	--	15	<0.5	<0.5	<1.5	
3/29/2006 <sup>D</sup>	--	--	--	49	--	--	16	<0.5	<0.5	<1.5	
GW-2 <sup>1</sup>	03/29/00	--	--	--	<50	--	--	2.03	<0.5	<0.5	<1.0
	06/28/00	--	--	--	<50	--	--	1.11	<0.5	<0.5	<1.0
	09/27/00	--	--	--	<50	--	--	0.863	0.547	<0.5	1.19
	9/27/00 <sup>D</sup>	--	--	--	<50	--	--	0.852	<0.5	<0.5	1.30
	12/20/00	--	--	--	<50	--	--	1.72	<0.5	<0.5	<1.0
	03/29/01	--	--	--	<50	--	--	1.37	<0.5	<0.5	<1.0
	06/28/01	--	--	--	<50	--	--	1.11	<0.5	<0.5	<1.0
	06/28/01 <sup>D</sup>	--	--	--	<50	--	--	1.05	<0.5	<0.5	<1.0
	03/27/02	--	--	--	<50	--	--	1.15	<0.5	<0.5	<1.0
	04/07/03	--	--	--	<10	--	--	1.2	<0.5	<0.5	<1.5
	04/06/05	--	--	--	Not sampled; change in sampling location (now GW-1B well house)						
	06/27/05	--	--	--	34	31	79	12	<0.5	<0.5	<1.5
	6/27/2005 <sup>D</sup>	--	--	--	Analyzed for EDB only						
	09/21/05	--	--	--	17	<21	<21	5.2	<0.5	<0.5	<1.5
	03/29/06	--	--	--	48	--	--	15	<0.5	<0.5	<1.5
Trip Blank	03/28/00	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<1.0
	06/27/00	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<1.0
	06/28/00	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<1.0
	09/27/00	--	--	--	<50	--	--	<0.2	<0.5	<0.5	<1.0
	12/19/00	--	--	--	<50	--	--	<0.2	<0.5	<0.5	<1.0
	12/20/00	--	--	--	<50	--	--	<0.2	<0.5	<0.5	<1.0
	03/29/01	--	--	--	<50	--	--	<0.2	<0.5	<0.5	<1.0
	06/28/01	--	--	--	<50	--	--	<0.2	<0.5	<0.5	<1.0
	09/19/01	--	--	--	--	--	--	--	--	--	--
	12/12/01	--	--	--	<50	--	--	<0.2	0.569	<0.5	1.05
	09/28/02	--	--	--	<80.0	--	--	<0.500	<0.500	<0.500	<1.00
	04/07/03	--	--	--	<1.5	--	--	<10	<0.5	<0.5	<0.5
06/24/03	--	--	--	<1.5	--	--	<10	<0.5	<0.5	<0.5	

**TABLE 2**  
**Groundwater Elevation and POL Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/L)	DRO (µg/L)	RRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
State GCL:					1,300	1,500	1,100	5.0	2.0	700	10,000
Trip Blank	09/16/03	--	--	--	<1.5	--	--	<10	<0.5	<0.5	<0.5
Continued	12/22/03	--	--	--	<1.5	--	--	<10	<0.5	<0.5	<0.5
	03/24/04	--	--	--	<1.5	--	--	<10	<0.5	<0.5	<0.5
	06/21/04	--	--	--	<1.5	--	--	<10	<0.5	<0.5	<0.5
	09/29/04	--	--	--	<1.5	--	--	<10	<0.5	<0.5	<0.5
	12/2/2004	--	--	--	<1.5	--	--	<10	<0.5	<0.5	<0.5
	04/06/05	--	--	--	<1.5	--	--	<10	<0.5	<0.5	<0.5
	06/27/05	--	--	--	<10	--	--	<0.5	<0.5	<0.5	<1.5
	09/22/05	--	--	--	<10	--	--	<0.5	<0.5	<0.5	<1.5
	12/07/05	--	--	--	11	--	--	<0.5	<0.5	<0.5	<1.5
	<b>03/30/06</b>	--	--	--	<b>&lt;10</b>	--	--	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.5</b>

**Descriptions:**

POL = petroleum, oil and lubricant  
MSL = mean sea level  
TOC = top of casing  
GRO = gasoline range hydrocarbons  
µg/l = micrograms per liter

**Notes:**

<sup>D</sup> = Duplicate sample  
-- = not measured / not sampled  
<sup>1</sup> - Municipal supply well sampled from valve in wellhouse  
No Survey = Top of well casing not re-surveyed since repair on 9/1/2004.  
<sup>B</sup> = indicates potential cross-contamination, as concentration is within 5 times that of the trip blank

<25 = result did not exceed indicated method reporting limit; an elevated reporting limit indicates sample was diluted



**TABLE 3**  
**Groundwater VOC and RCRA Metals Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	EDB* (µg/L)	1, 1-DCA (µg/L)	1, 2-DCA (µg/L)	Mercury (µg/L)	Arsenic (µg/L)	Selenium (µg/L)	Barium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Silver (µg/L)	MtBE (µg/L)
State GCL:		0.05	3,650	5.0	2.0	50.0	50	2,000	5	100	15	180	0.47
G-1R	12/2/2004	<0.0098	--	<1	0.040	8.1	<5.9	174	<0.76	<2.5	<10.0	<2.0	--
	04/06/05	<0.0098	--	<0.5	<0.028	15.4	<5.9	187	1.2	<2.5	<10.0	<2.0	--
	4/6/2005 <sup>D</sup>	<0.0098	--	<0.5	<0.028	17.8	<5.9	187	1.4	<2.5	<10.0	<2.0	--
	06/27/05	--	--	--	--	<9.3	--	--	<0.97	--	<8.4	--	--
	6/27/2005 <sup>D</sup>	--	--	--	--	<9.3	--	--	<0.97	--	<8.4	--	--
	09/22/05	<0.0097	--	<0.5	<0.062	<9.3	<9.4	147	<0.97	<4.8	<8.4	<2.0	--
	9/22/2005 <sup>D</sup>	<0.0097	--	<0.5	<0.062	<9.3	<9.4	146	<0.97	<4.8	<8.4	<2.0	--
	<b>03/30/06</b>	--	--	--	--	--	--	--	--	--	--	--	--
<b>3/30/2006<sup>D</sup></b>	--	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;10</b>
G-2	06/27/05	<0.0097	--	<1	--	10.3	--	--	6.7	--	25.6	--	--
	<b>03/30/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
G-4	12/2/2004	<0.0098	--	<1	0.230	80	<5.9	399	1.6	16.3	30.6	<2.0	--
	04/06/05	<0.0098	--	<0.5	0.053	38.5	<5.9	301	2.2	16.0	25.0	<2.0	--
	06/27/05	--	--	--	--	<9.3	--	--	<0.97	--	<8.4	--	--
	09/22/05	0.065	--	<0.5	<0.062	11.1	<9.4	174	<0.97	<4.8	<8.4	<2.0	--
G-5	12/2/2004	1.9	--	<100	0.30	159	6.7	1,240	2.7	95.2	437	<2.0	--
	04/06/05	1.2	--	<1	0.19	119	<5.9	1,090	11.0	88.2	239	<2.0	--
	06/27/05	2.1 <sup>H</sup>	--	--	--	37.7	--	--	<0.97	--	34.0	--	--
	09/23/05	1.2	--	<3	<0.062	30.0	<9.4	161	1.3	<4.8	15.1	<2.0	--
	12/07/05	2.3	<10	<5	--	--	--	--	--	--	20.90	--	<63
	<b>03/30/06</b>	<b>0.95</b>	<b>&lt;1</b>	--	--	--	--	--	--	--	<b>70.5</b>	--	<b>&lt;100</b>
G-7	12/2/2004	0.88	--	<2	0.052	31.8	<5.9	76.1	<0.76	<2.5	44.0	<2.0	--
	04/06/05	0.18	--	<1	<0.028	42.5	<5.9	61.5	1.0	<2.5	16.4	<2.0	--
	06/27/05	0.32	--	--	--	31.5	--	--	<0.97	--	9.1	--	--
	09/23/05	2.2	--	<1	<0.062	19.4	<9.4	100	<0.97	<4.8	<8.4	<2.0	--
	12/07/05	0.42	<5	<3	--	--	--	--	--	--	--	--	<10
<b>03/30/06</b>	<b>1.1</b>	<b>&lt;2</b>	--	--	--	--	--	--	--	--	--	<b>&lt;100</b>	
MW-211	12/2/2004	--	--	--	--	--	--	--	--	--	--	--	--
	04/06/05	<0.0097	--	<0.5	0.12	62.4	9.3	1130	10.1	97.4	89.1	<2.0	--
	09/22/05	<0.0097	--	<0.5	<0.062	54.3	<9.4	463	4.5	92.0	57.9	<2.0	--
	<b>03/29/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
MW-301D	12/2/2004	--	--	--	--	--	--	--	--	--	--	--	--
	04/06/05	<0.0097	--	<0.5	<0.028	29.7	<5.9	399	<0.76	<2.5	<10.0	<2.0	--
	06/27/05	<0.0094	--	<1	--	29.2	--	--	<0.97	--	<8.4	--	--
	09/22/05	<0.0097	--	<0.5	<0.062	30.5	<9.4	423	<0.97	<4.8	<8.4	<2.0	--
	<b>03/29/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
MW-301S	12/2/2004	<0.0097	--	<1	0.091	159	<5.9	1,730	3.8	53.4	49.1	<2.0	--
	04/06/05	<0.0097	--	<0.5	0.041	91.3	<5.9	970	4.8	45.1	47.4	<2.0	--
	06/27/05	--	--	--	--	101	--	--	1.0	--	9.7	--	--
	09/22/05	<0.0096	--	<0.5	<0.062	56.7	<9.4	310	1.1	10.1	<8.4	<2.0	--
	<b>03/29/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
MW-302D	12/2/2004	--	--	--	--	--	--	--	--	--	--	--	--
	04/06/05	<0.0095	--	<0.5	<0.028	33.4	<5.9	388.0	<0.76	<2.5	<10.0	<2.0	--
	06/27/05	<0.0096	--	<1	--	27.1	--	--	<0.97	--	<8.4	--	--
	09/22/05	<0.0096	--	<0.5	<0.062	36.7	<9.4	446	<0.97	<4.8	<8.4	<2.0	--
	<b>03/29/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
MW-302S	12/2/2004	<0.0096	--	<1	0.075	94.5	<5.9	1,080	2.2	22.3	21.5	<2.0	--
	04/06/05	<0.0095	--	2	0.043	139	<5.9	852	2.2	37.3	36.7	<2.0	--
	06/27/05	--	--	2	--	50.9	--	--	<0.97	--	<8.4	--	--
	09/22/05	<0.0096	--	0.7	<0.062	33.3	<9.4	199	<0.97	<4.8	<8.4	<2.0	--
	<b>03/29/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
MW-303S	12/2/2004	--	--	--	--	--	--	--	--	--	--	--	--
	04/06/05	<0.0098	--	<0.5	<0.028	37.5	<5.9	582	5.2	29.8	35.2	<2.0	--
	<b>03/30/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
MW-304D	12/2/2004	0.0098	--	<1	0.053	27.2	<5.9	365	<0.76	<2.5	<10.0	<2.0	--
	04/06/05	0.0098	--	<0.5	<0.028	25.2	<5.9	379	<0.76	<2.5	<10.0	<2.0	--
	06/27/05	--	--	--	--	25.7	--	--	<0.97	--	<8.4	--	--

**TABLE 3**  
**Groundwater VOC and RCRA Metals Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	EDB* (µg/L)	1, 1-DCA (µg/L)	1, 2-DCA (µg/L)	Mercury (µg/L)	Arsenic (µg/L)	Selenium (µg/L)	Barium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Silver (µg/L)	MtBE (µg/L)
State GCL:		0.05	3,650	5.0	2.0	50.0	50	2,000	5	100	15	180	0.47
MW-304D	09/21/05	<0.0097	--	1	<0.062	31.0	<9.4	412	<0.97	<4.8	<8.4	<2.0	--
Continued	<b>03/29/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
MW-304S	12/2/2004	--	--	--	--	--	--	--	--	--	--	--	--
	04/06/05	<0.0094	--	<0.5	0.078	19.2	<5.9	1020	4.7	40.5	38.0	<2.0	--
	<b>03/29/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
MW-305	12/2/2004	--	--	--	--	--	--	--	--	--	--	--	--
	04/06/05	<0.0094	--	<0.5	0.053	321	<5.9	743	3.1	36.6	35.8	<2.0	--
	<b>03/30/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
GW-1B <sup>1</sup>	12/2/2004	<0.0096	--	<1	0.053	39	<5.9	429	<0.76	<2.5	<10.0	<2.0	--
	12/2/2004	<0.0096	--	<1	0.045	42	<5.9	431	<0.76	<2.5	<10.0	<2.0	--
	04/06/05	<0.0094	--	<0.5	<0.028	42.8	<5.9	424	<0.76	<2.5	<10.0	<2.0	--
	4/6/2005 <sup>D</sup>	<0.0094	--	<0.5	<0.028	44.7	<5.9	433	<0.76	<2.5	<10.0	<2.0	--
	06/27/05	--	--	--	--	42.3	--	--	<0.97	--	<8.4	--	--
	6/27/2005 <sup>D</sup>	--	--	--	--	37.9	--	--	<0.97	--	<8.4	--	--
	09/21/05	<0.0096	--	<0.5	<0.062	45.3	<9.4	398	1.1	<4.8	10.4	<2.0	--
	9/21/2005 <sup>D</sup>	<0.0098	--	<0.5	<0.062	41.7	<9.4	426	0.99	<4.8	13.1	<2.0	--
	<b>03/29/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
	<b>3/29/2006<sup>D</sup></b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
GW-2 <sup>1</sup>	12/2/2004	--	--	--	--	--	--	--	--	--	--	--	--
	04/06/05	--	--	--	--	--	--	--	--	--	--	--	--
	06/27/05	<0.0096	--	<1	--	32.4	--	--	<0.97	--	<8.4	--	--
	09/21/05	<0.0097	--	<0.5	<0.062	37.9	<9.4	363	<0.97	<4.8	<8.4	<2.0	--
	<b>03/29/06</b>	--	--	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>
Trip Blank	06/27/05	<0.0095	--	<1	--	--	--	--	--	--	--	--	--
	09/22/05	--	--	<0.5	--	--	--	--	--	--	--	--	--
	12/07/05	<0.0096	--	--	--	--	--	--	--	--	--	--	--
	<b>03/30/06</b>	--	<b>&lt;1</b>	--	--	--	--	--	--	--	--	--	<b>&lt;2.5</b>

