Semi-Annual Groundwater Monitoring Report
Second Semi-Annual 2004

Former Texaco 21-1079
1501 Cushman Street
Fairbanks, Alaska

187-003-2-1

Prepared for

Chevron Environmental Management Company

Prepared by

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

December 16, 2004

Carl Benson
Senior Scientist (OASIS Environmental, Inc)

Date: December 16, 2004
Event: 2nd Semi-Annual 2004

FORMER TEXACO SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility No.:	21-1079	Address:	1501 Cushman Street, Fairbanks, Alaska (Figure 1)
CHEVRON Project Manager:			Robert (Bob) Cochran
Consulting Co./Contact Person:			SECOR International Incorporated/ David Weigner
Consultant Project No.:			77CH.21079.02
Primary Agency/Regulatory ID No.:			Alaska Department of Environmental Conservation
			Attention: Janice Wiegers

WORK PERFORMED THIS EVENT (Second Semi-Annual – 2004):

1. Conducted semi-annual groundwater monitoring and sampling.
2. Abandoned wells MW-3, MW-12, MW-14, MW-15, and MW-16. Reported field activities to David Weigner on October 8, 2004.
3. Prepared and submitted second semi-annual groundwater monitoring report.

WORK PROPOSED FOR NEXT EVENT (First Semi-Annual – 2005):

1. Conduct semi-annual groundwater monitoring and sampling.
2. Prepare and submit semi-annual groundwater monitoring report.

SEMI-ANNUAL RESULTS SUMMARY

Current Phase of Project:	Monitoring and Sampling
Frequency of Groundwater Sampling:	Semi-Annual
Frequency of Groundwater Monitoring:	Semi-Annual
Is Free Product (FP) Present Onsite:	No
FP Recovered this Event:	NA
Cumulative FP Recovered to Date:	NA
Current Remediation Techniques:	NA
Approximate Depth to Groundwater	13.45 to 14.06 feet
Groundwater Gradient:	Northwest @ 0.003 ft/ft

DISCUSSION:

On September 20, 2004, Oasis Environmental (Oasis) of Fairbanks, Alaska, conducted the second semi-annual groundwater monitoring and sampling event of 2004 (Figure 1). Eight wells were sampled during this event (Figure 2) and one duplicate sample (Duplicate 1) was taken for quality assurance/quality control (QA/QC) purposes. See Table 1 for monitoring well sampling frequency. During the second semi-annual event, groundwater flow was towards the northwest at an approximate gradient of 0.003 ft/ft (Figure 2). This gradient is consistent with historical data. Due to possible well heave and recent monument replacements, well gauging data from MW-6 was not used in the development of the groundwater gradient. Field and laboratory procedures are summarized in Attachment 1. Groundwater sampling field data sheets are included in Attachment 2. Laboratory analytical reports and chain-of-custody documentation are presented in Attachment 3.

Groundwater samples were analyzed for gasoline range organics (GRO) and benzene, toluene, ethylbenzene, and total xylenes (BTEX). GRO was detected in all eight of the samples collected at concentrations ranging from 390 micrograms per liter (μg/l) in the sample from MW-13 to 27,000 μg/l in the sample from MW-9. Benzene was detected in three of the eight samples collected at concentrations ranging from 5.1 μg/l in the sample from MW-2, to 120 μg/l in the sample from MW-13. Analytical results for benzene had an elevated baseline during quantitation in the groundwater samples collected from monitoring wells MW-1, MW-4, MW-5, MW-9, and MW-10. Toluene was detected in four of the eight samples collected at concentrations ranging from 4.2 μg/L in the sample from MW-5, to 120 μg/L in the sample from MW-10. Analytical results for toluene had an elevated baseline during quantitation in the groundwater samples collected from monitoring wells MW-4, MW-9, and MW-10. Ethylbenzene was detected in all eight of the samples collected at concentrations ranging from 1.0 μg/L in the sample from MW-13, to 1,100 μg/L in the sample from MW-9. Analytical results for ethylbenzene had an elevated baseline during quantitation in the groundwater samples collected from monitoring wells MW-4, MW-5, MW-9, and MW-10. Xylene (total) was detected in all eight of samples at concentrations ranging from 8.2 μg/L in the sample from MW-13, to 5,900 μg/L in the sample from MW-9. Analytical results for total xylenes had an elevated baseline during quantitation in the groundwater samples collected from monitoring wells MW-4, MW-5, MW-9, and MW-10. GRO and BTEX concentrations are presented in Figure 3. Groundwater analytical and elevation data are summarized in Table 2.

ATTACHMENTS:

- Table 1 – Groundwater Monitoring Schedule
- Table 2 – Groundwater Elevation and Analytical Data
- Figure 1 – Site Location Map
- Figure 2 – Site Plan With Groundwater Elevations and Contours, September 20, 2004
- Figure 3 – Site Plan With Chemical Concentration Data, September 20, 2004
- Attachment 1 - Field and Laboratory Procedures
- Attachment 2 - Field Data Sheets
- Attachment 3 - Laboratory Analytical Reports and Chain-of-Custody Documentation

TABLES

TABLE 1
Monitoring Well Sampling Frequency

Former Texaco 21-1079
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Fairbanks, Alaska

Well ID	Semi-Annual	Annual
MW-1	X	
MW-2	X	
MW-3		X
MW-4	X	
MW-5	X	
MW-6	X	
MW-7		X
MW-8		X
MW-9	X	
MW-10	X	
MW-11		X
MW-12	Removed from Monitoring and Sampling Program	
MW-13	X	
MW-14	Removed from Monitoring and Sampling Program	
MW-15	Removed from Monitoring and Sampling Program	
MW-16	Removed from Monitoring and Sampling Program	
SW MW-1	Removed from Monitoring and Sampling Program	

TABLE 2
Groundwater Elevation and Analytical Data

Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-1	06/20/94	440.92	15.25	425.67	49,000	--	750	11,000	1,800	10,000	--
	09/27/94		14.83	426.09	52,000	--	810	11,700	2,700	13,400	--
	11/21/94		15.48	425.44	51,000	--	1,100	13,000	3,100	14,000	--
	03/29/95		16.13	424.79	49,000	--	540	14,000	2,400	10,000	--
	06/29/95	440.94	14.45	426.49	58,000	1.8	380	14,000	2,600	13,000	--
	09/18/95		13.12	427.82	24,000	--	55	3,700	1,300	6,900	--
	12/13/95		15.00	425.94	42,000	0.39	290	4,000	16,000	7,700	--
	03/08/96		16.10	424.84	110,000	1.1	620	26,000	3,200	16,000	--
	05/31/96		15.13	425.81	91,500	--	394	20,100	2,370	13,900	--
	09/19/96		15.18	425.76	59,400	--	135	9,700	1,700	10,300	--
	12/11/96	440.96	15.73	425.23	43,600	--	150	8,160	1,560	7,930	--
	03/13/97		--	--	--	--	--	--	--	--	--
	06/18/97		15.40	425.56	37,300	--	<25	3,530	1,490	6,910	--
	09/19/97		14.97	425.99	17,200	--	<25	1,700	919	5,300	--
	12/10/97		15.80	425.16	32,100	--	<50	2,770	1,860	9,460	--
	03/30/98		--	--	16,800	--	14.2	925	980	4,530	--
	03/30/98		16.54	424.42	9,340	--	<25	531	569	2,660	--
	06/08/98		15.94	425.02	7,790	--	<10	408	476	2,390	--
	09/16/98		14.32	426.64	12,200	--	15.3	356	593	3,200	--
	09/16/98		--	--	13,800	--	19.7	469	719	3,680	--
	12/28/98		15.61	425.35	14,300	--	<50	865	855	3,800	--
	12/28/98		--	--	16,300	--	25.2	987	979	4,290	--
	03/13/99		16.54	424.42	9,100	--	<25	351	751	3,260	--
	06/22/99		--	--	--	--	--	--	--	--	--
	09/28/99		14.92	426.04	8,900	--	<20	79	590	2,310	--
	12/15/99		15.84	425.12	8,830	--	8.88	139	505	2,110	--
	03/21/00		16.30	424.66	8,950	--	<10	107	346	1,470	--
	03/21/00		--	--	11,500	--	<5	91.7	340	1,440	--
	06/20/00		13.97	426.99	4,690	--	8.85	19	150	565	--
	09/13/00		12.99	427.97	3,840	--	<5	13.5	147	535	--
	09/13/00		--	--	5,960	--	<5	23	216	848	--
	12/13/00		14.79	426.17	6,290	--	<4.0	24.9	178	631	--
	12/13/00		--	--	5,140	--	<4.0	14.2	125	452	--
	03/20/01		15.64	425.32	6,390	--	<13.2	13.3	218	793	--
	03/20/01		--	--	6,690	--	<14.0	17.2	210	754	--
	06/20/01		14.76	426.20	4,160	--	5.16	6.13	194	756	--
	06/20/01		--	--	6,180	--	2.95	10.7	197	785	--
	09/18/01		14.03	426.93	4,880	--	7.26	7.18	189	706	--
	09/18/01		--	--	5,730	--	7.8	<5.00	186	627	--
	03/25/02		16.12	424.84	5,070	--	7.47	<5.00	151	692	--
	03/25/02[D]		--	--	5,310	--	5.28	<5.00	170	812	--
	09/15/02		13.02	427.94	4,530	--	3.69	0.738	81.3	424	--
	09/15/02[D]		--	--	4,030	--	4.19	<5.00	107	394	---
	04/10/03		15.55	425.41	4,800	--	<10	<2.0	72	330	--
	4/10/2003[D]		--	--	4,900	--	<20	<2.0	73	330	--
	09/05/03		12.56	428.40	2,600	--	<5	0.6	37	160	--
	9/5/2003[D]		--	--	2,900	--	<10	0.6	42	180	--
	03/03/04		15.85	425.11	3,600	--	<10	<2.0	46	220	--
	3/3/2004[D]		--	--	3,300	--	<20	<2.0	43	200	--
	09/20/04		**15.32**	**425.64**	**3,500**	**--**	**<10**	**<0.5**	**33**	**170**	**--**
	9/20/04[D]		**--**	**--**	**2,600**	**--**	**<10**	**<2**	**37**	**190**	**--**