**Descriptions:**

VOC = volatile organic compounds; samples analyzed using EPA Method 8260B  
 RCRA = Resource Conservation and Recovery Act; samples analyzed using EPA Method 6010B  
 GCL = groundwater cleanup level  
 EDB = 1, 2-dibromoethane  
 DCA = dichloroethane  
 MtBE = methyl tertiary butyl ether  
 µg/l = micrograms per liter  
 <25 = result did not exceed indicated method reporting limit; an elevated reporting limit indicates sample was diluted  
 Bold type indicates results of the most recent sampling event  
<sup>D</sup> = duplicate sample  
 -- = not sampled  
 \* = analyzed by EPA Method 504 from December 2004 through April 2005; analyzed by EPA Method 8011 from September 2005 onward.  
<sup>H</sup> - Sample analyzed after expiration of hold time.  
<sup>1</sup> = municipal supply well sampled from valve in wellhouse

**TABLE 4**  
**Groundwater PAH<sup>1</sup> Analytical Data**

Former Texaco 21-1081, 4103 Geist Road  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	Naphthalene (µg/l)	Acenaphthylene (µg/l)	Acenaphthene (µg/l)	Fluorene (µg/l)	Phenanthrene (µg/l)	Anthracene (µg/l)	Fluoranthene (µg/l)	Pyrene (µg/l)	Benzo(a)-anthracene (µg/l)	Chrysene (µg/l)	Benzo(b)-fluoranthene (µg/l)	Benzo(k)-fluoranthene (µg/l)	Benzo(a)-pyrene (µg/l)	Indeno-(1,2,3-cd)-pyrene (µg/l)	Dibenz-(a,h)anthracene (µg/l)	Benzo-(g,h,i)-perylene (µg/l)
State GCL:		700	2,200	2,200	1,460	11,000	11,000	1,460	1,100	1	100	1	10	0.2	1	0.1	1,100
G-5	9/23/2005 <sup>H</sup>	180	0.1	0.5	2	2	0.7	1	1	0.4	0.4	0.2	0.05	0.1	0.03	<0.02	0.2
	12/7/05	290	0.06	0.2	0.7	1	0.3	0.6	0.5	0.2	0.2	0.08	0.03	0.05	<0.02	<0.02	0.08
	3/30/06	130	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
G-7	9/23/2005 <sup>H</sup>	5	<0.02	0.02	<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
	12/7/05	72	<0.02	0.06	0.06	0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
	3/30/06	190	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

**Notes:**

<sup>1</sup>Polycyclic Aromatic Hydrocarbons; analyzed using EPA Method 8270

GCL = groundwater cleanup level

µg/l = micrograms per liter

<sup>H</sup> - Sample analyzed after expiration of hold time.

<25 = result did not exceed indicated method reporting limit; an elevated reporting limit indicates sample was diluted

**Table 5**  
**ADEC Requested Analytes**

Former Texaco Service Station 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

VOCs	RCRA Metals	Hydrocarbons	PAHs
<b>Method 8260/8021<sup>1</sup></b> Carbon tetrachloride Tetrachloroethene Trichloroethene 1,1-dichloroethane 1,1,1-trichloroethane 1,2-dibromoethane (EDB)* 1,2-dichloroethane (1,2-DCA) Methyl t-butyl ether (MtBE) BTEX	<b>Method 6010/7470<sup>2</sup></b> Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	<b>Alaska Method 101/102/103<sup>3</sup></b> Gasoline-range organics (GRO) Diesel-range organics (DRO) Residual-range organics (RRO)	<b>Method 8270</b> Acenaphthene Acenaphthylene Anthracene Benzo (a) Anthracene Benzo (a) Pyrene Benzo (b) flouranthene Benzo (ghi) perylene Benzo (k) fluoranthene Chrysene Dibenzo (a,h) anthracene Fluoranthene Fluorene Indo (1,2,3-cd) pyrene Napthalene Phenanthrene Pyrene

**Notes:**

ADEC = Alaska Department of Environmental Conservation

VOC = volatile organic compounds

RCRA = Resource Conservation and Recovery Act

PAH = polycyclic aromatic hydrocarbons

<sup>1</sup>MtBE and BTEX analyzed by Method 8021B; all other VOCs analyzed by Method 8260B

<sup>2</sup>Mercury analyzed by Method 7470; all other metals analyzed by Method 6010

<sup>3</sup>GRO analyzed by AK 101; DRO by AK 102; and RRO by AK 103

\*EDB also analyzed by Method 8011

**TABLE 6**  
**UAF Water Treatment System**  
**Raw Water Analytical Data**

Former Texaco 21-1081  
(Former University Car Care Center)  
4103 Geist Road  
Fairbanks, Alaska

Well ID	Date Sampled	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Chlorobenzene (µg/l)	m,p-Xylene (µg/l)	o-Xylene (µg/l)	1,3-Dichlorobenzene (µg/l)	1,4-Dichlorobenzene (µg/l)	1,2-Dichlorobenzene (µg/l)
Raw Water	1/22/2002	<b>5.60</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/19/2002	<b>7.51</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/19/2002	<b>6.75</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<0.50	<0.50	<0.50
	4/29/2002	<b>8.54</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<0.50	<0.50	<0.50
	5/29/2002	<b>16.1</b>	<0.50	<0.50	<1.00	<0.50	<0.50	<0.50	<0.50	<0.50
	6/21/2002	<b>10.1</b>	<0.50	<0.50	<1.00	<0.50	<0.50	<0.50	<0.50	<0.50
	7/26/2002	<b>11.1</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	8/22/2002	<b>6.84</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	9/10/2002	<0.50	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	10/23/2002	4.17	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	11/19/2002	4.17	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	12/16/2002	3.91	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	1/28/2003	1.42	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	2/25/2003	<b>6.8</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	3/20/2003	<b>5.21</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	4/22/2003	<b>5.47</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	5/20/2003	4.75	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	6/25/2003	<b>7.29</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	7/23/2003	<b>9.1</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	8/25/2003	<b>5.65</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	9/23/2003	<b>5.44</b>	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	10/15/2003	3.69	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	11/18/2003	4.32	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	12/11/2003	3.6	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	1/22/2004	2.0	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	2/17/2004	2.7	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	3/12/2004	3.0	<0.50	<0.50	<0.50	<1.00	<0.50	<1.00	<1.00	<1.00
	4/20/2004	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/24/2004	3.6	<1.0	<1.0	NR	<2.0	<1.0	NR	NR	NR
	6/22/2004 <sup>H</sup>	<b>7.2</b>	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	7/13/2004	<b>13.0</b>	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	8/19/2004	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	9/24/2004	<b>6.6</b>	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1.3
10/25/2004	<b>5.9</b>	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	
11/23/2004	4.2	<1.0	<1.0	<1.0	<2.0	<1.0	1.2	1.3	2.5	
Influent	12/14/2004	3.5	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	1/19/2005	2.2	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	2/15/2005	3.3	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	3/8/2005	4.6	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	4/19/2005	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	5/24/2005	<b>5.5</b>	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	6/14/2005	2.9	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	7/14/2005	<b>7.6</b>	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	8/10/2005	3.7	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	9/15/2005	<b>5.3</b>	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	10/17/2005	3.7	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	11/8/2005	2.5	<1.0	<1.0	<1.0	3.3	<1.0	<1.0	<1.0	<1.0
	12/16/2005	2.1	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	1/11/2006	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
2/1/2006	1.1	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	
3/6/2006	1.4	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	
<b>Notes:</b>	µg/L = micrograms per liter <25 = result did not exceed indicated method reporting limit; an elevated reporting limit indicates sample was diluted NR - Analytical result for this analyte was not reported. <sup>H</sup> - Sample analyzed after expiration of hold time. Bold text indicates exceedence of regulatory limit									

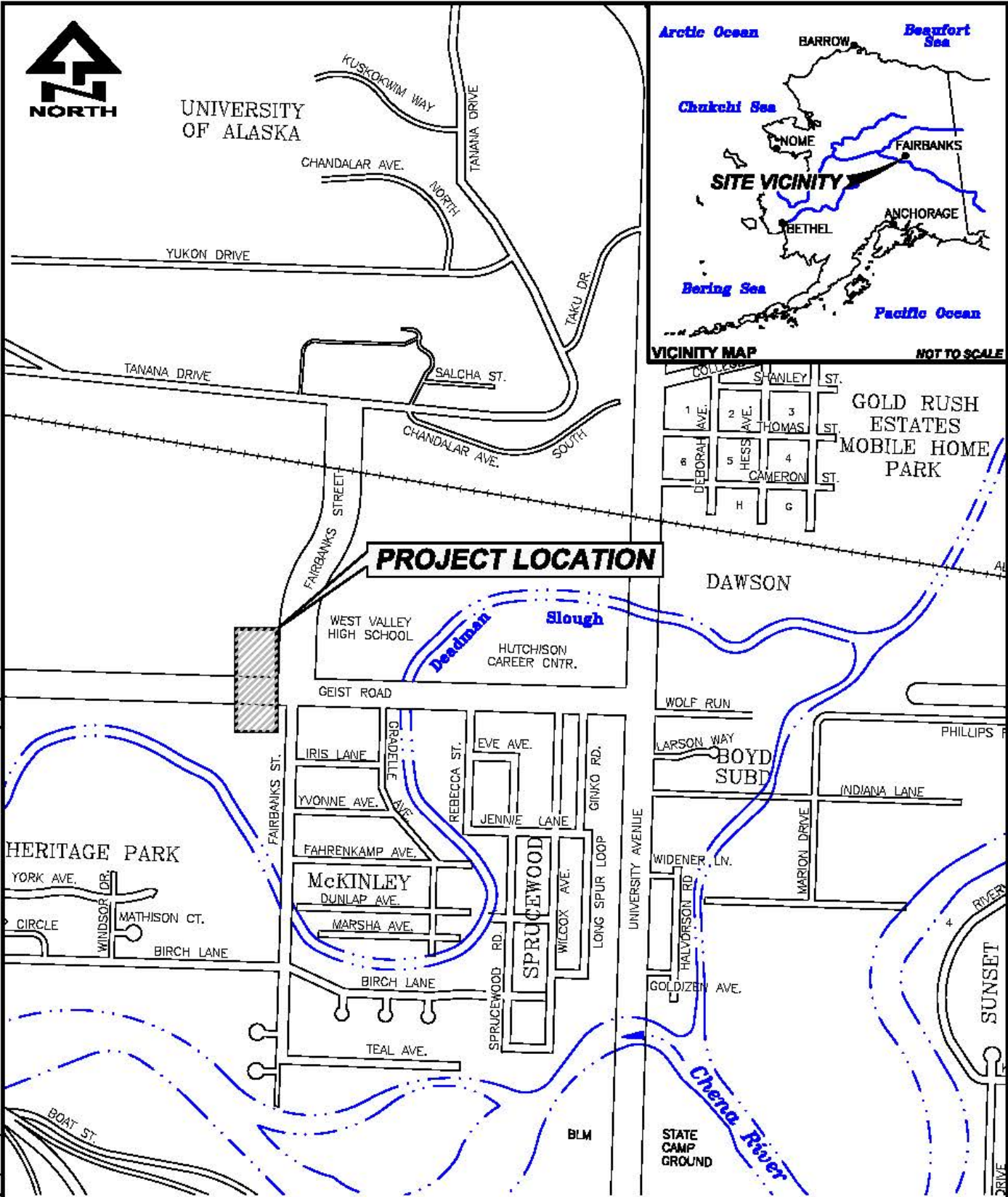
## **FIGURES**



UNIVERSITY OF ALASKA



VICINITY MAP NOT TO SCALE



**PROJECT LOCATION**

NOT TO SCALE

SOURCE: CITY MAP.DWG PROVIDED BY THE NORTH STAR WEB SITE. DATE UNKNOWN.

PATH: V:\Project Drawings\BBL\Geist FILE: 294-001-6\_SVM.DWG PLOTTED: 5/17/06.

DATE  
MAY 2006  
CHKD  
C.B.  
DRAWN  
J.A.A.  
PROJ. NO  
294-001

**oasis**  
ENVIRONMENTAL  
807 G STREET, SUITE #250  
ANCHORAGE, ALASKA 99501

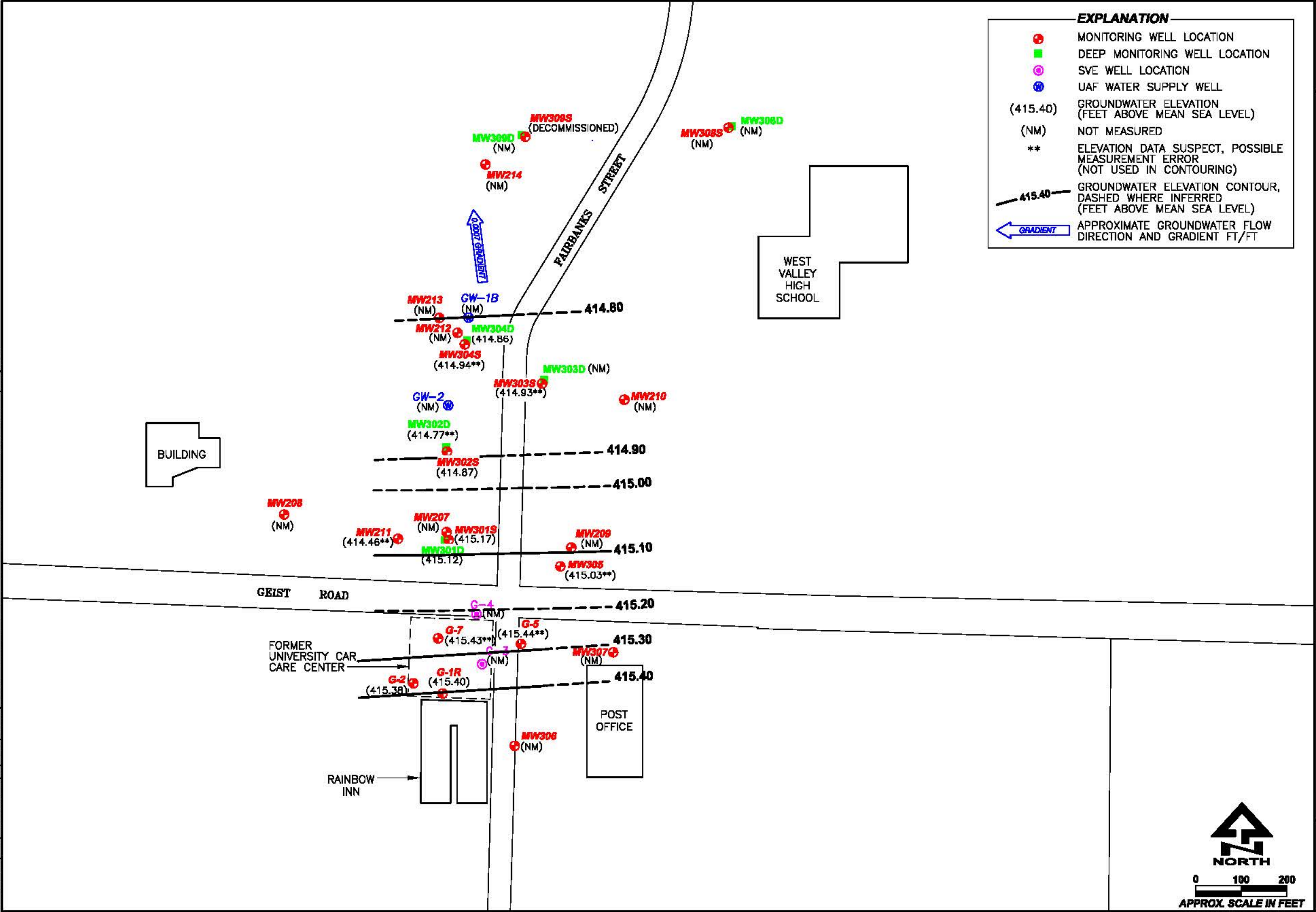
**SITE LOCATION MAP**

FORMER TEXACO  
FACILITY No. 211081  
4103 GEIST ROAD  
FAIRBANKS, ALASKA

FIGURE

1

PATH: V:\Project Drawings\BBL\Geist\2006 FILE: 294-001-6-2-MAR06-F2.DWG PLOTTED: 5/23/06.



**EXPLANATION**

- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- SVE WELL LOCATION
- UAF WATER SUPPLY WELL
- (415.40) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- (NM) NOT MEASURED
- \*\* ELEVATION DATA SUSPECT, POSSIBLE MEASUREMENT ERROR (NOT USED IN CONTOURING)
- 415.40 --- GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- ← GRADIENT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT FT/FT

FIGURE  
**2**

**SITE PLAN WITH GROUNDWATER ELEVATIONS AND CONTOURS - MARCH 29, 2006**

FORMER TEXACO - FACILITY No. 211081  
4103 GEIST ROAD  
FAIRBANKS, ALASKA

**oasis**  
ENVIRONMENTAL  
807 G STREET, SUITE #250  
ANCHORAGE, ALASKA 99501

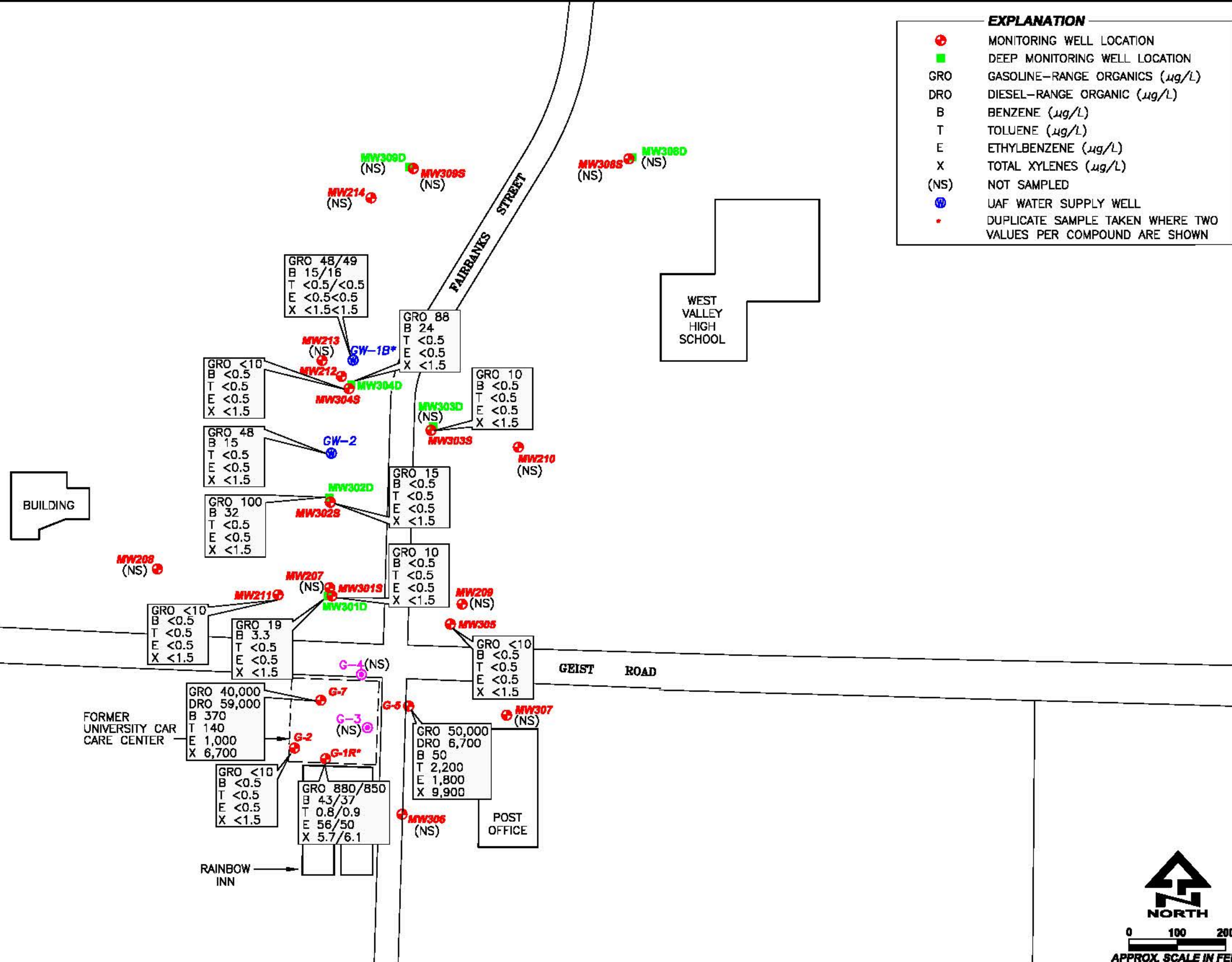
**NORTH**

0 100 200  
APPROX. SCALE IN FEET

DATE	MAY 2006
CHKD	C.B.
DRAWN	J.A.A.
PROJ. NO	294-001



PATH: V:\Project Drawings\BBL\Geist\2006 FILE: 294-001-5-2-MAR06-F3.DWG PLOTTED: 5/16/06.



**EXPLANATION**

- MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- GRO GASOLINE-RANGE ORGANICS (µg/L)
- DRO DIESEL-RANGE ORGANIC (µg/L)
- B BENZENE (µg/L)
- T TOLUENE (µg/L)
- E ETHYLBENZENE (µg/L)
- X TOTAL XYLENES (µg/L)
- (NS) NOT SAMPLED
- UAF WATER SUPPLY WELL
- DUPLICATE SAMPLE TAKEN WHERE TWO VALUES PER COMPOUND ARE SHOWN

**SITE PLAN WITH CHEMICAL CONCENTRATION DATA  
MARCH 29 & 30, 2006**

FIGURE  
**3**

FORMER TEXACO - FACILITY No. 211081  
4103 GEIST ROAD  
FAIRBANKS, ALASKA

**oasis**  
ENVIRONMENTAL  
807 G STREET, SUITE #250  
ANCHORAGE, ALASKA 99501



DATE	MAY 2006
CHKD	C.B.
DRAWN	J.A.A.
PROJ. NO	294-001

**ATTACHMENT 1**  
**FIELD AND LABORATORY PROCEDURES**

First Quarterly Groundwater Monitoring Report 2006

Former Texaco Service Station 21-1081

4103 Geist Road

Fairbanks, Alaska

May 23, 2006

## **Sampling Procedures**

Groundwater samples were collected from monitoring wells at the site using groundwater sampling procedures summarized in the OASIS Quality Assurance Program Plan (QAPP) on file with the Alaska Department of Environmental Conservation (ADEC). The sampling procedure for each well includes gauging the well for water level and the presence of separate phase hydrocarbon (SPH) using a decontaminated oil-water interface probe. Wells not containing SPH were purged of three casing volumes of water using new disposable polyethylene bailers or dedicated 12-Volt purge pumps. Water quality parameters including temperature, pH, electrical conductivity, and turbidity were measured for each purge casing volume and recorded on groundwater sample field data sheets presented in Attachment 2. The equipment and purging method used at each well for each sampling event are noted on the attached field data sheets.

Samples were collected using clean, laboratory-supplied containers and were preserved by acidification with hydrochloric acid and stored in coolers at  $4^{\circ} \pm 2^{\circ}$  C. The sample coolers were then delivered under chain-of-custody procedures, and laboratory-prescribed packaging protocols, to Lancaster Laboratories in Lancaster, Pennsylvania.

## **Laboratory Procedures**

Groundwater samples were analyzed for gasoline range hydrocarbons (GRO) by Alaska Method AK101; diesel range hydrocarbons (DRO) by Alaska Method AK102; residual range hydrocarbons (RRO) by Alaska Method AK103; methyl tertiary butyl ether (MtBE), benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B; volatile organic compounds (VOCs) by EPA Method 8260B; ethylene dibromide (EDB) by EPA Method 8011; polycyclic aromatic hydrocarbons (PAH) by EPA Method 8270; and for lead by EPA Method 6010B.

## **Purge and Rinse 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 prepared and delivered with the groundwater samples to Lancaster Laboratories under the name "Wastewater-W-060330." Results of the composite purge water sample analysis were delivered to the local waste water treatment plant for review and acceptance. Upon acceptance of the analytical results, the water was transported to the Golden Heart Utilities facility in Fairbanks for supervised disposal.

**ATTACHMENT 2**  
**FIELD DATA SHEETS**

First Quarterly Groundwater Monitoring Report 2006  
Former Texaco Service Station 21-1081  
4103 Geist Road  
Fairbanks, Alaska  
May 23, 2006

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): G-1R  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): G-1R-W-060330  
 Client: BBL Date Sample Collected: 30-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1315

**Well Information**

Groundwater: X Casing Diameter (in): 4 a) Well Depth (ft): 18.80  
 b) Water Depth (ft): 15.29  
 Other: \_\_\_\_\_ c) Water Column (ft): 3.51  
 d) Calc. Purge Vol. (gal): 2.3

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-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 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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1303	2.5	7.37	0.676	4.2	lt gray/yell	81	Not Measured	Not Measured	no sheen
1305	5	7.10	0.660	3.9	clear	39			no odor
1308	7.5	7.05	0.661	4.3	clear	14			

Total Volume Purged: 8 Free Product (y/n): n  
 Odor: None Sheen (y/n): 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.)  
 Monument cover is not secured by bolts; must clean bolt holes or replace monument

Remarks (well recovery, unusual conditions/observations):  
 Good recovery

Duplicate Sample ID: G-1R-WD-060330 @ 1330 Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): G-2  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): G-2-W-060330  
 Client: BBL Date Sample Collected: 30-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1230

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 17.2  
 b) Water Depth (ft): 14.73  
 Other: \_\_\_\_\_ c) Water Column (ft): 2.47  
 d) Calc. Purge Vol. (gal): 0.4

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-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 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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1214	0.5	7.19	0.755	2.9	dark gray	999	Not Measured	Not Measured	no sheen
1217	1	7.13	0.738	3.1	dark gray	999			no odor
1220	1.4	7.16	0.730	3.0	olive	999			little white worms
									muddy

Total Volume Purged: 1.4 Free Product (y/n): n

Odor: \_\_\_\_\_ Sheen (y/n): 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.)