TABLE 2
Groundwater Elevation and Analytical Data

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Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-2	06/22/94	439.45	13.61	425.84	37,000	--	11,000	9,300	1,200	4,900	--
	09/28/94		13.50	425.95	67,000	--	18,800	13,800	1,400	6,700	--
	11/21/94		14.07	425.38	140,000	--	38,000	33,000	4,000	14,000	--
	03/29/95		14.73	424.72	110,000	--	29,000	26,000	2,100	10,000	--
	06/29/95	439.42	13.08	426.34	42,000	--	8,300	8,100	1,100	4,700	--
	09/19/95		11.75	427.67	26,000	--	5,400	6,100	650	2,300	--
	12/13/95		13.60	425.82	170,000	--	24,000	29,000	1,300	7,500	--
	12/13/95		--	--	150,000	--	24,000	28,000	1,300	7,700	--
	03/08/96		14.70	424.72	91,000	--	18,000	14,000	1,000	5,500	--
	03/08/96		--	--	100,000	--	22,000	22,000	1,700	9,800	--
	06/01/96		13.72	425.70	83,900	--	17,100	14,400	1,030	4,970	--
	06/01/96		--	--	80,100	--	16,600	13,800	1,010	4,850	--
	09/18/96		13.79	425.63	12,400	--	1,260	1,250	132	925	--
	12/11/96		14.20	425.22	26,000	--	1,860	5,520	473	3,470	ND
	12/11/96		--	--	24,800	--	1,900	5,360	459	3,240	--
	03/13/97		14.59	424.83	741	--	78.8	159	9.54	134	--
	06/18/97		15.15	424.27	67	--	2.21	6.31	2.93	18.2	--
	06/18/97		--	--	65.2	--	2.66	7.51	2.45	16.2	--
	09/19/97		14.28	425.14	<500	--	<0.5	0.797	<0.5	1.45	--
	12/10/97		13.84	425.58	<500	--	0.529	0.801	1.02	4.72	3.63
	03/30/98		14.65	424.77	150	--	<0.5	6.84	7.28	53.6	1.05
	06/09/98		17.12	422.30	<500	--	<0.5	1.49	0.726	3.56	ND
	09/16/98		14.81	424.61	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/28/98		13.19	426.23	<500	--	<1.0	<1.0	<1.0	<2.0	--
	03/13/99		14.75	424.67	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/22/99		15.36	424.06	<500	--	2.03	<0.5	1.20	7.23	--
	09/28/99		14.29	425.13	63	--	3.14	0.887	4.83	4.90	--
	09/28/99		13.78	425.64	77	--	3.33	<0.5	5.44	4.85	--
	12/15/99		14.59	424.83	80.2	--	7.36	<0.5	2.86	4.51	--
	03/21/00		15.04	424.38	51.6	--	6.48	<0.5	1.48	2.13	--
	06/20/00		12.77	426.65	<800	--	1.89	<0.5	<0.5	3.02	--
	09/13/00		11.74	427.68	<500	--	1.69	<0.5	0.807	3.45	--
	12/13/00		13.59	425.83	1,080	--	5.94	<1.03	56.4	195	--
	03/20/01		14.39	425.03	427	--	5.07	<0.5	27.2	68.6	--
	06/20/01		13.58	425.84	147	--	2.03	<0.5	9.99	20.9	--
	09/18/01		12.83	426.59	431	--	2.51	0.500	26.4	102	--
	03/25/02		14.97	424.45	1,160	--	3.73	4.87	98.6	315	--
	09/15/02		11.76	427.66	1,340	--	7.47	<5.00	75.9	319	--
	04/10/03		13.91	425.51	2,700	--	6.4	<0.5	200	620	--
	09/05/03		11.28	428.14	1,600	--	4.3	<0.5	110	430	--
	03/01/04				Well Beneath snowbank, no access						--
	09/20/04		**14.03**	**425.39**	**2,300**	**--**	**5.1**	**<0.5**	**150**	**410**	--

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Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-3	06/22/94	439.84	14.25	425.59	ND	--	ND	ND	ND	ND	--
	09/27/94		13.75	426.09	ND	--	1.6	2	ND	1	--
	11/22/94		14.38	425.46	ND	--	1.3	ND	ND	ND	--
	03/29/95		15.07	424.77	ND	--	2.1	2	ND	6	--
	06/29/95	439.93	13.40	426.53	ND	--	0.6	ND	ND	ND	--
	09/18/95		12.08	427.85	ND	--	0.6	ND	ND	ND	--
	12/12/95		14.10	425.83	ND	--	ND	ND	ND	ND	--
	03/08/96		15.12	424.81	ND	ND	ND	ND	ND	ND	--
	05/30/96		14.16	425.77	ND	--	ND	ND	ND	ND	--
	09/18/96		14.20	425.73	ND	--	ND	ND	ND	ND	--
	12/11/96		15.10	424.83	ND	--	ND	ND	ND	ND	--
	03/13/97		15.61	424.32	ND	--	ND	ND	ND	ND	--
	06/18/97		--	--	--	--	--	--	--	--	--
	09/19/97		14.32	425.61	<500	--	<0.5	<0.5	<0.5	1.1	--
	12/10/97		--	--	--	--	--	--	--	--	--
	06/09/98		15.30	424.63	<500	--	<0.5	<0.5	0.592	2.2	--
	06/09/98			439.93	<500	--	<0.5	<0.5	<0.5	1.76	--
	09/16/98		13.69	426.24	178	--	<0.5	5.04	8.05	68.7	--
	12/28/98		15.26	424.67	<500	--	<1.0	<1.0	<1.0	<2.	--
	03/13/99		15.89	424.04	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/22/99		--	--	--	--	--	--	--	--	--
	09/28/99		14.32	425.61	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/15/99		--	--	--	--	--	--	--	--	--
	03/21/00		15.04	424.89	<500	--	<0.5	<0.5	<0.5	<0.1	--
	06/20/00		--	--	--	--	--	--	--	--	--
	09/13/00		12.42	427.51	<500	--	<0.5	<0.5	<0.5	<0.1	--
	12/13/00		--	--	--	--	--	--	--	--	--
	03/20/01		15.10	424.83	<500	--	<0.2	<0.5	<0.5	<0.1	--
	06/20/01		--	--	--	--	--	--	--	--	--
	09/18/01		--	--	--	--	--	--	--	--	--
	03/25/02		15.74	424.19	<500	--	<0.200	<0.500	<0.500	<1.00	--
	04/09/03		15.13	424.80	12		<0.5	<0.5	<0.5	<1.5	--
	09/01/04		Well beneath snowbank no access								--
			Well Decommissioned Due to Damage on 8/19/2004								--

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MW-4	06/20/94	439.23	13.51	425.72	140,000	--	7,700	56,000	4,600	20,000	--
	09/27/94		13.15	426.08	98,000	--	5,510	35,000	3,800	17,800	--
	11/21/94		13.74	425.49	120,000	--	5,200	42,000	5,000	28,000	--
	03/29/95		14.44	424.79	60,000	--	1,000	17,000	2,600	15,000	--
	06/29/95	439.16	12.76	426.40	79,000	1.9	790	20,000	3,300	16,000	--
	09/18/95		11.35	427.81	47,000	--	400	11,000	1,800	12,000	--
	12/13/95		13.30	425.86	87,000	--	450	12,000	2,300	14,000	--
	03/08/96		14.39	424.77	130,000	--	660	33,000	5,300	30,000	--
	05/31/96		13.38	425.78	102,000	--	407	15,900	3,450	22,300	--
	09/19/96		13.45	425.71	92,100	--	332	11,000	3,370	22,200	--
	12/12/96		14.22	424.94	39,800	--	164	3,810	1,330	10,300	--
	03/13/97		14.81	424.35	37,200	--	141	3,150	1,210	10,100	--
	06/18/97		13.81	425.35	33,800	--	<100	2,760	1,270	9,770	--
	09/19/97		13.42	425.74	34,000	--	<100	3,500	1,620	12,300	32.4
	12/10/97		14.33	424.83	38,700	--	50.6	1,820	1,330	11,300	22.4
	03/30/98		15.03	424.13	20,500	--	<50.0	1,270	849	6,660	14.5
	06/09/98		14.34	424.82	18,700	--	<50	771	673	6,530	9.96
	09/16/98		12.74	426.42	29,100	--	33.8	818	1,150	9,450	--
	12/28/98		14.43	424.73	25,900	--	8.03	275	939	7,030	--
	03/13/99		15.02	424.14	13,600	--	<50	122	644	4,820	--
	06/22/99		--	--	--	--	--	--	--	--	--
	09/28/99		13.49	425.67	22,700	--	<40	95	766	4,890	--
	12/15/99		14.29	424.87	17,500	--	22.5	45.4	710	3,700	--
	03/21/00		14.75	424.41	12,500	--	<25	27.6	366	1,990	--
	06/20/00		12.47	426.69	14,900	--	23.5	47.5	395	1,790	--
	09/13/00		11.45	427.71	12,400	--	<10	27.8	386	2,010	--
	12/13/00		13.24	425.92	11,500	--	<10.0	<25.0	442	1,910	--
	03/20/01		14.10	425.06	9,260	--	<4.20	<10	326	1,340	--
	06/20/01		13.27	425.89	7,960	--	12.5	11.4	360	13,910	--
	09/18/01		12.51	426.65	9,650	--	12.9	<10.0	373	1,530	--
	03/25/02		14.65	424.51	8,380	--	9.19	5.36	259	940	--
	03/25/02[D]		--	--	4,200	--	6.46	<5.00	115	342	--
	09/15/02		11.46	427.70	8,690	--	6.93	<5.00	315	1,170	--
	04/10/03		13.96	425.20	5,600	--	<10	1.3	150	520	--
	09/05/03		10.88	428.28	6,300	--	<20	1.5	170	430	--
	03/03/04		14.09	425.07	3,800	--	<20	1	110	300	--
	09/20/04		**13.72**	**425.44**	**6,100**	**--**	**<20**	**<2.5**	**120**	**280**	**--**

TABLE 2
Groundwater Elevation and Analytical Data

Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-5	06/22/94	439.90	13.95	426.99	150,000	--	33,000	45,000	3,800	16,000	--
	09/27/94		13.82	427.12	103,000	--	22,800	24,100	2,900	13,900	--
	11/21/94		14.44	426.50	150,000	--	29,000	39,000	5,000	30,000	--
	03/29/95		15.10	425.84	160,000	--	12,000	25,000	5,000	50,000	--
	06/29/95	439.82	13.45	426.37	19,000	--	17,000	37,000	5,200	33,000	--
	09/19/95		12.10	427.72	170,000	--	26,000	48,000	4,000	26,000	--
	12/13/95		13.85	425.97	420,000	--	43,000	60,000	56,000	35,000	--
	03/08/96		14.90	424.92	240,000	2.0	37,000	46,000	3,200	15,000	--
	06/01/96		14.07	425.75	124,000	--	15,400	25,400	2,110	9,890	--
	09/17/96		14.11	425.71	176,000	--	22,400	36,200	2,830	14,400	--
	12/11/96		14.81	425.01	175,000	--	17,200	34,500	3,210	18,200	--
	03/13/97		15.46	424.36	54,000	--	3,120	12,900	986	8,430	--
	06/18/97		14.61	425.21	7,150	--	230	953	259	1,210	--
	09/19/97		14.20	425.62	2,150	--	26.1	402	108	551	4.78
	09/19/97		--	--	3,050	--	<12.5	613	158	769	--
	12/10/97		15.00	424.82	7,700	--	160	427	336	1,940	5.11
	12/10/97		--	--	6,390	--	138	418	340	1,720	5.29
	03/30/98		16.72	423.10	1,690	--	5.89	389	62.0	322	4.62
	06/09/98		15.14	424.68	1,280	--	<5	281	45.2	213	3.11
	09/16/98		13.53	426.29	2,820	--	<12.5	130	141	796	--
	09/16/98		--	--	2,450	--	<10.0	132	145	814	--
	12/28/98		15.09	424.73	3,330	--	2.10	60	218	881	--
	03/13/99		15.67	424.15	4,490	--	26.70	65	391	1,220	--
	03/13/99		--	--	5,370	--	30.00	79	450	1,410	--
	06/22/99		14.72	425.10	5,660	--	30.7	539	207	991	--
	09/28/99		14.18	425.64	8,470	--	<25	52	282	1,460	--
	12/15/99		14.95	424.87	7,580	--	30.5	45.4	411	1,920	--
	12/15/99		--	--	5,900	--	23.8	31.8	307	1,380	--
	03/21/00		15.40	424.42	5,380	--	13.0	70.7	179	708	--
	06/20/00		13.13	426.69	5,470	--	14.3	153	184	875	--
	06/20/00		--	--	4,790	--	14.2	140	171	740	--
	09/13/00		12.16	427.66	9,570	--	11.7	134	380	2,190	--
	12/13/00		13.89	425.93	13,000	--	<10.0	251	576	3,730	--
	03/20/01		14.74	425.08	15,100	--	<21.0	338	637	3,710	--
	06/20/01		13.98	425.84	11,800	--	7.15	325	455	2,900	--
	09/18/01		13.13	426.69	11,500	--	13.0	223	485	3,260	--
	03/25/02		15.30	424.52	9,630	--	5.52	29.1	448	3,240	--
	09/15/02		12.13	427.69	15,300	--	8.98	29.6	577	4,590	--
	04/10/03		14.49	425.33	23,000	--	<10	21	850	6,800	--
	09/05/03		11.64	428.18	18,000	--	30	37	570	4,600	--
	03/03/04		14.83	424.99	24,000	--	<20	5.8	680	5,600	--
	09/20/04		**14.37**	**425.45**	**20,000**	**--**	**<20**	**4.2**	**500**	**4,500**	**--**

TABLE 2
Groundwater Elevation and Analytical Data

Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-6	06/20/94	439.39	13.88	425.51	13,000	--	2,300	650	850	2,600	--
	09/28/94		13.44	425.95	9,000	--	2,430	900	700	1,800	--
	11/21/94		14.03	425.36	28,000	--	5,800	7,800	1,600	5,200	--
	03/29/95		14.69	424.70	32,000	--	3,400	7,000	1,700	6,500	--
	06/29/95	439.37	13.06	426.31	4,200	--	230	8	510	960	--
	09/18/95		11.69	427.68	2,400	--	190	17	300	390	--
	12/13/95		13.65	425.72	39,000	--	3,600	7,300	1,200	4,000	--
	03/08/96		14.67	424.70	58,000	--	3,600	17,000	2,100	7,900	--
	05/31/96		13.66	425.71	15,300	--	377	1,020	972	3,380	--
	09/17/96		13.74	425.63	15,400	--	848	2,080	840	2,500	--
	12/12/96		14.55	424.82	31,700	--	2,080	7,240	1,160	3,390	--
	03/13/97		15.10	424.27	22,400	--	773	4,510	1,170	3,950	--
	06/18/97		14.23	425.14	8,060	--	124	50	846	1,680	--
	09/20/97		13.85	425.52	2,460	--	72.4	33.1	387	390	--
	12/10/97		14.63	424.74	5,130	--	728	5,130	1,130	2,640	--
	03/31/98		15.37	424.00	12,200	--	174	638	1,310	3,470	--
	06/08/98		14.77	424.60	4,550	--	64.9	210	665	1,230	--
	09/16/98		13.16	426.21	870	--	14.4	<2.5	173	159	--
	12/29/98		14.70	424.67	16,900	--	249	4,210	1,110	2,710	--
	03/14/99		15.35	424.02	23,000	--	176	4,550	1,820	5,840	--
	06/22/99		14.36	425.01	5,910	--	27.1	<10	769	1,780	--
	09/28/99		13.78	425.59	698	--	9.5	<2.5	117	142	--
	12/16/99		14.59	424.78	4,240	--	102	240	562	964	--
	12/16/99		--	--	4,550	--	97.1	226	522	903	--
	03/21/00		15.04	424.33	10,400	--	59.9	1,410	907	1,910	--
	06/20/00		12.77	426.60	2,990	--	13.5	4.08	407	585	--
	09/13/00		11.80	427.57	439	--	4.20	<0.5	45.7	88.8	--
	12/13/00		13.45	425.92	655	--	8.41	1.03	49	69.5	--
	03/20/01		14.42	424.95	24,900	--	238	2,520	1,770	6,260	--
	04/16/02		--	--	24,600	--	198	1,410	1,680	6,160	--
	06/20/01		13.56	425.81	7,540	--	54.3	15.3	967	2,220	--
	09/18/01		12.84	426.53	976	--	13.4	<250	171	233	--
	03/25/02		14.98	424.39	13,800	--	420	78.8	1,410	3,300	--
	09/15/02		11.79	427.58	340	--	4.15	<0.500	11.6	75.5	--
	04/09/03		14.25	425.12	23,000	--	250	830	1,500	5,500	--
	4/9/2003[D]		--	--	24,000	--	270	950	1,600	5,800	--
	09/05/03		11.34	428.03	1,800	--	23	<0.5	150	380	--
	03/03/04		14.55	424.82	25,000	--	340	180	1,400	6,200	--
	09/20/04		**14.06**	**425.31**	**3,800**	**--**	**94**	**12**	**230**	**700**	**--**