Well PVC surrounded by ice; chipped away in order to open well.

Remarks (well recovery, unusual conditions/observations):

Good

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): G-4  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): N/A  
 Client: BBL Date Sample Collected: N/A  
 Sampler: Julie Ahern Time sampled: N/A

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 18.85  
 b) Water Depth (ft): not measured  
 Other: Well Not Sampled (Frozen @ approx. 2 ft below TOC) c) Water Column (ft): not measured  
 d) Calc. Purge Vol. (gal): 0.0

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-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 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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other

Total Volume Purged: \_\_\_\_\_ Free Product (y/n): \_\_\_\_\_

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.)

Well frozen approximately 2 feet below top of casing. Attempted to break through ice with rebar, but unable to penetrate (ice appears to be at least a few inches thick); this well is also part of SVE system, so ice is likely due to vapor condensation.

Remarks (well recovery, unusual conditions/observations):

Duplicate Sample ID: None Collected Analytical Parameters: N/A

Split Sample ID: None Collected

Signed: Julie Ahern Date: 9-Apr-06

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): G-5  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): G-5-W-060330  
 Client: BBL Date Sample Collected: 30-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1530

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 16.95  
 b) Water Depth (ft): 14.75  
 Other: \_\_\_\_\_ c) Water Column (ft): 2.2  
 d) Calc. Purge Vol. (gal): 0.4

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-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 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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1517	0.4	7.51	0.501	2.5	light gray	116	Not Measured	Not Measured	strong odor
1520	0.8	7.40	0.490	1.8	light gray	146			sheen
1523	1.2	7.38	0.493	1.6	light gray	196			

Total Volume Purged: 1.2 Free Product (y/n): n  
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): y  
 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.)  
 One of two bolt holes on monument cover is worn.

Remarks (well recovery, unusual conditions/observations):  
 Good recovery.

Duplicate Sample ID:	<u>None Collected</u>	Analytical Parameters:	<u>GRO/DRO/RRO by AK101/102/103</u>
Split Sample ID:	<u>None Collected</u>		<u>BTEX &amp; MtBE by 8021B</u>
			<u>Lead by 6010</u>
			<u>PAHs by 8270; 1,1-DCA by 8260B</u>

Signed: Julie Ahern Date: 9-Apr-06  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_



**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): G-7  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): G-7-W-060330  
 Client: BBL Date Sample Collected: 30-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1415

**Well Information**

Groundwater: X Casing Diameter (in): 4 a) Well Depth (ft): 18.36  
 b) Water Depth (ft): 16.11  
 Other: \_\_\_\_\_ c) Water Column (ft): 2.25  
 d) Calc. Purge Vol. (gal): 1.5

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-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 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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1400	2.5	7.58	0.833	3.6	light gray	999	Not Measured	Not Measured	effer- vescence
1402	3	7.39	0.818	3.5	light gray	999			heavy sheen
1404	4.5	7.39	0.809	3.3	light gray	771			strong odor

Total Volume Purged: 5 Free Product (y/n): n  
 Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): y  
 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.

Remarks (well recovery, unusual conditions/observations):  
 Good recovery. Pump broke during sampling due to entrapped gravel from well bottom; used bailer to fill two remaining VOA vials.  
 Will replace pump for next sampling event.

Duplicate Sample ID: None Collected Analytical Parameters: GRO/DRO/RRO by AK101/102/103  
 Split Sample ID: None Collected BTEX & MtBE by 8021B  
PAHs by 8270; 1,1-DCA by 8260B

Signed: Julie Ahern Date: 9-Apr-06  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): MW-211  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): MW-211-W-060329  
 Client: BBL Date Sample Collected: 29-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1845

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 18.2  
 b) Water Depth (ft): 16.02  
 Other: \_\_\_\_\_ c) Water Column (ft): 2.18  
 d) Calc. Purge Vol. (gal): 0.3

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-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 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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1833	0.3	6.94	0.233	0.0	brown	999	Not Measured	Not Measured	no odor
1836	0.7	6.62	0.238	0.0	brown	999			no sheen
1838	1	6.51	0.238	0.1	brown	999			

Total Volume Purged: 1 Free Product (y/n): n  
 Odor: None Sheen (y/n): 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

Remarks (well recovery, unusual conditions/observations):  
 Good Recovery

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): MW-301D  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): MW-301D-W-060329  
 Client: BBL Date Sample Collected: 29-Mar-2006  
 Sampler: Carl Benson Time sampled: 1700

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 62.15  
 b) Water Depth (ft): 17.69  
 Other: \_\_\_\_\_ c) Water Column (ft): 44.46  
 d) Calc. Purge Vol. (gal): 7.1

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-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 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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1645	6	7.31	0.637	2.3	gray	109	Not Measured	Not Measured	odor
1650	12	7.24	0.643	1.7	gray	114			no sheen
1655	18	7.22	0.644	1.7	gray	20			

Total Volume Purged: 18 Free Product (y/n): n

Odor: non-hydrocarbon odor Sheen (y/n): 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

Remarks (well recovery, unusual conditions/observations):

Good Recovery

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): MW-301S  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): MW-301S-W-060329  
 Client: BBL Date Sample Collected: 29-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1800

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 18.35  
 b) Water Depth (ft): 17.27  
 Other: \_\_\_\_\_ c) Water Column (ft): 1.08  
 d) Calc. Purge Vol. (gal): 0.2

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-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 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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1753	0.2	7.21	0.455	1.4	yellow/brwn	768	Not Measured	Not Measured	no sheen
1755	0.4	7.19	0.462	1.1	yellow/brwn	729			no odor
1758	0.6	7.23	0.466	1.3	yellow/brwn	720			

Total Volume Purged: 0.6 Free Product (y/n): n

Odor: None Sheen (y/n): 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

Remarks (well recovery, unusual conditions/observations):

Good recovery

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

### GROUNDWATER SAMPLE DATA SHEET

Project Number: 44673 Sample Location (ie. MW-1): MW-302D  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): MW-302D-W-060329  
 Client: BBL Date Sample Collected: 29-Mar-2006  
 Sampler: Carl Benson Time sampled: 1620

#### Well Information

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 61.15  
 b) Water Depth (ft): 20.55  
 Other: \_\_\_\_\_ c) Water Column (ft): 40.6  
 d) Calc. Purge Vol. (gal): 6.5

#### Calculating Purge Volume

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water

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 MEASUREMENTS

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1605	6	7.20	0.646	1.8	clear	1	Not Measured	Not Measured	
1610	12	7.17	0.657	1.7	clear	2			
1615	18	7.15	0.654	1.7	clear	0			

Total Volume Purged: 18 Free Product (y/n): n  
 Odor: None noted Sheen (y/n): 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

Remarks (well recovery, unusual conditions/observations):  
 Good recovery

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): MW-302S  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): MW-302S-W-060329  
 Client: BBL Date Sample Collected: 29-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1730

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 20.60  
 b) Water Depth (ft): 20.04  
 Other: \_\_\_\_\_ c) Water Column (ft): 0.56  
 d) Calc. Purge Vol. (gal): 0.09

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-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 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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1720	0.1	7.44	0.716	0.0	light orange	129	Not Measured	Not Measured	no sheen
1722	0.2	7.45	0.740	0.0	light orange	395			no odor
1724	0.3	7.39	0.742	0.0	light orange	460			

Total Volume Purged: 0.3 Free Product (y/n): n

Odor: None Sheen (y/n): 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

Remarks (well recovery, unusual conditions/observations):

Good recovery

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): MW-303S  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): MW-303S-W-060330  
 Client: BBL Date Sample Collected: 30-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1030

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 15.7  
 b) Water Depth (ft): 15.06  
 Other: \_\_\_\_\_ c) Water Column (ft): 0.64  
 d) Calc. Purge Vol. (gal): 0.10

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water

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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1015	0.1	6.91	0.801	1.3	light orange	419	Not Measured	Not Measured	no sheen
1020	0.2	6.98	0.738	1.0	light yellow	144			no odor
1025	0.3	7.03	0.737	0.8	clear	136			

Total Volume Purged: 0.3 Free Product (y/n): n

Odor: None Sheen (y/n): 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

Remarks (well recovery, unusual conditions/observations):

Slow recharge rate; coarse gravel often clogged bailer due to it hitting well bottom

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): MW-304D  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): MW-304D-W-060329  
 Client: BBL Date Sample Collected: 29-Mar-2006  
 Sampler: Carl Benson Time sampled: 1545

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 59.95  
 b) Water Depth (ft): 20.00  
 Other: \_\_\_\_\_ c) Water Column (ft): 39.95  
 d) Calc. Purge Vol. (gal): 6.4

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

Note: assuming sand pack has 29% porosity

**Example 1- purging only well casing volume**  
 2-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 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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1534	6	7.13	0.682	2.6	clear	3	Not Measured	Not Measured	faint odor
1539	12	7.23	0.594	2.4	clear	0			no sheen
1544	18	7.19	0.592	2.2	clear	4			

Total Volume Purged: 18 Free Product (y/n): n

Odor: Faint petroleum hydrocarbon-like odor Sheen (y/n): 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

Remarks (well recovery, unusual conditions/observations):

Good recovery

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_



**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): MW-304S  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): MW-304S-W-060329  
 Client: BBL Date Sample Collected: 29-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1615

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 20.25  
 b) Water Depth (ft): 19.57  
 Other: \_\_\_\_\_ c) Water Column (ft): 0.68  
 d) Calc. Purge Vol. (gal): 0.1

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water

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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1607	0.1	7.41	0.320	1.7	olive	129	Not Measured	Not Measured	no sheen
1609	0.2	7.28	0.311	1.4	olive	999			no odor
1611	0.4	7.17	0.308	2.0	lt brown	698			

Total Volume Purged: 0.4 Free Product (y/n): n  
 Odor: None Sheen (y/n): 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

Remarks (well recovery, unusual conditions/observations):  
 Good recovery

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): MW-305  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): MW-305-W-060330  
 Client: BBL Date Sample Collected: 30-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1130

**Well Information**

Groundwater: X Casing Diameter (in): 2 a) Well Depth (ft): 17.88  
 b) Water Depth (ft): 16.78  
 Other: \_\_\_\_\_ c) Water Column (ft): 1.1  
 d) Calc. Purge Vol. (gal): 0.2

**Calculating Purge Volume**

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water

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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other
1115	0.2	7.45	0.842	0.4	red/orange	999	Not Measured	Not Measured	no sheen
1118	0.4	7.09	0.840	0.1	org/brwn	999			no odor
1121	0.6	7.10	0.835	0.3	yell/brwn	999			

Total Volume Purged: 0.6 Free Product (y/n): n  
 Odor: None Sheen (y/n): 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

Remarks (well recovery, unusual conditions/observations):  
 Moderate recovery

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

### GROUNDWATER SAMPLE DATA SHEET

Project Number: 44673 Sample Location (ie. MW-1): GW-1B  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): G-1B-W-060329  
 Client: BBL Date Sample Collected: 29-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1515

#### Well Information

Groundwater: X Casing Diameter (in): Municipal Production Well a) Well Depth (ft): \_\_\_\_\_  
 b) Water Depth (ft): N/A  
 Other: \_\_\_\_\_ c) Water Column (ft): N/A  
 d) Calc. Purge Vol. (gal): N/A

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water

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 MEASUREMENTS

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other

Total Volume Purged: \_\_\_\_\_ Free Product (y/n): \_\_\_\_\_  
 Odor: None Sheen (y/n): n

Purge Method (disposable bailer, teflon bailer, submersible pump, etc.)  
N/A

Sample Method (disposable bailer, teflon bailer, submersible pump, etc.)  
Pumping-well valve

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)

Remarks (well recovery, unusual conditions/observations):

Duplicate Sample ID: GW-1B-WD-060329 @ 1530 Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06

Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**GROUNDWATER SAMPLE DATA SHEET**

Project Number: 44673 Sample Location (ie. MW-1): GW-2  
 Project Name: 4103 Geist Rd. University Car Care Sample ID (ie. MW-1-W-yymmdd): GW-2-W-060329  
 Client: BBL Date Sample Collected: 29-Mar-2006  
 Sampler: Julie Ahern Time sampled: 1535

**Well Information**

Groundwater: X Casing Diameter (in): Municipal Production Well a) Well Depth (ft): \_\_\_\_\_  
 b) Water Depth (ft): N/A  
 Other: \_\_\_\_\_ c) Water Column (ft): N/A  
 d) Calc. Purge Vol. (gal): N/A

Well Casing Diameter	Multiply c) by:
2	0.16
4	0.65
6	1.47

Sand Pack Diameter	Multiply c) by:
8	0.71
10	1
12	1.28

**Example 1- purging only well casing volume**  
 2-inch casing and 6-foot water column  
 One Purge Volume= 0.16 X 6 = 0.96 gallons water

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 MEASUREMENTS**

Time	Volume (gallons)	pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	Redox	Dissolved O <sub>2</sub>	Other

Total Volume Purged: \_\_\_\_\_ Free Product (y/n): \_\_\_\_\_  
 Odor: None Sheen (y/n): n

Purge Method (disposable bailer, teflon bailer, submersible pump, etc.)  
N/A

Sample Method (disposable bailer, teflon bailer, submersible pump, etc.)  
Pumping-well valve

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)

Remarks (well recovery, unusual conditions/observations):

Duplicate Sample ID: None Collected Analytical Parameters: AK 101 (GRO)  
 Split Sample ID: None Collected EPA 8021B (BTEX)

Signed: Julie Ahern Date: 9-Apr-06  
 Signed/reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**ATTACHMENT 3**  
**LABORATORY ANALYTICAL REPORT:**  
**QUARTERLY SAMPLING RESULTS**  
First Quarterly Groundwater Monitoring Report 2006  
Former Texaco Service Station 21-1081  
4103 Geist Road  
Fairbanks, Alaska  
May 23, 2006

## 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 17605-2425SAMPLE GROUP

The sample group for this submittal is 984016. Samples arrived at the laboratory on Monday, April 03, 2006. The PO# for this group is 0015002075 and the release number is HARTUNG-FRERICH.