TABLE 2
Groundwater Elevation and Analytical Data

Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-7	06/22/94	439.72	13.97	425.75	44,000	--	11,000	6,200	1,600	5,500	--
	09/28/94		13.90	425.82	38,000	--	11,400	5,900	1,800	5,800	--
	11/22/94		14.46	425.26	41,000	--	12,000	8,600	1,900	6,900	--
	03/29/95		15.12	424.60	39,000	--	8,600	6,800	1,600	6,100	--
	06/29/95	439.70	13.45	426.25	18,000	--	5,100	2,500	900	2,600	--
	09/18/95		12.08	427.62	2,700	--	750	5	250	286	--
	12/13/95		14.00	425.70	26,000	--	4,800	530	1,000	3,800	--
	03/08/96		15.10	424.60	25,000	--	5,100	250	960	2,400	--
	06/01/96		14.11	425.59	13,200	--	3,360	38.1	649	1,030	--
	09/18/96		14.19	425.51	15,800	--	4,060	52.6	807	1,120	--
	12/11/96		14.98	424.72	12,300	--	3,340	52.9	715	884	--
	03/13/97		15.52	424.18	13,600	--	3,370	162	785	1,170	--
	06/18/97		14.66	425.04	4,630	--	1,430	<12.5	371	257	--
	09/20/97		14.27	425.43	3,230	--	1,250	<10	305	181	--
	12/10/97		14.95	424.75	2,310	--	818	<10	253	112	--
	03/31/98		15.79	423.91	798	--	280	<2.5	145	12.7	--
	06/09/98		15.19	424.51	473	--	157	1.01	117	7.89	--
	09/16/98		13.57	426.13	264	--	55.3	2.17	42.2	32.3	--
	12/28/98		15.15	424.55	186	--	45.0	1.22	34.3	20.06	--
	03/13/99		15.75	423.95	203	--	61.0	<0.5	42.6	<1.0	--
	03/13/99		--	--	181	--	60.7	<0.5	43.0	<1.0	--
	06/22/99		14.77	424.93	85.9	--	24.3	<0.5	7.5	<1.0	--
	09/28/99		14.19	425.51	119	--	18.6	<0.5	6.2	17.5	--
	09/28/99		--	--	149	--	21.8	0.82	7.3	21.7	--
	12/16/99		14.97	424.73	50.3	--	16.2	<0.5	1.17	<1.0	--
	03/21/00		15.42	424.28	51.6	--	16.3	<0.5	<0.5	<1.0	--
	06/20/00		13.14	426.56	51.6	--	15.6	<0.5	<0.5	<1.0	--
	09/13/00		12.17	427.53	<800	--	4.99	<0.5	<0.5	<1.0	--
	12/13/00		13.92	425.78	<800	--	4.83	<0.5	<0.5	<1.0	--
	03/21/01		14.79	424.91	<500	--	3.09	<0.5	<0.5	<1.0	--
	03/21/01		--	--	<500	--	13.5	<0.5	<0.5	<1.0	--
	06/20/01		13.96	425.74	<500	--	7.02	<0.5	<0.5	<1.0	--
	06/20/01		--	--	<500	--	4.74	<0.5	<0.5	<1.0	--
	09/18/01		--	--	--	--	--	--	--	--	--
	03/25/02		15.31	424.39	1,160	--	1.53	<0.500	<0.500	<1.00	--
	04/10/03		14.66	425.04	15	--	0.8	<0.5	<0.5	<0.5	--
	03/03/04		14.89	424.81	<10	--	<0.5	<0.5	<0.5	<1.5	--

TABLE 2
Groundwater Elevation and Analytical Data

Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-8	06/27/95	439.58	13.39	426.19	1,650	0.1	711	1	30	19	--
	09/19/95		12.03	427.55	4,400	--	2,200	15	102	154	--
	12/13/95		13.96	425.62	7,200	2.4	240	ND	2.8	1.7	--
	03/08/96		15.03	424.55	2,600	--	ND	ND	13	3.5	--
	05/31/96		14.03	425.55	1,940	0.478	726	ND	4.42	10.1	--
	09/16/96		14.11	425.47	1,360	--	593	ND	1.07	ND	--
	12/11/96		14.93	424.65	1,310	--	592	0.518	3.09	1.05	--
	03/13/97		15.41	424.17	362	--	126	ND	1.67	ND	--
	06/18/97		14.58	425.00	1,710	--	673	<5.0	<5.0	<10.0	--
	09/20/97		14.19	425.39	114	--	52.9	<0.5	<0.5	<1	--
	12/10/97		14.95	424.63	78.7	--	33.4	<0.5	<0.5	<1	--
	03/20/98		15.72	423.86	--	--	--	--	--	--	--
	06/09/98		15.11	424.47	427	--	299	<2.5	3.02	8.14	--
	09/16/98		13.49	426.09	1,870	--	1,530	<10	36.7	51.7	--
	12/29/98		15.10	424.48	485	--	257	<2.50	<2.50	<5.00	--
	03/14/99		15.68	423.90	<500	--	19	<0.5	<0.5	<1.0	--
	06/22/99		14.70	424.88	1,130	--	534	<10	<10	<20	--
	09/28/99		14.12	425.46	1,400	--	637	<10	<10	<20	--
	12/16/99		14.89	424.69	77.5	--	40.0	<0.5	<0.5	<1.0	--
	03/21/00		15.35	424.23	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/20/00		13.06	426.52	1,130	--	436	<5.0	5.04	<10.0	--
	09/14/00		12.06	427.52	242	--	106	<0.5	<0.5	<1.0	--
	12/14/00		13.84	425.74	<500	--	<0.2	<0.5	<0.5	<1.0	--
	03/21/01		14.71	424.87	<500	--	<0.2	<0.5	<0.5	<1.0	--
	06/20/01		13.89	425.69	296	--	141	<0.5	<0.5	<1.0	--
	09/18/01		--	--	--	--	--	--	--	--	--
	03/25/02		15.30	424.28	<50	--	<0.200	<0.500	<0.500	<1.00	--
	04/10/03		14.58	425.00	<10	--	<0.5	<0.5	<0.5	<1.5	--
	03/03/04		14.80	424.78	<10	--	<0.5	<0.5	<0.5	<1.5	--

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Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-9	06/30/95	438.76	12.51	426.25	87,000	--	3,700	2,100	3,800	16,000	--
	09/19/95		11.10	427.66	78,000	--	3,200	37,000	3,100	14,000	--
	12/13/95		13.00	425.76	91,000	--	2,900	18,000	2,300	11,000	--
	03/08/96		14.10	424.66	110,000	--	3,700	34,000	3,600	17,000	--
	03/08/96		--	--	110,000	--	3,800	35,000	3,700	17,000	--
	05/30/96		13.10	425.66	104,000	--	2,530	22,800	3,520	15,900	--
	09/16/96		13.19	425.57	72,400	--	1,670	16,000	2,400	10,900	--
	12/12/96		13.96	424.80	111,000	--	2,290	24,900	4,440	18,300	--
	03/13/97		14.52	424.24	84,700	--	1,620	19,300	2,940	13,800	--
	03/13/97		--	--	79,300	--	1,580	19,100	2,840	13,500	--
	06/18/97		13.66	425.10	74,400	--	1,120	14,700	3,340	14,300	--
	06/18/97		--	--	74,600	--	1,130	14,800	3,240	13,900	--
	09/20/97		13.27	425.49	59,200	--	840	15,900	2,870	12,600	ND
	12/10/97		14.00	424.76	66,800	--	760	16,700	2,990	16,000	ND
	12/10/97		--	--	69,800	--	804	17,000	3,570	16,600	--
	03/30/98		14.80	423.96	57,900	--	508	13,900	2,710	12,500	ND
	06/09/98		14.21	424.55	52,900	--	513	12,000	2,610	12,100	ND
	09/17/98		12.59	426.17	29,700	--	332	5,520	1,300	7,060	--
	12/29/98		14.15	424.61	52,900	--	238	9,920	2,320	12,830	--
	03/13/99		14.78	423.98	56,400	--	272	11,200	3,240	16,700	--
	08/09/99		--	--	56,200	--	110	6,640	2,610	11,800	--
	09/28/99		13.22	425.54	36,300	--	<200	4,610	1,920	9,240	--
	12/15/99		13.98	424.78	45,800	--	<125	6,670	2,530	13,900	--
	03/22/00		14.43	424.33	54,100	--	59.8	4,770	2,050	10,900	--
	06/20/00		12.16	426.60	44,200	--	62	3,540	2,020	10,400	--
	09/14/00		11.20	427.56	41,900	--	34.6	3,450	1,970	10,600	--
	12/14/00		12.94	425.82	26,200	--	<20.0	1,920	1,300	7,290	--
	03/21/01		13.81	424.95	37,700	--	<46.0	2,520	1,980	11,000	--
	06/20/01		12.98	425.78	35,600	--	40.8	2,300	1,830	11,400	--
	09/18/01		12.24	426.52	19,400	--	<20.0	567	1,100	6,010	--
	03/25/02		14.37	424.39	42,400	--	18.9	1,470	2,010	12,500	--
	09/15/02		11.17	427.59	24,500	--	12.5	175	1,280	5,810	--
	04/10/03		13.64	425.12	41,000	--	<50	430	1,700	11,000	--
	09/05/03		10.71	428.05	35,000	--	<50	220	1,500	9,300	--
	03/03/04		13.87	424.89	34,000	--	<50	130	1,300	7,300	--
	09/20/04		**13.45**	**425.31**	**27,000**	**--**	**<50**	**53**	**1,100**	**5,900**	**--**

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1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-10	06/30/95	439.22	12.78	426.44	23,000	--	21.2	2,500	1,500	7,000	--
	09/19/95		11.45	427.77	13,000	--	21	890	980	3,800	--
	12/12/95		13.30	425.92	19,000	--	88	130	1,400	3,400	--
	03/08/96		14.38	424.84	13,000	--	99	15	1,000	1,800	--
	06/01/96		13.42	425.80	17,400	--	108	49.3	1,230	2,340	--
	09/19/96		13.48	425.74	20,400	--	224	292	1,520	3,610	--
	12/11/96		14.25	424.97	14,300	--	107	53.8	1,150	1,890	--
	03/13/97		14.80	424.42	3,380	--	23.7	ND	462	491	--
	06/10/97		--	--	--	--	--	--	--	--	--
	09/19/97		13.54	425.68	21,300	--	302	1,060	1,860	6,630	--
	12/10/97		14.33	424.89	8,570	--	54.8	25	953	1,300	--
	03/30/98		15.06	424.16	1,680	--	10.9	ND	281	255	--
	06/09/98		14.49	424.73	2,200	--	<20	<2.5	313	230	--
	09/17/98		12.88	426.34	2,200	--	16.7	<5.0	373	347	--
	12/28/98		14.42	424.80	2,950	--	8.29	<1.0	503	481	--
	03/13/99		15.03	424.19	2,000	--	13.3	<5.0	424	443	--
	08/09/99		--	--	13,200	--	61.0	549.0	991	3,470	--
	09/28/99		13.48	425.74	8,170	--	40.0	98.4	836	2,500	--
	12/15/99		14.27	424.95	5,140	--	20.6	2.48	947	988	--
	03/21/00		14.72	424.50	2,430	--	7.78	<5.0	403	378	--
	06/20/00		12.47	426.75	413	--	1.95	0.632	47.5	33.7	--
	09/14/00		11.51	427.71	838	--	<3.3	<2.5	135	92.3	--
	09/14/00		--	--	666	--	<2.75	<2.5	120	80.4	--
	12/14/00		13.23	425.99	3,260	--	<5.0	<2.5	405	285	--
	12/14/00		14.07	425.15	3,030	--	<1.0	<2.5	425	316	--
	03/21/01		--	--	7,150	--	<22.0	<2.5	821	1,130	--
	06/21/01		13.27	425.95	6,040	--	10.1	122	637	1,150	--
	09/18/01		12.53	426.69	6,410	--	13.1	63.0	700	1,070	--
	03/25/02		14.55	424.67	4,140	--	7.88	49.9	524	681	--
	09/15/02		12.46	426.76	1,750	--	2.48	2.16	160	172	--
	04/10/03		13.92	425.30	10,000	--	<20	130	700	1,600	--
	09/05/03		10.97	428.25	3,100	--	<5	14	190	370	--
	03/03/04		14.16	425.06	4,100	--	<10	8.9	300	520	--
	09/20/04		**13.71**	**425.51**	**13,000**	**--**	**<20**	**120**	**640**	**2,000**	**--**

TABLE 2
Groundwater Elevation and Analytical Data

Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-11	06/30/95	440.42	13.96	426.46	34,000	14.9	10	102	8,000	28,000	--
	09/18/95		12.60	427.82							--
	12/12/95		--	--							--
	03/08/96		15.55	424.87	35,000	ND	230	12	1,400	2,600	--
	05/30/96		14.55	425.87	17,600	3.4	111	ND	883	2,070	--
	09/17/96		14.64	425.78	37,900	--	224	10.4	1,130	2,450	--
	12/11/96		15.42	425.00	28,800	--	222	ND	892	1,880	--
	03/13/97		16.05	424.37	29,500	--	165	ND	923	2,310	--
	06/18/97		15.16	425.26	--	--	--	--	--	--	--
	09/19/97		14.72	425.70	23,400	--	<100	<100	742	2,060	--
	12/10/97		15.60	424.82	19,600	--	34.2	13.2	667	1,490	--
	03/30/98		16.34	424.08	14,500	--	23.4	ND	301	795	--
	06/09/98		15.74	424.68	14,400	--	<25	<10	352	741	--
	09/15/98		14.12	426.30	12,700	--	<34	<10	319	603	--
	12/28/98		15.75	424.67	9,970	--	<1.0	<1.0	202	357.15	--
	03/13/99		16.34	424.08	9,110	--	53.9	22.0	290	523	--
	06/22/99		15.37	425.05	5,600	--	<30	<7.1	173	303	--
	06/22/99		--	--	5,140	--	<25.5	<7.5	197	342	--
	09/28/99		14.75	425.67	3,150	--	<10	<5.0	82	143	--
	12/15/99		15.63	424.79	8,090	--	<20	<7.5	162	276	--
	03/21/00		16.09	424.33	9,010	--	<5.0	<8.5	128	252	--
	06/21/00		13.84	426.58	8,700	--	19.2	<2.5	126	253	--
	09/14/00		13.08	427.34	5,440	--	<2.97	<2.98	94.0	175	--
	12/14/00		14.63	425.79	10,600	--	<4.0	<10.0	91.1	184	--
	03/21/01		15.49	424.93	12,200	--	<2.00	13.0	157	328	--
	06/20/01		--	--	--	--	--	--	--	--	--
	09/18/01		--	--	--	--	--	--	--	--	--
	03/25/02		15.85	424.57	7,830	--	18.2	1.54	92.1	176	--
	04/09/03		15.17	425.25	8,500	--	<20	<5.0	52	100	--
	03/02/04		15.50	424.92	4,900	--	<50	<2.5	40	76	--
MW-12	06/30/95	439.59	13.29	426.30	67	--	ND	2	2	8	--
	09/20/95		11.95	427.64	ND	--	ND	ND	ND	ND	--
	12/13/95		13.83	425.76	ND	--	ND	ND	ND	ND	--
	03/07/96		14.90	424.69	ND	--	ND	ND	ND	ND	--
	05/31/96		13.90	425.69	ND	--	ND	ND	ND	ND	--
	09/16/96		13.96	425.63	ND	--	ND	ND	ND	ND	--
	12/11/96		14.75	424.84	ND	--	ND	ND	ND	ND	--
	03/13/97		15.31	424.28	ND	--	ND	ND	ND	ND	--
	06/18/97		14.43	425.16	<500	--	<0.5	<0.5	<0.5	<1.0	--
	09/20/97		14.05	425.54	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/10/97		--	--	--	--	--	--	--	--	--
	03/31/98		15.58	424.01	<500	--	<0.5	<0.5	<0.5	<1.0	--
	09/16/98		13.37	426.22	<500	--	<0.5	<0.5	<0.5	<1.0	--
	03/14/99		15.54	424.05	<500	--	<0.5	<0.5	<0.5	0.59	--
	09/28/99		13.98	425.61	<500	--	<0.5	<0.5	<0.5	1.21	--
	12/15/99		--	--	--	--	--	--	--	--	--
	03/21/00		15.22	424.37	<500	<0.5	<0.5	<0.5	<0.5	<1.0	--
	06/20/00		--	--	--	--	--	--	--	--	--
	09/13/00		12.00	427.59	<500	<0.5	<0.5	<0.5	<0.5	<1.0	--
	12/14/00		--	--	--	--	--	--	--	--	--
	03/21/01		14.59	425.00	<500	<0.2	<0.5	<0.5	<0.5	<1.0	--
					Well Decommissioned on 8/19/2004						

TABLE 2
Groundwater Elevation and Analytical Data

Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-13	06/30/95	439.17	12.92	426.25	6,700	--	1,700	790	460	6,900	--
	09/18/95		11.55	427.62	3,200	--	800	3	320	220	--
	12/13/95		13.45	425.72	7,000	--	1,400	ND	390	280	--
	12/13/95		--	--	7,100	--	1,400	0.98	370	260	--
	03/07/96		14.50	424.67	3,700	--	1,200	0.9	190	75	--
	05/31/96		13.56	425.61	10,500	--	2,090	781	578	829	--
	09/16/96		13.62	425.55	18,600	--	1,900	1,420	1,110	2,900	--
	09/16/96		--	--	17,000	--	2,060	1,440	1,050	2,700	--
	12/11/96		14.40	424.77	2,830	--	374	ND	351	217	--
	12/11/96		--	--	2,690	--	356	ND	330	216	--
	03/13/97		14.96	424.21	1,360	--	308	ND	178	ND	--
	03/13/97		--	--	1,960	--	371	ND	230	ND	--
	06/18/97		14.10	425.07	5,440	--	1,430	17.7	578	231	--
	09/19/97		13.70	425.47	4,830	--	751	<5	801	524	--
	09/19/97		--	--	4,800	--	691	<12.5	717	463	--
	12/10/97		14.47	424.70	2,050	--	231	3.5	417	206	--
	03/30/98		15.24	423.93	2,230	--	284	180	310	174	--
	06/08/98		14.66	424.51	5,020	--	619	91.9	697	624	--
	06/08/98		--	--	4,890	--	576	107	653	597	--
	09/15/98		13.02	426.15	1,730	--	99.1	0.636	281	118	--
	12/29/98		14.61	424.56	134	--	9.88	<1.0	14.8	25.9	--
	03/14/99		15.20	423.97	<500	--	7.85	<0.5	<0.5	2.34	--
	06/22/99		--	--	--	--	--	--	--	--	--
	09/28/99		13.64	425.53	1580	--	85.50	<2.5	306	224	--
	12/16/99		14.42	424.75	<50.0	--	7.39	<0.5	1.38	4.10	--
	03/22/00		14.89	424.28	<500	--	4.90	<0.5	<0.5	<1.0	--
	06/20/00		12.63	426.54	335	--	54.2	<0.5	23.3	17.8	--
	09/14/00		11.36	427.81	186	--	12.8	<0.5	14.8	24.3	--
	12/13/00		13.40	425.77	74	--	11.6	<0.5	2.35	7.02	--
	03/21/01		14.27	424.90	<500	--	4.91	<0.5	<0.5	<1.0	--
	06/20/01		13.44	425.73	410	--	40.6	4.17	51	53.1	--
	09/18/01		12.71	426.46	212	--	36.1	<0.500	25.7	23.5	--
	03/25/02		14.84	424.33	<50.0	--	18.1	<0.500	<0.500	<1.00	--
	09/15/02		11.64	427.53	79.9	--	20.0	<0.500	2.82	1.35	--
	04/10/03		14.18	424.99	26	--	9.0	<0.5	<0.5	<1.5	--
	09/05/03		11.18	427.99	180	--	50.0	<0.5	<0.5	7.00	--
	03/03/04		14.40	424.77	<10	--	0.6	<0.5	<0.5	<1.5	--
	09/20/04		**13.95**	**425.22**	**390**	**--**	**120**	**<0.5**	**1.0**	**8.2**	**--**