Client DescriptionLancaster Labs Number

GW-1B-W-060329 Grab Water Sample	4742143
GW-1B-WD-060329 Grab Water Sample	4742144
GW-2-W-060329 Grab Water Sample	4742145
MW-304D-W-060329 Grab Water Sample	4742146
MW-304S-W-060329 Grab Water Sample	4742147
MW-302D-W-060329 Grab Water Sample	4742148
MW-302S-W-060329 Grab Water Sample	4742149
MW-301D-W-060329 Grab Water Sample	4742150
MW-301S-W-060329 Grab Water Sample	4742151
MW-211-W-060329 Grab Water Sample	4742152
G-1R-W-060330 Grab Water Sample	4742153
G-1R-WD-060330 Grab Water Sample	4742154
MW-303S-W-060330 Grab Water Sample	4742155
MW-305-W-060330 Grab Water Sample	4742156
G-2-W-060330 Grab Water Sample	4742157
G-7-W-060330 Grab Water Sample	4742158
G-5-W-060330 Grab Water Sample	4742159
WasteWater-W-060330 Composite Water Sample	4742160
QA-T-060330 Water Sample	4742161

ELECTRONIC      Oasis Environmental, Inc.  
COPY TO

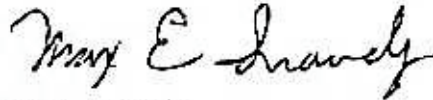
Attn: Julie Ahern

ELECTRONIC    Blasland, Bouck & Lee  
COPY TO

Attn: Rebecca Andresen

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

Respectfully Submitted,



Max E. Snavelly  
Senior Specialist



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742143

GW-1B-W-060329 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/29/2006 15:15 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:30

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

GW-1B

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	48.		10.	ug/l	1
02159	BTEX, MTBE						
02161	Benzene	71-43-2	15.		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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.		2.5	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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 03:27	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 03:27	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 03:27	Martha L Seidel	1





# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742144

GW-1B-WD-060329 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/29/2006 15:30 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:30

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

GW1BD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	49.		10.	ug/l	1
02159	BTEX, MTBE						
02161	Benzene	71-43-2	16.		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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.		2.5	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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 04:00	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 04:00	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 04:00	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742145

GW-2-W-060329 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/29/2006 15:35 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:30

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

GW-2-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	48.		10.	ug/l	1
02159	BTEX, MTBE						
02161	Benzene	71-43-2	15.		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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.		2.5	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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 04:33	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 04:33	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 04:33	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742146

MW-304D-W-060329 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/29/2006 15:45 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:30

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

M304D

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	88.	10.		ug/l	1
02159	BTEX, MTBE						
02161	Benzene	71-43-2	24.	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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5		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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 05:06	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 05:06	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 05:06	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742147

MW-304S-W-060329 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/29/2006 16:15 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:30

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

M304S

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	N.D.	10.		ug/l	1
02159	BTEX, MTBE						
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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5		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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 05:39	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 05:39	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 05:39	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742148

MW-302D-W-060329 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/29/2006 16:20 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:30

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

M302D

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	100.		10.	ug/l	1
02159	BTEX, MTBE						
02161	Benzene	71-43-2	32.		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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.		2.5	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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 06:12	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 06:12	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 06:12	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742149

MW-302S-W-060329 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/29/2006 17:30 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:30

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

M302S

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	15.	10.		ug/l	1
02159	BTEX, MTBE						
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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5		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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 06:45	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 06:45	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 06:45	Martha L Seidel	1



# Analysis Report

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

Page 1 of 1

Lancaster Laboratories Sample No. WW 4742150

MW-301D-W-060329 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/29/2006 17:00 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

M301D

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	19.	10.		ug/l	1
02159	BTEX, MTBE						
02161	Benzene	71-43-2	3.3	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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5		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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 08:23	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 08:23	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 08:23	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742151

MW-301S-W-060329 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/29/2006 18:00 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

M301S

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	10.	10.		ug/l	1
02159	BTEX, MTBE						
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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5		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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 08:56	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 08:56	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 08:56	Martha L Seidel	1





# Analysis Report

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

Lancaster Laboratories Sample No. **WW 4742152**

**MW-211-W-060329 Grab Water Sample**

**Facility# 211081**

**4103 Geist Rd - Fairbanks, AK**

Collected: 03/29/2006 18:45 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

M211-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	N.D.	10.		ug/l	1
02159	BTEX, MTBE						
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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5		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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 09:29	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 09:29	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 09:29	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742153

G-1R-W-060330 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/30/2006 13:15 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

G-1R-

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.	880.	10.	ug/l	1
02159	BTEX, MTBE					
02161	Benzene	71-43-2	43.	0.5	ug/l	1
02164	Toluene	108-88-3	0.8	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	56.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	5.7	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	20.	ug/l	1

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

State of Alaska Lab Certification No. UST-061

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

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 10:02	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 10:02	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 10:02	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742154

G-1R-WD-060330 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/30/2006 13:30 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

G-1RD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	850.	10.		ug/l	1
02159	BTEX, MTBE						
02161	Benzene	71-43-2	37.	0.5		ug/l	1
02164	Toluene	108-88-3	0.9	0.5		ug/l	1
02166	Ethylbenzene	100-41-4	50.	0.5		ug/l	1
02171	Total Xylenes	1330-20-7	6.1	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 interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

State of Alaska Lab Certification No. UST-061

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

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 10:35	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 10:35	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 10:35	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742155

MW-303S-W-060330 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/30/2006 10:30 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

M303S

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	10.	10.		ug/l	1
02159	BTEX, MTBE						
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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5		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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 11:08	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 11:08	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 11:08	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742156

MW-305-W-060330 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/30/2006 11:30 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

M305-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	N.D.	10.		ug/l	1
02159	BTEX, MTBE						
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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5		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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 11:40	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 11:40	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 11:40	Martha L Seidel	1



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742157

G-2-W-060330 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/30/2006 12:30 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

G-2W-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01440	Alaska AK101 GRO (waters)						
01442	Alaska AK101 GRO (waters)	n.a.	N.D.	10.		ug/l	1
02159	BTEX, MTBE						
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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5		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 No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 12:13	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 12:13	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 12:13	Martha L Seidel	1

**Lancaster Laboratories Sample No. WW 4742158**
**G-7-W-060330 Grab Water Sample**
**Facility# 211081**
**4103 Geist Rd - Fairbanks, AK**

Collected: 03/30/2006 14:15 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

G-7W-

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.	40,000.	100.	ug/l	10
02159	BTEX, MTBE					
02161	Benzene	71-43-2	370.	0.5	ug/l	1
02164	Toluene	108-88-3	140.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	1,000.	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	6,700.	15.	ug/l	10
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	100.	ug/l	1
	Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.					
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	59,000.	2,200.	ug/l	100
02946	C25-C36 RRO	n.a.	10,000.	2,200.	ug/l	100
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	1.1	0.097	ug/l	10
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	190.	2.	ug/l	2
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
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



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742158

G-7-W-060330 Grab Water Sample  
 Facility# 211081  
 4103 Geist Rd - Fairbanks, AK  
 Collected: 03/30/2006 14:15 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50  
 Reported: 04/17/2006 at 09:31  
 Discard: 05/18/2006

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

G-7W-

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method Detection Limit		
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
07582	PPL + Xylene (total) by 8260					
05393	1,1-Dichloroethane	75-34-3	N.D.	2.	ug/l	2

State of Alaska Lab Certification No. UST-061

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

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 17:52	Martha L Seidel	10
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 12:46	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 17:52	Martha L Seidel	10
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	04/13/2006 00:35	Sarah M Snyder	100
07879	EDB in Wastewater	SW-846 8011	1	04/11/2006 01:42	James H Place	10
07805	PAHs in Water by GC/MS	SW-846 8270C	1	04/06/2006 02:40	Linda M Hartenstine	1
07805	PAHs in Water by GC/MS	SW-846 8270C	1	04/06/2006 07:20	Joseph M Gambler	2
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	04/10/2006 11:17	Ginelle L Feister	2
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 12:46	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	2	04/05/2006 17:52	Martha L Seidel	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/10/2006 11:17	Ginelle L Feister	2
02376	Extraction - Fuel/TPH (Waters)	AK 102/AK 103	1	04/04/2006 17:50	JoElla L Rice	1
07786	EDB Extraction	SW-846 8011	1	04/05/2006 13:30	Deborah M Zimmerman	1
07807	BNA Water Extraction	SW-846 3510C	1	04/05/2006 03:00	Sherry L Morrow	1



**Lancaster Laboratories Sample No. WW 4742159**
**G-5-W-060330 Grab Water Sample**
**Facility# 211081**
**4103 Geist Rd - Fairbanks, AK**

Collected: 03/30/2006 15:30 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

G-5W-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	70.5	8.4	ug/l	1
01440	Alaska AK101 GRO (waters)					
01442	Alaska AK101 GRO (waters)	n.a.	50,000.	100.	ug/l	10
02159	BTEX, MTBE					
02161	Benzene	71-43-2	50.	2.5	ug/l	5
02164	Toluene	108-88-3	2,200.	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	1,800.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	9,900.	15.	ug/l	10
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	100.	ug/l	5
	Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.					
02923	TPH-DRO/RRO (AK) water					
02943	C10-<C25 DRO	n.a.	6,700.	800.	ug/l	20
02946	C25-C36 RRO	n.a.	N.D.	800.	ug/l	20
07879	EDB in Wastewater					
01087	Ethylene dibromide	106-93-4	0.95	0.098	ug/l	10
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	130.	2.	ug/l	2
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	1.	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
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



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742159

G-5-W-060330 Grab Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/30/2006 15:30 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

G-5W-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
03977	Benzo(a)pyrene	50-32-8	N.D.	Detection Limit	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	Detection Limit	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	Detection Limit	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	Detection Limit	ug/l	1
07582	PPL + Xylene (total) by 8260					
05393	1,1-Dichloroethane	75-34-3	N.D.	Detection Limit	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 No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor	
				Date	Time			
07055	Lead	SW-846 6010B	1	04/06/2006	10:30	Joanne M Gates	1	
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006	18:25	Martha L Seidel	10	
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006	13:19	Martha L Seidel	5	
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006	18:25	Martha L Seidel	10	
02923	TPH-DRO/RRO (AK) water	AK 102/103 4/08/02 modified	1	04/10/2006	19:55	Sarah M Snyder	20	
07879	EDB in Wastewater	SW-846 8011	1	04/11/2006	02:12	James H Place	10	
07805	PAHs in Water by GC/MS	SW-846 8270C	1	04/06/2006	03:36	Linda M Hartenstine	1	
07805	PAHs in Water by GC/MS	SW-846 8270C	1	04/06/2006	08:16	Joseph M Gambler	2	
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	04/10/2006	11:58	Ginelle L Feister	1	
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006	13:19	Martha L Seidel	5	
01146	GC VOA Water Prep	SW-846 5030B	2	04/05/2006	18:25	Martha L Seidel	10	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/10/2006	11:58	Ginelle L Feister	1	
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	04/04/2006	20:00	James L Mertz	1	
02376	Extraction - Fuel/TPH (Waters)	AK 102/AK 103	04/08/02	1	04/04/2006	17:50	JoElla L Rice	1
07786	EDB Extraction	SW-846 8011	1	04/05/2006	13:30	Deborah M Zimmerman	1	
07807	BNA Water Extraction	SW-846 3510C	1	04/05/2006	03:00	Sherry L Morrow	1	



# Analysis Report

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

Lancaster Laboratories Sample No. WW 4742160

WasteWater-W-060330 Composite Water Sample

Facility# 211081

4103 Geist Rd - Fairbanks, AK

Collected: 03/30/2006 17:30 by JA

Account Number: 11964

Submitted: 04/03/2006 09:50

Chevron

Reported: 04/17/2006 at 09:31

6001 Bollinger Canyon Rd L4310

Discard: 05/18/2006

San Ramon CA 94583

WASWA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00430	Flash Point for Liquids	n.a.	No Flash Observed		Degrees F	1
	No flash observed below 160F. Test flame extinguished at 140F. Flash point was determined using Pensky Martens closed cup apparatus.					
08079	HEM (oil & grease)	n.a.	7,200.	1,400.	ug/l	1
02159	BTEX, MTBE					
02161	Benzene	71-43-2	40.	0.5	ug/l	1
02164	Toluene	108-88-3	120.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	130.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	2,000.	7.5	ug/l	5
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	10.	ug/l	1
	Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.					

State of Alaska Lab Certification No. UST-061

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

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00430	Flash Point for Liquids	ASTM D93-90	1	04/11/2006 08:30	Susan A Engle	1
08079	HEM (oil & grease)	EPA 1664A	1	04/13/2006 10:45	Michelle L Heidig	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 15:31	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 19:31	Martha L Seidel	5
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 15:31	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	2	04/05/2006 19:31	Martha L Seidel	5



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4742161

QA-T-060330 Water Sample  
 Facility# 211081  
 4103 Geist Rd - Fairbanks, AK  
 Collected: 03/30/2006 08:00

Account Number: 11964

Submitted: 04/03/2006 09:50  
 Reported: 04/17/2006 at 09:31  
 Discard: 05/18/2006

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

QAT30

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
02159	BTEX, MTBE					
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
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
07582	PPL + Xylene (total) by 8260					
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	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 No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
01440	Alaska AK101 GRO (waters)	AK 101	1	04/05/2006 02:54	Martha L Seidel	1
02159	BTEX, MTBE	SW-846 8021B	1	04/05/2006 02:54	Martha L Seidel	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	04/10/2006 12:40	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/05/2006 02:54	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/10/2006 12:40	Ginelle L Feister	1

## Quality Control Summary

 Client Name: Chevron  
 Reported: 04/17/06 at 09:31 AM

Group Number: 984016

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

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 060940005A	Sample number(s): 4742158-4742159							
C10-<C25 DRO	N.D.	20.	ug/l	90	93	75-125	3	20
C25-C36 RRO	N.D.	20.	ug/l	92	92	75-125	0	20
Batch number: 060940019A	Sample number(s): 4742158-4742159							
Ethylene dibromide	N.D.	0.010	ug/l	104	100	60-140	4	20
Batch number: 060941848005	Sample number(s): 4742159							
Lead	N.D.	0.0084	mg/l	106		90-113		
Batch number: 06094B51A	Sample number(s): 4742143-4742161							
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	112	114	60-120	2	20
Benzene	N.D.	0.5	ug/l	96	91	86-119	5	30
Toluene	N.D.	0.5	ug/l	101	98	82-119	3	30
Ethylbenzene	N.D.	0.5	ug/l	103	102	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	105	104	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	99	99	82-124	0	30
Batch number: 06094WAD026	Sample number(s): 4742158-4742159							
Naphthalene	N.D.	1.	ug/l	88	93	70-104	5	30
Acenaphthylene	N.D.	1.	ug/l	96	99	84-123	3	30
Acenaphthene	N.D.	1.	ug/l	90	92	68-111	2	30
Fluorene	N.D.	1.	ug/l	95	96	61-116	1	30
Phenanthrene	N.D.	1.	ug/l	82	82	68-111	1	30
Anthracene	N.D.	1.	ug/l	85	81	68-108	5	30
Fluoranthene	N.D.	1.	ug/l	79	79	66-108	0	30
Pyrene	N.D.	1.	ug/l	94	90	68-114	4	30
Benzo(a)anthracene	N.D.	1.	ug/l	90	87	72-112	4	30
Chrysene	N.D.	1.	ug/l	91	89	70-111	2	30
Benzo(b)fluoranthene	N.D.	1.	ug/l	91	93	67-117	2	30
Benzo(k)fluoranthene	N.D.	1.	ug/l	91	92	67-120	1	30
Benzo(a)pyrene	N.D.	1.	ug/l	91	91	68-121	0	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	ug/l	94	94	67-122	0	30
Dibenz(a,h)anthracene	N.D.	1.	ug/l	95	95	71-129	0	30
Benzo(g,h,i)perylene	N.D.	1.	ug/l	91	92	67-121	1	30
Batch number: 06101043001A	Sample number(s): 4742160							
Flash Point for Liquids				101	100	97-103	1	4
Batch number: 06103807901A	Sample number(s): 4742160							
HEM (oil & grease)	N.D.	1.4	mg/l	89	85	78-114	4	20
Batch number: Z061001AA	Sample number(s): 4742158-4742159,4742161							
1,1-Dichloroethane	N.D.	1.	ug/l	100		83-127		

\*- Outside of specification

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

## Quality Control Summary

Client Name: Chevron Group Number: 984016  
 Reported: 04/17/06 at 09:31 AM

### Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 060940019A Ethylene dibromide	65		65-135			N.D.	N.D.	0 (1)	30
Batch number: 060941848005 Lead	104	104	75-125	0	20	N.D.	N.D.	170* (1)	20
Batch number: 06094B51A Benzene	107		78-131						
Toluene	108		78-129						
Ethylbenzene	112		75-133						
Total Xylenes	120		84-131						
Methyl tert-Butyl Ether	94		70-134						
Batch number: Z061001AA 1,1-Dichloroethane	106	106	85-135	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: 060940005A  
 Orthoterphenyl

n-Triacontane-d62

4742158	81	336*
4742159	93	101
Blank	92	92
LCS	98	94
LCSD	99	95
Limits:	50-150	50-150

Analysis Name: EDB in Wastewater  
 Batch number: 060940019A  
 1,1,2,2-Tetrachloroethane

4742158	112
4742159	429*
Blank	99
DUP	79
LCS	97
LCSD	97
MS	79
Limits:	52-120

Analysis Name: Alaska AK101 GRO (waters)

\*- Outside of specification

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

## Quality Control Summary

 Client Name: Chevron  
 Reported: 04/17/06 at 09:31 AM

Group Number: 984016

### Surrogate Quality Control

Batch number: 06094B51A

	Trifluorotoluene-F	Trifluorotoluene-P
4742143	99	95
4742144	102	104
4742145	99	95
4742146	101	103
4742147	97	93
4742148	102	106
4742149	102	101
4742150	101	104
4742151	103	103
4742152	101	104
4742153	111	108
4742154	104	98
4742155	101	102
4742156	102	104
4742157	97	95
4742158	96	109
4742159	105	109
4742160		108
4742161	103	100
Blank	100	100
LCS	108	102
LCSD	107	95
MS		101

Limits: 60-120 69-129

Analysis Name: PAHs in Water by GC/MS

Batch number: 06094WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4742158	65	87	85
4742159	66	65	59
Blank	98	88	89
LCS	97	90	95
LCSD	100	92	92

Limits: 51-123 64-112 52-151

Analysis Name: PPL + Xylene (total) by 8260

Batch number: Z061001AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4742158	89	81	91	88
4742159	89	83	97	88
4742161	90	83	89	88
Blank	93	85	90	87
LCS	91	85	90	92
MS	91	85	89	92
MSD	91	85	90	92

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.

## Quality Control Summary

Client Name: Chevron  
Reported: 04/17/06 at 09:31 AM

Group Number: 984016

\*- 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 2

For Lancaster Laboratories use only  
 Acct. #: 11964 Sample #: 4742143-61 SCR#: 25871  
 Group# 984016

Facility #: 211081-OML  
 Site Address: 4103 Geist Rd, Fairbanks, AK 99709  
 Chevron PM: Stacie Hartung-Frederick Lead Consultant: BB&L  
 Consultant/Office: Seattle, WA  
 Consultant Prj. Mgr.: Rebecca Andresen  
 Consultant Phone #: 206-325-5254 Fax #: 206-325-8218  
 Sampler: Julie Ahearn, OASIS Environmental  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Matrix		Analyses Requested																		
Soil	Water	Oil	Air	Total Number of Containers	Preservation Codes															
					BTEX + MTBE	8021	8260	Naphth	H	H										
	<input type="checkbox"/> Potable <input checked="" type="checkbox"/> NPDES				<input checked="" type="checkbox"/> 8260	<input checked="" type="checkbox"/> 8021	<input type="checkbox"/> 8260	<input type="checkbox"/> Naphth	<input checked="" type="checkbox"/> H	<input checked="" type="checkbox"/> H										

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>   O = Other

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

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8021	8260	Naphth	H	H							
GW-1B-W-060329	3/29/06	1515	X		X	X			3	X	X			X	X							
GW-1B-WD-060329	3/29/06	1530	X		X	X			3	X	X			X	X							
GW-2-W-060329	3/29/06	1535	X		X	X			3	X	X			X	X							
MW-304D-W-060329	3/29/06	1545	X		X	X			3	X	X			X	X							
MW-304S-W-060329	3/29/06	1615	X		X	X			3	X	X			X	X							
MW-302D-W-060329	3/29/06	1620	X		X	X			3	X	X			X	X							
MW-302S-W-060329	3/29/06	1730	X		X	X			3	X	X			X	X							
MW-301D-W-060329	3/29/06	1750	X		X	X			3	X	X			X	X							
MW-301S-W-060329	3/29/06	1800	X		X	X			3	X	X			X	X							
MW-211-W-060329	3/29/06	1845	X		X	X			3	X	X			X	X							
G-1R-W-060330	3/30/06	1315	X		X	X			3	X	X			X	X							
G-1R-WD-060330	3/30/06	1330	X		X	X			3	X	X			X	X							
MW-303S-W-060330	3/30/06	1030	X		X	X			3	X	X			X	X							

**Comments / Remarks**

**Turnaround Time Requested (TAT) (please circle)**

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

Relinquished by: [Signature]      Date: 3-7-06      Time: 1300

Relinquished by: [Signature]      Date: 3/31/06      Time: 1100

Received by: [Signature]      Date: 3/9/06      Time: 1500

Received by: \_\_\_\_\_      Date: \_\_\_\_\_      Time: \_\_\_\_\_

**Data Package Options (please circle if required)**

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

Relinquished by Commercial Carrier: 2 Coolers

UPS      FedEx      Other: 3.9 & 2.1L

Temperature Upon Receipt \_\_\_\_\_ °C

Received by: [Signature]      Date: 7/3/06      Time: 0950

Custody Seals Intact?      Yes      No

# Chevron Generic Analysis Request/Chain of Custody



Page 2 of 2

Acct. #: 11964 For Lancaster Laboratories use only Sample #: 4742143-61 SCR#: \_\_\_\_\_

Group# 984016

Facility #: 211081-OML  
 Site Address: 4103 Geist Rd, Fairbanks, AK 99709  
 Chevron PM: Stacie Hartung-French Lead Consultant: BB&L  
 Consultant/Office: Seattle, WA  
 Consultant Prj. Mgr.: Rebecca Andresen  
 Consultant Phone #: 206-325-5254 Fax #: 206-325-8218  
 Sampler: Julie Ahern, OASIS Environmental  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Matrix		Analyses Requested												Preservative Codes			
		Preservation Codes												Preservative Codes			
Soil	Water	Oil	Air	Total Number of Containers	H	H	H	T			H	H		N	H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other		
					BTEX + MTBE	8260	8260	8260	8260	8260	8260	8260	8260	8260			8260

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers
MW-305-W-060330	3/30/06	1130	X			X			3
G-2-W-060330	3/30/06	1230	X			X			3
G-7-W-060330	3/30/06	1415	X			X			12
G-5-W-060330	3/30/06	1530	X			X			13
Waste Water-W-060330	3/30/06	1730		X	X	X			6
QA-T-060330	3/30/06	0800	X			X			5
GW-2-WD-060329	3/29/06	1540	X			X			3

- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation**
- Confirm MTBE + Naphthalene
- Confirm highest hit by 8260
- Confirm all hits by 8260
- Run \_\_\_ oxy's on highest hit
- Run \_\_\_ oxy's on all hits

**Comments / Remarks**

Do NOT ANALYZE

**Turnaround Time Requested (TAT) (please circle)**

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

Relinquished by:	Date: <u>3/31/06</u>	Time: <u>1100</u>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

**Data Package Options (please circle if required)**

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

Relinquished by Commercial Carrier: 2 coolers  
 UPS      FedEx      Other: 3,942.10

Temperature Upon Receipt \_\_\_\_\_ °C

Received by:

Custody Seals Intact?      Yes      No

Date: 4/3/06      Time: 0950

## Lancaster Laboratories Explanation of Symbols and Abbreviations

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

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>Cal</b>	(diet) calories	<b>lb.</b>	pound(s)
<b>meq</b>	milliequivalents	<b>kg</b>	kilogram(s)
<b>g</b>	gram(s)	<b>mg</b>	milligram(s)
<b>ug</b>	microgram(s)	<b>l</b>	liter(s)
<b>ml</b>	milliliter(s)	<b>ul</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>fib &gt;5 um/ml</b>	fibers greater than 5 microns in length per ml
<b>&lt;</b>	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.		
<b>&gt;</b>	greater than		
<b>ppm</b>	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.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

### Organic Qualifiers

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

### Inorganic Qualifiers

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

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

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

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

**ATTACHMENT 4**  
**LABORATORY ANALYTICAL REPORTS:**  
**MONTHLY UAF SAMPLING RESULTS**

First Quarterly Groundwater Monitoring Report 2006  
Former Texaco Service Station 21-1081  
4103 Geist Road  
Fairbanks, Alaska  
May 23, 2006