TABLE 2
Groundwater Elevation and Analytical Data

Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-14	06/30/95	439.26	13.10	426.16	57	0.5	0.7	4	2	8	--
	09/20/95		11.70	427.56	ND	--	0.6	ND	ND	ND	--
	12/13/95		13.65	425.61	ND	--	ND	ND	ND	ND	--
	03/07/96		14.70	424.56	ND	--	ND	ND	ND	ND	--
	05/31/96		13.71	425.55	ND	--	ND	ND	ND	ND	--
	09/16/96		13.81	425.45	ND	--	ND	0.626	ND	2.56	--
	12/11/96		14.59	424.67	ND	--	ND	ND	ND	ND	--
	03/13/97		15.13	424.13	ND	--	ND	ND	ND	ND	--
	06/18/97		14.28	424.98	<500	--	<0.5	<0.5	<0.5	<1.0	--
	09/20/97		13.91	425.35	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/10/97		--	--	--	--	--	--	--	--	--
	03/30/98		15.41	423.85	<500	--	<0.5	<0.5	<0.5	<1.0	--
	03/30/98		--	--	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/08/98		--	--	--	--	--	--	--	--	--
	09/17/98		13.20	426.06	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/29/98		--	--	--	--	--	--	--	--	--
	03/14/99		15.37	423.89	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/22/99		--	--	--	--	--	--	--	--	--
	09/28/99		13.81	425.45	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/15/99		--	--	--	--	--	--	--	--	--
	03/21/00		15.04	424.22	<500	<0.5	<0.5	<0.5	<0.5	<1.0	--
	06/20/00		--	--	--	--	--	--	--	--	--
	09/14/00		11.80	427.46	<500	<0.5	<0.5	<0.5	<0.5	<1.0	--
	12/14/00		--	--	--	--	--	--	--	--	--
	03/21/01		14.42	424.84	<500	<0.2	<0.5	<0.5	<0.5	<1.0	--
	03/21/01		--	--	<500	<0.2	<0.5	<0.5	<0.5	<1.0	--
	06/20/01		--	--	--	--	--	--	--	--	--
					Well Decommissioned on 8/19/2004						
MW-15	09/21/95	437.55	9.80	427.75	ND	--	ND	ND	ND	ND	--
	12/12/95		11.70	425.85	ND	--	ND	ND	ND	ND	--
	03/07/96		12.78	424.77	ND	--	ND	ND	ND	ND	--
	05/31/96		11.80	425.75	ND	--	ND	ND	ND	ND	--
	09/16/96		11.88	425.67	ND	--	ND	ND	ND	ND	--
	12/11/96		12.66	424.89	ND	--	ND	ND	ND	ND	--
	03/13/97		13.20	424.35	ND	--	ND	ND	ND	ND	--
	06/18/97		12.36	425.19	<500	--	<0.5	<0.5	<0.5	<1.0	--
	09/19/97		11.65	425.90	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/10/97		12.74	424.81	--	--	--	--	--	--	--
	03/30/98		13.46	424.09	--	--	--	--	--	--	--
	06/09/98		12.90	424.65	<500	--	<0.5	<0.5	<0.5	<1.0	--
	09/17/98		11.28	426.27	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/29/98		--	--	--	--	--	--	--	--	--
	03/13/99		13.46	424.09	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/22/99		--	--	--	--	--	--	--	--	--
	09/28/99		11.90	425.65	<500	--	<0.5	<0.5	0.511	2.92	--
	12/15/99		--	--	--	--	--	--	--	--	--
	03/21/00		13.13	424.42	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/20/00		--	--	--	--	--	--	--	--	--
	09/14/00		9.91	427.64	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/14/00		--	--	--	--	--	--	--	--	--
	03/21/01		--	--	--	--	--	--	--	--	--
					Well Decommissioned on 8/19/2004						

TABLE 2
Groundwater Elevation and Analytical Data

Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
MW-16	09/21/95	437.96	10.33	427.63	ND	--	ND	ND	ND	ND	--
	12/12/95		12.25	425.71	ND	--	ND	ND	ND	ND	--
	05/30/96		12.30	425.66	ND	--	ND	ND	ND	ND	--
	09/16/96		12.44	425.52	ND	--	ND	ND	ND	ND	--
	12/12/96		13.17	424.79	ND	--	ND	ND	ND	ND	--
	03/13/97		13.72	424.24	ND	--	ND	ND	ND	ND	--
	06/18/97		12.89	425.07	<500	--	<0.5	<0.5	<0.5	<1.0	--
	09/19/97		12.53	425.43	<500	--	<0.5	<0.5	<0.5	1.88	--
	12/10/97		--	--	--	--	--	--	--	--	--
	03/31/98		14.05	423.91	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/09/98		--	--	--	--	--	--	--	--	--
	09/17/98		11.83	426.13	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/29/98		--	--	--	--	--	--	--	--	--
	03/13/99		14.16	423.80	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/22/99		--	--	--	--	--	--	--	--	--
	09/28/99		12.46	425.50	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/15/99		--	--	--	--	--	--	--	--	--
	03/21/00		13.38	424.58	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/20/00		--	--	--	--	--	--	--	--	--
	09/14/00		10.42	427.54	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/14/00		--	--	--	--	--	--	--	--	--
	03/21/01		13.20	424.76	<500	--	<0.2	<0.5	<0.5	<1.0	--
					Well Decommissioned on 8/19/2004						
MW-23[D]	12/13/95		--	--	ND	--	ND	0.55	ND	ND	--

TABLE 2
Groundwater Elevation and Analytical Data

Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID		Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)
SWMW-1	06/26/95	440.34	14.72	425.62	225	--	114	ND	ND	ND	--
	09/19/95		12.79	427.55	360	--	150	ND	ND	ND	--
	12/13/95		14.68	425.66	ND	--	ND	ND	ND	ND	--
	03/07/96		15.71	424.63	ND	--	ND	ND	ND	ND	--
	06/01/96		14.79	425.55	ND	--	ND	ND	ND	ND	--
	06/01/96		--	--	ND	--	ND	ND	ND	ND	--
	09/16/96		14.84	425.50	ND	--	ND	ND	ND	ND	--
	12/12/96		15.59	424.75	ND	--	ND	ND	ND	ND	--
	03/13/97		--	--	--	--	--	--	--	--	--
	06/18/97		15.31	425.03	<500	--	0.534	<0.5	<0.5	<1.0	--
	09/20/97		14.80	425.54	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/10/97		15.71	424.63	--	--	--	--	--	--	--
	03/30/98		16.46	423.88	<500	--	<0.5	3.8	<0.5	<1.0	--
	06/09/98		--	--	--	--	--	--	--	--	--
	09/16/98		14.24	426.10	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/29/98		--	--	--	--	--	--	--	--	--
	03/14/99		16.44	423.90	<500	--	<0.5	<0.5	1.010	3.46	--
	06/22/99		--	--	--	--	--	--	--	--	--
	09/28/99		14.86	425.48	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/15/99		--	--	--	--	--	--	--	--	--
	03/21/00		16.11	424.23	<500	--	<0.5	<0.5	<0.5	<1.0	--
	06/20/00		--	--	--	--	--	--	--	--	--
	09/14/00		12.85	427.49	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/14/00		--	--	--	--	--	--	--	--	--
	03/21/01		15.48	424.86	<500	--	<0.2	<0.5	<0.5	<1.0	--
	06/20/01		--	--	--	--	--	--	--	--	--
Trip blank	09/16/96		--	--	ND	--	ND	ND	ND	ND	--
	12/11/96		--	--	ND	--	ND	ND	ND	ND	--
	03/13/97		--	--	ND	--	ND	ND	ND	ND	--
	06/18/97		--	--	<500	--	<0.5	<0.5	<0.5	<1.0	--
	09/18/97		--	--	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/10/97		--	--	<500	--	<0.5	<0.5	<0.5	<1.0	--
	03/31/98		--	--	<500	--	<0.5	<0.5	<0.5	<1.0	--
	09/28/99		--	--	<500	--	<0.5	<0.5	<0.5	<1.0	--
	12/15/99		--	--	<500	--	<0.5	<0.5	<0.5	<1.0	--
	03/25/02		--	--	<50.0	--	<0.200	<0.500	<0.500	<1.00	--
	04/10/03		--	--	<10	--	<0.5	<0.5	<0.5	<1.5	--
	05/09/03		--	--	<10	--	<0.5	<0.5	<0.5	<1.5	--
	03/03/04		--	--	<10	--	<0.5	<0.5	<0.5	<1.5	--
	09/20/04		--	--	**<10**	--	**<0.5**	**<0.5**	**<0.5**	**<1.5**	--