Analytica International, Inc. - Fairbanks  
 3330 Industrial Avenue  
 Fairbanks, AK 99701  
 Phone: 907-456-3116  
 Fax: 907-456-3125

SECOR INTERNATIONAL INC  
 Attn: Julie Ahern / Sean Coyle  
 3017 Kilgore Rd.; Suite 100  
 Rancho Cordova, CA 95670  
 916-861-0400  
 Fax: 916-861-0430

Report Date: 1/25/2006  
 Receipt Date: 1/11/2006  
 Sample Date: 1/11/2006  
 Sample Time: 11:15:00AM  
 Collected By: JA

Client Sample ID: **Influent-W-060111**  
 Client Project: UAF 211081-0ML  
 Location:  
 Sample Matrix: Aqueous  
 COC #: 49024  
 PWS#: 310683  
 Comments: Results submitted to ADEC

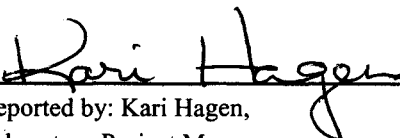
Flag Definitions:  
 MRL = Method Reporting Limit  
 MCL = Maximum Contaminant Limit  
 B = Present also in Method Blank  
 H = Exceeds Regulatory Limit  
 M = Matrix Interference  
 J = Estimated Value  
 D = Lost to Dilution  
 \*\* = RL higher than MCL; target not detected

Sample Comment: Pumping Well: GW-1B, Flow Rate: 142gpm, Totalizer: 166,124,200

Lab#: F0601131-01A

**Analysis Method**

Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
602 (Aqueous) - BTEX & Chlorobenzenes						<i>Test was conducted by: Analytica - Thornton</i>			
1,2-Dichlorobenzene	<MRL	ug/L		1.0	<b>600</b>		1/16/2006	1/17/2006	MB
1,3-Dichlorobenzene	<MRL	ug/L		1.0			1/16/2006	1/17/2006	MB
1,4-Dichlorobenzene	<MRL	ug/L		1.0	<b>75</b>		1/16/2006	1/17/2006	MB
Benzene	<MRL	ug/L		1.0	<b>5.0</b>		1/16/2006	1/17/2006	MB
Chlorobenzene	<MRL	ug/L		1.0	<b>100</b>		1/16/2006	1/17/2006	MB
Ethylbenzene	<MRL	ug/L		1.0	<b>700</b>		1/16/2006	1/17/2006	MB
Toluene	<MRL	ug/L		1.0	<b>1000</b>		1/16/2006	1/17/2006	MB
Xylenes, Total	<MRL	ug/L		2.0	<b>10000</b>		1/16/2006	1/17/2006	MB
<b>Surrogate Recoveries</b>		<b>% Rec</b>	<b>Limits</b>						
p-Bromofluorobenzene	<b>89.9</b>	( 80-120)		0.50			1/16/2006	1/17/2006	MB

  
 Reported by: Kari Hagen,  
 Laboratory Project Manager



Analytica International, Inc. - Fairbanks  
 3330 Industrial Avenue  
 Fairbanks, AK 99701  
 Phone: 907-456-3116  
 Fax: 907-456-3125

SECOR INTERNATIONAL INC  
 Attn: Julie Ahern / Sean Coyle  
 3017 Kilgore Rd.; Suite 100  
 Rancho Cordova, CA 95670  
 916-861-0400  
 Fax: 916-861-0430

Report Date: 1/25/2006  
 Receipt Date: 1/11/2006  
 Sample Date: 1/11/2006  
 Sample Time: 8:00:00AM  
 Collected By: JA

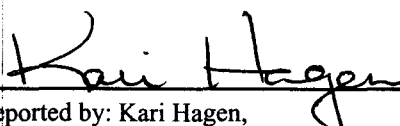
Client Sample ID: **QA-T-060111**  
 Client Project: UAF 211081-OML  
 Location:  
 Sample Matrix: Aqueous  
 COC #: 49024  
 PWS#: 310683  
 Comments: Results submitted to ADEC

Flag Definitions:  
 MRL = Method Reporting Limit  
 MCL = Maximum Contaminant Limit  
 B = Present also in Method Blank  
 H = Exceeds Regulatory Limit  
 M = Matrix Interference  
 J = Estimated Value  
 D = Lost to Dilution  
 \*\* = RL higher than MCL; target not detected

Sample Comment:

Lab#: F0601131-02A

Analysis Method	Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
602 (Aqueous) - BTEX & Chlorobenzenes						<i>Test was conducted by: Analytica - Thornton</i>				
	1,2-Dichlorobenzene	<MRL	ug/L		1.0	<b>600</b>		1/16/2006	1/17/2006	MB
	1,3-Dichlorobenzene	<MRL	ug/L		1.0			1/16/2006	1/17/2006	MB
	1,4-Dichlorobenzene	<MRL	ug/L		1.0	<b>75</b>		1/16/2006	1/17/2006	MB
	Benzene	<MRL	ug/L		1.0	<b>5.0</b>		1/16/2006	1/17/2006	MB
	Chlorobenzene	<MRL	ug/L		1.0	<b>100</b>		1/16/2006	1/17/2006	MB
	Ethylbenzene	<MRL	ug/L		1.0	<b>700</b>		1/16/2006	1/17/2006	MB
	Toluene	<MRL	ug/L		1.0	<b>1000</b>		1/16/2006	1/17/2006	MB
	Xylenes, Total	<MRL	ug/L		2.0	<b>10000</b>		1/16/2006	1/17/2006	MB
	<u>Surrogate Recoveries</u>	<u>% Rec</u>	<u>Limits</u>							
	p-Bromofluorobenzene	<b>89.4</b>	( 80-120)		0.50			1/16/2006	1/17/2006	MB

  
 Reported by: Kari Hagen,  
 Laboratory Project Manager



# Analytica Chain of Custody Form

5438 Shaune Drive Juneau, AK 99801 (907) 780-8888 (907) 780-8870 fax  
 5761 Silverado Way. # N Anchorage, AK 99518 (907) 258-2155 (907) 258-8634 fax  
 3330 Industrial Ave. Fairbanks, AK 99701 (907) 456-3116 (907) 456-3125 fax  
 12189 Pennsylvania St. Thornton, CO 80241 (303) 469-8866 (303) 469-5254 fax

Chain of Custody No: **49024**

Client Name & Address: <b>SECOR International, Inc. 3017 Kilgore Rd, Suite 100 Rancho Cordova, CA 95670</b>		Public Water System (PWS) ID#: <b>310683</b>			Quote ID:		LGN: <b>F0601131</b>									
Report to: <b>Sean Coyle/Julie Ahern</b>		Project Name: <b>211081-OML UAF Water Treatment Plant</b>			Account #:		Cash: <input type="checkbox"/> Credit Card: <input type="checkbox"/>									
Turnaround Time for Results (TAT)		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Expedited (< 10 days, prior authorization required) <small>(Please specify due date below; add'l charges may apply)</small>			Invoice to Name & Address: <b>SECOR</b>											
Phone No: <b>916-861-0400/907-458-8270</b> Fax No: <b>916-861-0430/907-374-4777</b> E-mail: <b>sc@secor.com / julie@oasisenviro.com</b>									Requested Due Date for Results:							
Special Instructions/Comments: <b>Pumping well: GW-1B Flow Rate: 142 gpm, Totalizer: 166,124,200</b>				P.O. or Contract No:												
Kit Prep/Shipping Charge: \$		Requested Analysis/Method														
Client Sample Identification / Location		Date Sampled	Time Sampled	Matrix (S-DW-WW-Other)	No. of Containers	<b>EPA 602</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Field Preserved	Field Filtered	MS/MSD ?
		<b>Influent-W-060111</b>	<b>1/11/06</b>	<b>1115</b>	<b>W</b>	<b>3</b>	<b>X</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>QA-T-060111</b>		<b>1/11/06</b>	<b>0800</b>	<b>W</b>	<b>3</b>	<b>X</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Relinquished by: <b>[Signature]</b>		Date: <b>1/11/06</b>	Time: <b>11:50</b>	Received by: <b>[Signature]</b>	Date: <b>1/11/06</b>	Time: <b>12:00</b>	Condition of Custody Seal?: <u>THO</u> <u>ANC</u> <u>JNU</u> <u>FBKS</u> Initialed By: _____ Temp/Loc: _____ Thermo ID#: _____ Shipped Via: _____ <b>Hand</b>									
Relinquished by:		Date:	Time:	Received by:	Date:	Time:										
Relinquished by:		Date:	Time:	Received by:	Date:	Time:										
Relinquished by:		Date:	Time:	Received by:	Date:	Time:										
Name of Sampler: (printed)		<b>Julie Ahern, OASIS</b>														



Analytica International, Inc. - Fairbanks  
 3330 Industrial Avenue  
 Fairbanks, AK 99701  
 Phone: 907-456-3116  
 Fax: 907-456-3125

SECOR INTERNATIONAL INC  
 Attn: Julie Ahern / Sean Coyle  
 3017 Kilgore Rd.; Suite 100  
 Rancho Cordova, CA 95670  
 916-861-0400  
 Fax: 916-861-0430

Report Date: 2/14/2006  
 Receipt Date: 2/1/2006  
 Sample Date: 2/1/2006  
 Sample Time: 12:00:00PM  
 Collected By:

Client Sample ID: **Influent-W-060201**  
 Client Project: UAF 211081-OML  
 Location:  
 Sample Matrix: Aqueous  
 COC #: 50733  
 PWS#: 310683  
 Comments: Results submitted to ADEC

Flag Definitions:  
 MRL = Method Reporting Limit  
 MCL = Maximum Contaminant Limit  
 B = Present also in Method Blank  
 H = Exceeds Regulatory Limit  
 M = Matrix Interference  
 J = Estimated Value  
 D = Lost to Dilution  
 \*\* = RL higher than MCL; target not detected

Lab#: F0602006-01A

Sample Comment: Pumping Well: GW-1B  
 Flow Rate: 168gpm, Totalizer: 171,466,400

Analysis Method	Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
602 (Aqueous) - BTEX & Chlorobenzenes						<i>Test was conducted by: Analytica - Thornton</i>				
	1,2-Dichlorobenzene	<MRL	ug/L		1.0	600		2/8/2006	2/8/2006	MB
	1,3-Dichlorobenzene	<MRL	ug/L		1.0			2/8/2006	2/8/2006	MB
	1,4-Dichlorobenzene	<MRL	ug/L		1.0	75		2/8/2006	2/8/2006	MB
	Benzene	1.1	ug/L		1.0	5.0		2/8/2006	2/8/2006	MB
	Chlorobenzene	<MRL	ug/L		1.0	100		2/8/2006	2/8/2006	MB
	Ethylbenzene	<MRL	ug/L		1.0	700		2/8/2006	2/8/2006	MB
	Toluene	<MRL	ug/L		1.0	1000		2/8/2006	2/8/2006	MB
	Xylenes, Total	<MRL	ug/L		2.0	10000		2/8/2006	2/8/2006	MB
	<u>Surrogate Recoveries</u>	<u>% Rec</u>	<u>Limits</u>							
	p-Bromofluorobenzene	91.6	( 80-120)		0.50			2/8/2006	2/8/2006	MB

*Angela Elmore*

Reported by: Angela Elmore,  
 Laboratory Project Manager





Analytica International, Inc. - Fairbanks  
 3330 Industrial Avenue  
 Fairbanks, AK 99701  
 Phone: 907-456-3116  
 Fax: 907-456-3125

SECOR INTERNATIONAL INC  
 Attn: Julie Ahern / Sean Coyle  
 3017 Kilgore Rd.; Suite 100  
 Rancho Cordova, CA 95670  
 916-861-0400  
 Fax: 916-861-0430

Report Date: 2/14/2006  
 Receipt Date: 2/1/2006  
 Sample Date: 2/1/2006  
 Sample Time: 8:00:00AM  
 Collected By:

Client Sample ID: **QA-T-060201**  
 Client Project: UAF 211081-0ML  
 Location:  
 Sample Matrix: Aqueous  
 COC #: 50733  
 PWS#: 310683  
 Comments: Results submitted to ADEC

Flag Definitions:  
 MRL = Method Reporting Limit  
 MCL = Maximum Contaminant Limit  
 B = Present also in Method Blank  
 H = Exceeds Regulatory Limit  
 M = Matrix Interference  
 J = Estimated Value  
 D = Lost to Dilution  
 \*\* = RL higher than MCL; target not detected

Lab#: F0602006-02A

**Analysis Method**

Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
602 (Aqueous) - BTEX & Chlorobenzenes					<i>Test was conducted by: Analytica - Thornton</i>				
1,2-Dichlorobenzene	<MRL	ug/L		1.0	<b>600</b>		2/8/2006	2/8/2006	MB
1,3-Dichlorobenzene	<MRL	ug/L		1.0			2/8/2006	2/8/2006	MB
1,4-Dichlorobenzene	<MRL	ug/L		1.0	<b>75</b>		2/8/2006	2/8/2006	MB
Benzene	<MRL	ug/L		1.0	<b>5.0</b>		2/8/2006	2/8/2006	MB
Chlorobenzene	<MRL	ug/L		1.0	<b>100</b>		2/8/2006	2/8/2006	MB
Ethylbenzene	<MRL	ug/L		1.0	<b>700</b>		2/8/2006	2/8/2006	MB
Toluene	<MRL	ug/L		1.0	<b>1000</b>		2/8/2006	2/8/2006	MB
Xylenes, Total	<MRL	ug/L		2.0	<b>10000</b>		2/8/2006	2/8/2006	MB
<b><u>Surrogate Recoveries</u></b>	<b>% Rec</b>	<b>Limits</b>							
p-Bromofluorobenzene	<b>96.3</b>	( 80-120)		0.50			2/8/2006	2/8/2006	MB