TABLE 2
Groundwater Elevation and Analytical Data

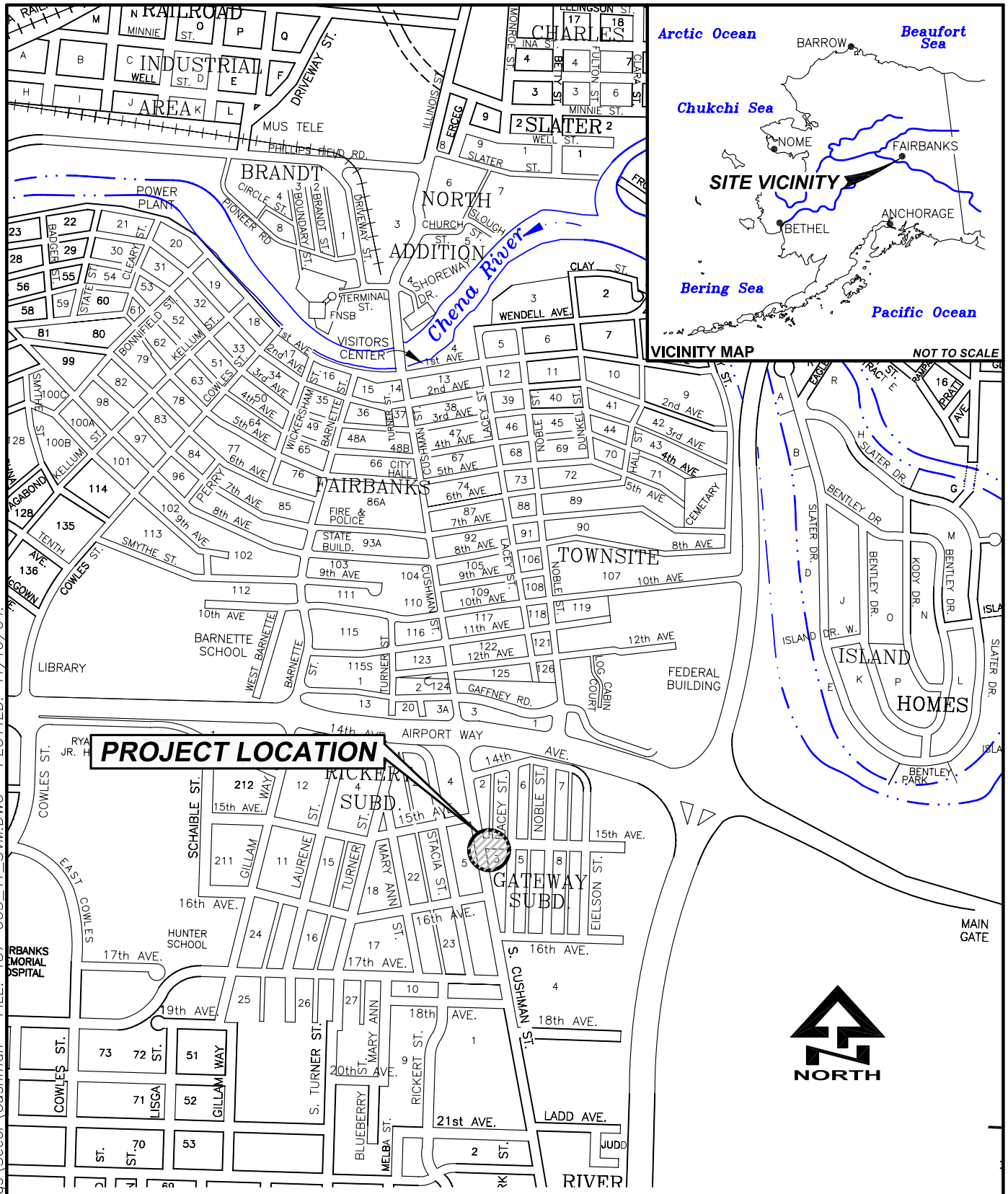
Former Texaco 21-1079
1501 Cushman St.
Fairbanks, Alaska

Sample ID	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)	GRO (µg/l)	DRO (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	Dissolved Lead[1] (µg/l)

Definitions:
MSL = Mean sea level
TOC = Top of casing elevation
GRO = Gasoline-range organics
DRO = Diesel-range organics
µg/l = micrograms per liter
"--" = Not applicable or not available
"<" = Not detected above laboratory method reporting limit shown
ND = Not detected above laboratory method reporting limit

Notes:
[1] = Dissolved lead by EPA method 7421
[D] = Duplicate sample

FIGURES



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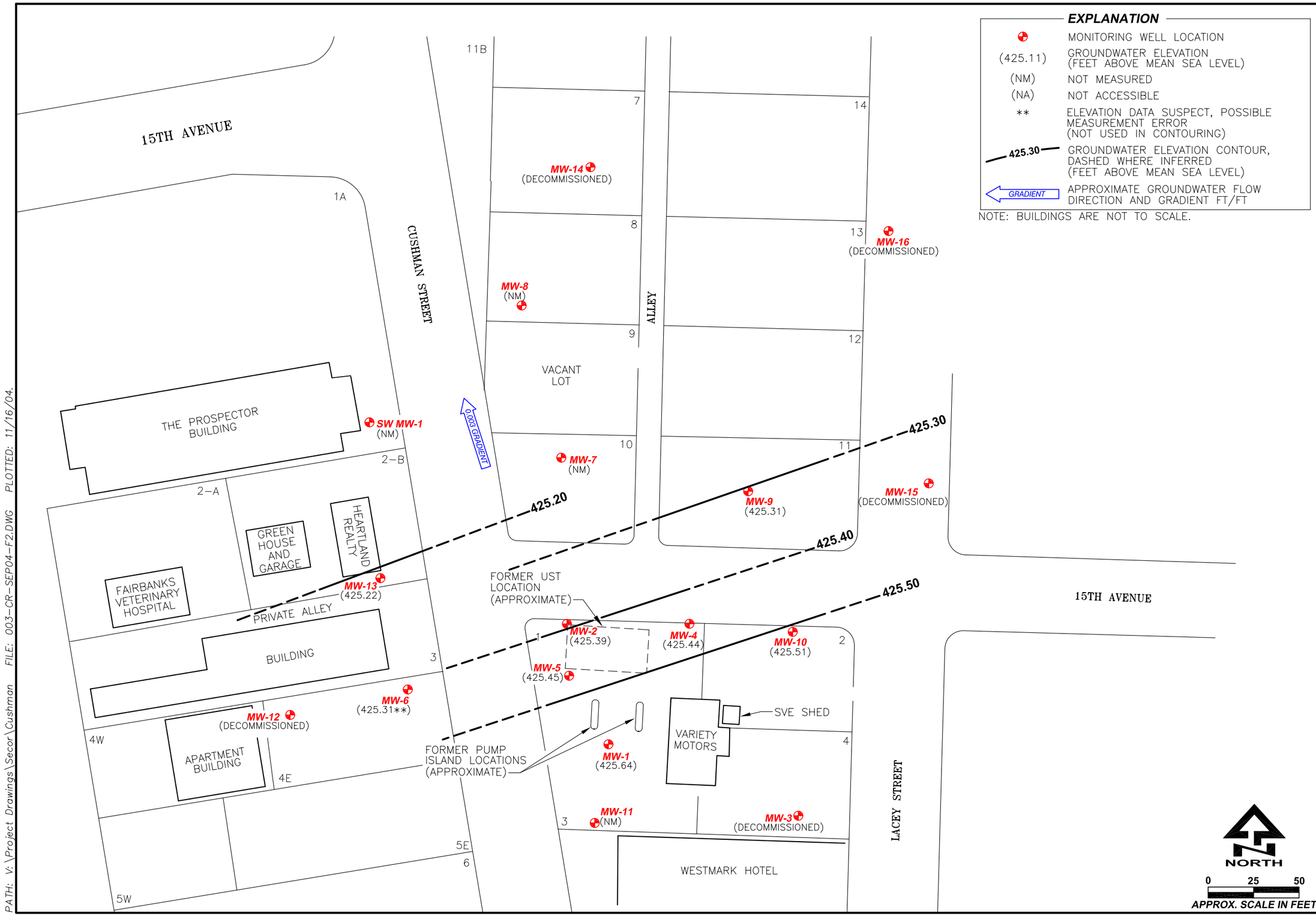
DATE	NOV. 2004
CHKD	C.B.
DRAWN	C.E.H.
PROJ. NO	178-003

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

SITE LOCATION MAP

FORMER TEXACO FACILITY No. 211079
1501 So. CUSHMAN STREET
FAIRBANKS, ALASKA

FIGURE 1



EXPLANATION

⊕	MONITORING WELL LOCATION
(425.11)	GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
(NM)	NOT MEASURED
(NA)	NOT ACCESSIBLE
**	ELEVATION DATA SUSPECT, POSSIBLE MEASUREMENT ERROR (NOT USED IN CONTOURING)
425.30	GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
GRADIENT	APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT FT/FT

NOTE: BUILDINGS ARE NOT TO SCALE.