*Angela Elmore*

Reported by: Angela Elmore,  
 Laboratory Project Manager



# Analytica Chain of Custody Form

5438 Shaune Drive Juneau, AK 99801 (907) 780-8668 (907) 780-8870 fax  
 5761 Silversado Way. # N Anchorage, AK 99518 (907) 258-2155 (907) 258-8834 fax  
 3330 Industrial Ave. Fairbanks, AK 99701 (907) 456-3116 (907) 456-3125 fax  
 12189 Pennsylvania St. Thornton, CO 80241 (303) 469-8868 (303) 469-5254 fax

Chain of Custody No: **50733**

<b>Client Name &amp; Address:</b> SECOR International, Inc. 3017 Kilgore Rd, Suite 100 Rancho Cordova, CA 95670		<b>Public Water System (PWS) ID#:</b> Project Name: <b>211081-OML</b> <b>UAF Water Treatment Plant</b>		Quote ID: _____ LGN: <b>FO602006</b>	
<b>Report to:</b> Sean Coyle/Julie Ahern		<b>Turnaround Time for Results (TAT)</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Expedited (< 10 days, prior authorization required) <small>(please specify due date below; add'l charges may apply)</small>		<b>Invoice to Name &amp; Address:</b> <b>SECOR</b>	
<b>Phone No:</b> 916-861-0400/907-458-8270 <b>Fax No:</b> 916-861-0430/907-374-4777		<b>Requested Due Date for Results:</b> _____		<b>P.O. or Contract No:</b> _____	
<b>E-mail:</b> scoyle@secor.com/julie@		<b>Special Instructions/Comments:</b> oasisenviron.com Pumping well: GW-1B Flow Rate: 168 gpm, Totalizer: 171,466,400			

Client Sample Identification / Location	Date Sampled	Time Sampled	Matrix (S-DW-WW-Other)	No. of Containers	Requested Analysis/Method															
					1	2	3	4	5	6	7	8	9	10	11	12				
Influent-W-060201	2/1/06	1200	W	4	X															
QA-T-060201	2/1/06	0800	W	2	X															

Relinquished by: <i>[Signature]</i>	Date: 2/1/06	Time: 1230	Received by: A. Elmere	Date: 2/1/06	Time: 1220	Condition of Custody Seal?:	THO	ANC	JNU	FBKS
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Initialed By:				
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Temp/Loc:				1.0
Name of Sampler: (printed) Julie Ahern, OASIS Environmental						Thermo ID#:				31
						Shipped Via:				hand



Analytica International, Inc. - Fairbanks  
3330 Industrial Avenue  
Fairbanks, AK 99701  
Phone: 907-456-3116  
Fax: 907-456-3125

BB & L  
Attn: Rebecca Andresen  
2300 Eastlake Ave. East  
Suite 100  
Seattle, WA 98102  
206-325-5254  
Fax: 206-325-8218

Report Date: 3/20/2006  
Receipt Date: 3/6/2006  
Sample Date: 3/6/2006  
Sample Time: 2:45:00PM  
Collected By: JA

Client Sample ID: **Influent-W-060306**  
Client Project: UAF 211081-0ML  
Location:  
Sample Matrix: Aqueous  
COC #: 51032  
PWS#: 310683  
Comments: Results submitted to ADEC

Flag Definitions:  
MRL = Method Reporting Limit  
MCL = Maximum Contaminant Limit  
B = Present also in Method Blank  
H = Exceeds Regulatory Limit  
M = Matrix Interference  
J = Estimated Value  
D = Lost to Dilution  
\*\* = RL higher than MCL; target not detected

Lab#: F0603115-01A

*Sample Comment: Pumping Well: GW-1B  
Flow Rate: 175 gpm  
Totalizer: 180,387,200 gal*

Analysis Method	Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
602 (Aqueous) - BTEX & Chlorobenzenes						<i>Test was conducted by: Analytica - Thornton</i>				
	1,2-Dichlorobenzene	<MRL	ug/L		1.0	<b>600</b>		3/15/2006	3/16/2006	MB
	1,3-Dichlorobenzene	<MRL	ug/L		1.0			3/15/2006	3/16/2006	MB
	1,4-Dichlorobenzene	<MRL	ug/L		1.0	<b>75</b>		3/15/2006	3/16/2006	MB
	Benzene	1.4	ug/L		1.0	<b>5.0</b>		3/15/2006	3/16/2006	MB
	Chlorobenzene	<MRL	ug/L		1.0	<b>100</b>		3/15/2006	3/16/2006	MB
	Ethylbenzene	<MRL	ug/L		1.0	<b>700</b>		3/15/2006	3/16/2006	MB
	Toluene	<MRL	ug/L		1.0	<b>1000</b>		3/15/2006	3/16/2006	MB
	Xylenes, Total	<MRL	ug/L		2.0	<b>10000</b>		3/15/2006	3/16/2006	MB
<u>Surrogate Recoveries</u>		<u>% Rec</u>	<u>Limits</u>							
	p-Bromofluorobenzene	105	( 80-120)		0.50			3/15/2006	3/16/2006	MB

*Angela Elmore*  
Reported by: Angela Elmore,  
Laboratory Project Manager



Analytica International, Inc. - Fairbanks  
 3330 Industrial Avenue  
 Fairbanks, AK 99701  
 Phone: 907-456-3116  
 Fax: 907-456-3125

BB & L  
 Attn: Rebecca Andresen  
 2300 Eastlake Ave. East  
 Suite 100  
 Seattle, WA 98102  
 206-325-5254  
 Fax: 206-325-8218

Report Date: 3/20/2006  
 Receipt Date: 3/6/2006  
 Sample Date: 3/6/2006  
 Sample Time: 3:00:00PM  
 Collected By: JA

Client Sample ID: **Effluent-W-060306**  
 Client Project: UAF 211081-0ML  
 Location:  
 Sample Matrix: Aqueous  
 COC #: 51032  
 PWS#: 310683  
 Comments: Results submitted to ADEC

Flag Definitions:  
 MRL = Method Reporting Limit  
 MCL = Maximum Contaminant Limit  
 B = Present also in Method Blank  
 H = Exceeds Regulatory Limit  
 M = Matrix Interference  
 J = Estimated Value  
 D = Lost to Dilution  
 \*\* = RL higher than MCL; target not detected

Lab#: F0603115-02A

*Sample Comment: Pumping Well: GW-1B  
 Flow Rate: 175 gpm  
 Totalizer: 180,387,200 gal*

Analysis Method	Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
602 (Aqueous) - BTEX & Chlorobenzenes						<i>Test was conducted by: Analytica - Thornton</i>				
	1,2-Dichlorobenzene	<MRL	ug/L		1.0	600		3/15/2006	3/16/2006	MB
	1,3-Dichlorobenzene	<MRL	ug/L		1.0			3/15/2006	3/16/2006	MB
	1,4-Dichlorobenzene	<MRL	ug/L		1.0	75		3/15/2006	3/16/2006	MB
	Benzene	<MRL	ug/L		1.0	5.0		3/15/2006	3/16/2006	MB
	Chlorobenzene	<MRL	ug/L		1.0	100		3/15/2006	3/16/2006	MB
	Ethylbenzene	<MRL	ug/L		1.0	700		3/15/2006	3/16/2006	MB
	Toluene	<MRL	ug/L		1.0	1000		3/15/2006	3/16/2006	MB
	Xylenes, Total	<MRL	ug/L		2.0	10000		3/15/2006	3/16/2006	MB
	<u>Surrogate Recoveries</u>	<u>% Rec</u>	<u>Limits</u>							
	p-Bromofluorobenzene	105	( 80-120)		0.50			3/15/2006	3/16/2006	MB

*Angela Elmore*

Reported by: Angela Elmore,  
 Laboratory Project Manager



Analytica International, Inc. - Fairbanks  
 3330 Industrial Avenue  
 Fairbanks, AK 99701  
 Phone: 907-456-3116  
 Fax: 907-456-3125

Report Date: 3/20/2006  
 Receipt Date: 3/6/2006  
 Sample Date: 3/6/2006  
 Sample Time: 8:00:00AM  
 Collected By: JA

Flag Definitions:  
 MRL = Method Reporting Limit  
 MCL = Maximum Contaminant Limit  
 B = Present also in Method Blank  
 H = Exceeds Regulatory Limit  
 M = Matrix Interference  
 J = Estimated Value  
 D = Lost to Dilution  
 \*\* = RL higher than MCL; target not detected

BB & L  
 Attn: Rebecca Andresen  
 2300 Eastlake Ave. East  
 Suite 100  
 Seattle, WA 98102  
 206-325-5254  
 Fax: 206-325-8218

Client Sample ID: **QA-T-060306**  
 Client Project: UAF 211081-OML  
 Location:  
 Sample Matrix: Aqueous  
 COC #: 51032  
 PWS#: 310683  
 Comments: Results submitted to ADEC

Lab#: F0603115-03A

<b>Analysis Method</b>						<b>Prep</b>	<b>Prep</b>	<b>Analysis</b>	
<b>Parameter</b>	<b>Result</b>	<b>Units</b>	<b>Flags</b>	<b>MRL</b>	<b>MCL</b>	<b>Method</b>	<b>Date</b>	<b>Date</b>	<b>Analyst</b>
<b>602 (Aqueous) - BTEX &amp; Chlorobenzenes</b>					<i>Test was conducted by: Analytica - Thornton</i>				
1,2-Dichlorobenzene	<MRL	ug/L		1.0	<b>600</b>		3/15/2006	3/16/2006	MB
1,3-Dichlorobenzene	<MRL	ug/L		1.0			3/15/2006	3/16/2006	MB
1,4-Dichlorobenzene	<MRL	ug/L		1.0	<b>75</b>		3/15/2006	3/16/2006	MB
Benzene	<MRL	ug/L		1.0	<b>5.0</b>		3/15/2006	3/16/2006	MB
Chlorobenzene	<MRL	ug/L		1.0	<b>100</b>		3/15/2006	3/16/2006	MB
Ethylbenzene	<MRL	ug/L		1.0	<b>700</b>		3/15/2006	3/16/2006	MB
Toluene	<MRL	ug/L		1.0	<b>1000</b>		3/15/2006	3/16/2006	MB
Xylenes, Total	<MRL	ug/L		2.0	<b>10000</b>		3/15/2006	3/16/2006	MB
<b><u>Surrogate Recoveries</u></b>		<b>% Rec</b>	<b>Limits</b>						
p-Bromofluorobenzene	94.3	( 80-120)		0.50			3/15/2006	3/16/2006	MB

*Angela Elmore*  
 Reported by: Angela Elmore,  
 Laboratory Project Manager



# Analytica Chain of Custody Form

5438 Shaune Drive Juneau, AK 99801 (907) 780-8868 (907) 780-6870 fax  
 5761 Silverado Way. # N Anchorage, AK 99518 (907) 258-2155 (907) 258-6834 fax  
 3330 Industrial Ave. Fairbanks, AK 99701 (907) 456-3116 (907) 456-3125 fax  
 12189 Pennsylvania St. Thornton, CO 80241 (303) 469-8866 (303) 469-3254 fax

Chain of Custody No: **51032**

Client Name & Address: BB & L 2300 Eastlake Ave East, Suite 100 Seattle, WA 98102		Public Water System (PWS) ID#: <b>310683</b>		Quote ID:		LGN: <b>F0603115</b>	
Report to: <b>Rebecca Andresen / Julie Ahern</b>		Project Name: <b>211081-OML</b>		Account #:		Cash <input type="checkbox"/> Credit Card <input type="checkbox"/>	
Phone No: <b>206-325-5254 / 206-458-8270</b>		Turnaround Time for Results (TAT) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Expedited (< 10 days, prior authorization required) <small>(please specify due date below; add'l charges may apply)</small>		Invoice to Name & Address: <b>BB &amp; L</b>			
Fax No: <b>206-325-8218 / 206-374-4777</b>		Requested Due Date for Results:		P.O. or Contract No:			
E-mail: <b>rk@bbl-inc.com / julie@oasisenviro.com</b>		Special Instructions/Comments: Pumping Well: <b>GW-18</b> Flow Rate: <b>175 gpm, Totalizer: 180,387,200 gal</b>					

Kit Prep/Shipping Charge: \$	Date Sampled	Time Sampled	Matrix (S-DW-WW-Other)	No. of Containers	Requested Analysis/Method														
					1	2	3	4	5	6	7	8	9	10	Field Preserved	Field Filtered	MS/MSD ?		
	Influent-W-060306	3/6/06	1445	W	4	X													
	Effluent-W-060306	3/6/06	1500	W	4	X													
	QA-T-060306	3/6/06	0800	W	2	X													

Relinquished by:	Date	Time	Received by:	Date	Time	Condition of Custody Seal?:	THO	ANC	JNU	FBKS
<i>[Signature]</i>	3/6/06	1545	J. Roberts	3/6/06	1545					none
Relinquished by:	Date	Time	Received by:	Date	Time	Initialed By:				na
						Temp/Loc:				6.0
						Thermo ID#:				151711
Name of Sampler: (printed)	Julie Ahern (OASIS)					Shipped Via:				hand