FIGURE 2

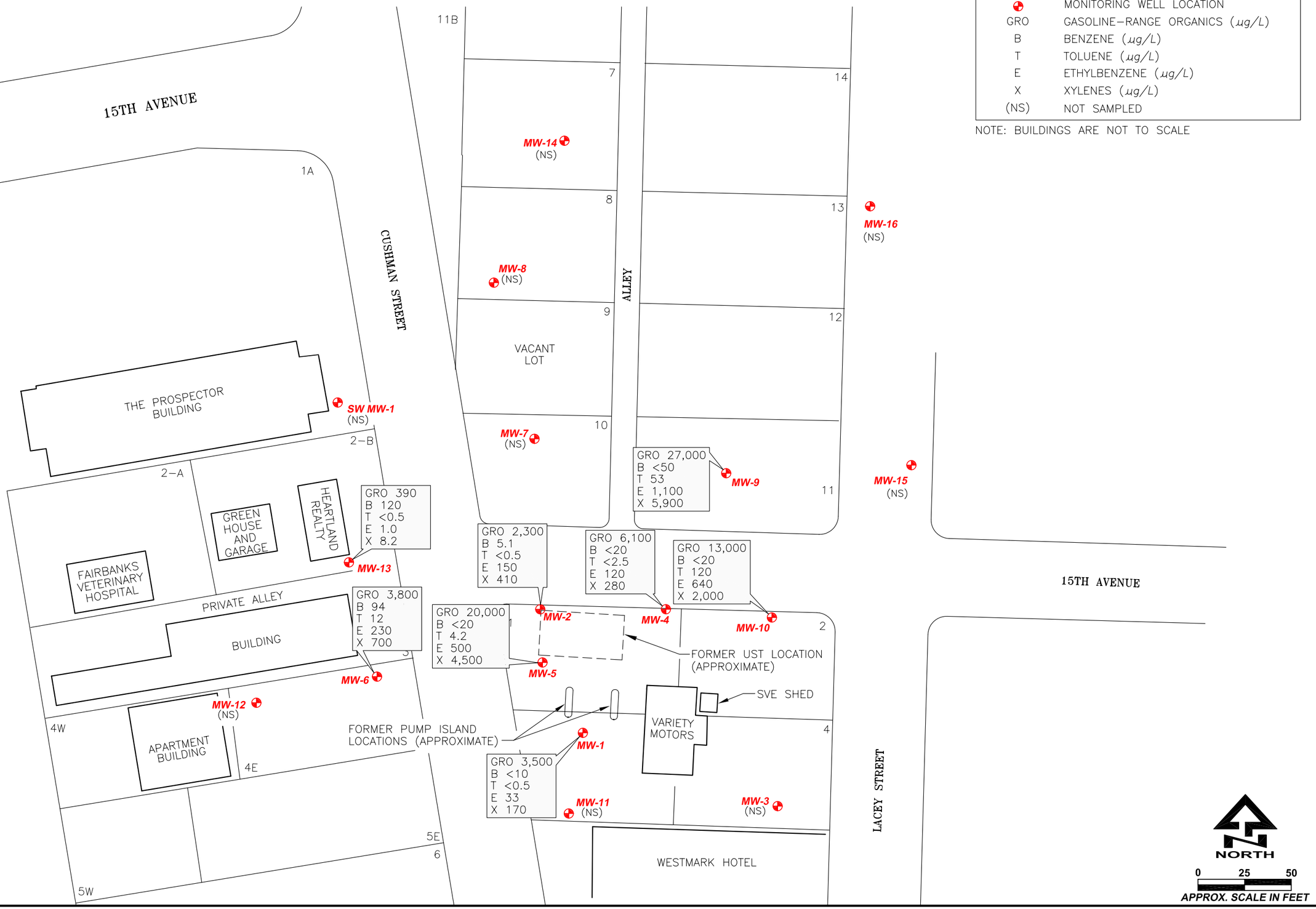
SITE PLAN WITH GROUNDWATER ELEVATIONS AND CONTOURS - SEPTEMBER 20, 2004

FORMER TEXACO FACILITY No. 211079
1501 So. CUSHMAN STREET
FAIRBANKS, ALASKA

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

DATE NOV. 2004
CHKD C.B.
DRAWN C.E.H.
PROJ. NO 187-003

PATH: V:\Project Drawings\Secor\Cushman FILE: 003-CR-SEP04-F2.DWG PLOTTED: 11/16/04.



EXPLANATION

⊕	MONITORING WELL LOCATION
GRO	GASOLINE-RANGE ORGANICS (µg/L)
B	BENZENE (µg/L)
T	TOLUENE (µg/L)
E	ETHYLBENZENE (µg/L)
X	XYLENES (µg/L)
(NS)	NOT SAMPLED

NOTE: BUILDINGS ARE NOT TO SCALE

FIGURE 3

SITE PLAN WITH CHEMICAL CONCENTATION DATA SEPTEMBER 20, 2004

FORMER TEXACO FACILITY No. 211079
1501 So. CUSHMAN STREET
FAIRBANKS, ALASKA

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

DATE NOV. 2004
CHKD C.B.
DRAWN C.E.H.
PROJ. NO 187-003

PATH: V:\Project Drawings\Secor\Cushman FILE: 003-CR-SEP04-F3.DWG PLOTTED: 11/15/04.

ATTACHMENT 1
FIELD AND LABORATORY PROCEDURES

Second Semiannual Groundwater Monitoring Report
Former Texaco Service Station 21-1079
1501 S. Cushman Street
Fairbanks, Alaska
OASIS Project No.: 187-003-2-1
December 16, 2004

Sampling Procedures

Groundwater samples are 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 are tested for dissolved oxygen and temperature using a submersible probe prior to purging. After the collection of dissolved oxygen and temperature measurements, wells not containing SPH are 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 are measured for each purge casing volume and are 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 are collected using clean, laboratory-supplied containers and are preserved by acidification with hydrochloric acid and stored in coolers at 4° ± 2° C. The sample coolers are 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), and benzene, toluene, ethylbenzene, xylenes (BTEX) by Alaska Method AK101.

Purge and Rinsate Water Disposal

Purge water generated during well sampling and equipment cleaning is pumped into DOT approved 55-gallon drums onsite for temporary storage. The purge water drums are sampled and a composite sample is prepared and delivered with the groundwater samples to Lancaster Laboratories under the name “Purge.” Results of the composite purge water sample analysis are delivered to the local waste water treatment plant for review and acceptance. Upon acceptance of the analytical results, purge water is transported to the Golden Heart Utilities facility in Fairbanks for supervised disposal.

ATTACHMENT 2
FIELD DATA SHEETS

Second Semiannual Groundwater Monitoring Report
Former Texaco Service Station 21-1079
1501 S. Cushman Street
Fairbanks, Alaska
OASIS Project No.: 187-003-2-1
December 16, 2004

GROUNDWATER SAMPLE DATA SHEET

Project Number:	77CH21079	Sample Location (ie. MW1):	MW-1
Project Name:	1501 Cushman Street	Sample ID (ie. MW-1):	MW-1
Client:	SECOR	Date Sample Collected:	9/20/2004
Sampler:	Carl Benson	Time sampled:	1630

Well Information

Groundwater:	X	Casing Diameter (in):	4	a) Well Depth (ft):	21.28
				b) Water Depth (ft):	15.32
Other:				c) Water Column (ft):	5.96
				d) Calc. Purge Vol. (gal):	3.9

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 (F)	Color	Turbidity	Redox	Dissolved O_2	Other
1619	4	6.69	0.485	4.4	Brown	141	-	-	Odor
1623	8	6.67	0.487	4.3	Clear	0	-	-	No Sheen
1627	12	6.67	0.488	4.3	Clear	0	-	-	

Total Volume Purged (Gallons): 12 Free Product (y/n): No

Odor: Petroleum-Hydrocarbon-like odor Sheen (y/n): No

Purge Method (disposable bailer, teflon bailer, **submersible pump**, etc.)

Sample Method (disposable bailer, teflon bailer, **submersible pump**, etc.)

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

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

Dissolved Oxygen = mg/L, Temperature = C

Duplicate Sample ID: **Duplicate = Duplicate 1 @ 1700**

Analyses Requested: GRO using AK101
BTEX using EPA 8021B

Signed: Carl Benson Date: 9/22/2004

Signed/reviewer: Date:

GROUNDWATER SAMPLE DATA SHEET

Project Number:	77CH21079	Sample Location (ie. MW1):	MW-2
Project Name:	1501 Cushman Street	Sample ID (ie. MW-1):	MW-2
Client:	SECOR	Date Sample Collected:	9/20/2004
Sampler:	Carl Benson	Time sampled:	1500

Well Information

Groundwater:	X	Casing Diameter (in):	4	a) Well Depth (ft):	23
				b) Water Depth (ft):	14.03
Other:				c) Water Column (ft):	8.97
				d) Calc. Purge Vol. (gal):	5.8

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 (F)	Color	Turbidity	Redox	Dissolved O_2	Other
1450	6	6.85	1.01	3.7	Brown	0	-	-	Odor
1455	12	6.69	0.673	3.2	Clear	0	-	-	No Sheen
1459	18	6.69	0.616	3.2	Clear	0	-	-	

Total Volume Purged (Gallons): 18 Free Product (y/n): No

Odor: Petroleum Hydrocarbon like odor Sheen (y/n): No

Purge Method (disposable bailer, teflon bailer, **submersible pump**, etc.)

Sample Method (disposable bailer, teflon bailer, **submersible pump**, etc.)

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

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

Dissolved Oxygen = mg/L, Temperature = C

Duplicate Sample ID: None Collected

Analyses Requested: GRO using AK101
BTEX using EPA 8021B

Signed: Carl Benson Date: 9/22/2004

Signed/reviewer: Date:

GROUNDWATER SAMPLE DATA SHEET

Project Number:	77CH21079	Sample Location (ie. MW1):	MW-4
Project Name:	1501 Cushman Street	Sample ID (ie. MW-1):	MW-4
Client:	SECOR	Date Sample Collected:	9/20/2004
Sampler:	Carl Benson	Time sampled:	1115

Well Information

Groundwater:	X	Casing Diameter (in):	4	a) Well Depth (ft):	22.06
				b) Water Depth (ft):	13.72
Other:				c) Water Column (ft):	8.34
				d) Calc. Purge Vol. (gal):	5.4

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 (F)	Color	Turbidity	Redox	Dissolved O_2	Other
1100	5.5	6.73	0.484	4.2	Clear	0	-	-	
1105	11	6.83	0.46	4	Clear	0	-	-	Odor
1110	16.5	6.96	0.458	4	Clear	0	-	-	No
									Sheen

Total Volume Purged (Gallons): 17 Free Product (y/n): No

Odor: Petroleum-Hydrocarbon-like odor Sheen (y/n): No

Purge Method (disposable bailer, teflon bailer, **submersible pump**, etc.)

Sample Method (disposable bailer, teflon bailer, **submersible pump**, etc.)

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

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

Dissolved Oxygen = mg/L, Temperature = C

Duplicate Sample ID: None Collected

Analyses Requested: GRO using AK101
BTEX using EPA 8021B

Signed: Carl Benson Date: 9/22/2004

Signed/reviewer: Date:

GROUNDWATER SAMPLE DATA SHEET

Project Number:	77CH21079	Sample Location (ie. MW1):	MW-5
Project Name:	1501 Cushman Street	Sample ID (ie. MW-1):	MW-5
Client:	SECOR	Date Sample Collected:	9/20/2004
Sampler:	Carl Benson	Time sampled:	1545

Well Information

Groundwater:	X	Casing Diameter (in):	4	a) Well Depth (ft):	20.4
				b) Water Depth (ft):	14.37
Other:				c) Water Column (ft):	6.03
				d) Calc. Purge Vol. (gal):	3.9

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 (F)	Color	Turbidity	Redox	Dissolved O_2	Other
1535	4	6.57	0.552	3.7	Clear	0	-	-	Odor
1538	8	6.45	0.535	3.6	Clear	0	-	-	No Sheen
1542	12	6.46	0.54	3.2	Clear	0	-	-	

Total Volume Purged (Gallons): 12 Free Product (y/n): No

Odor: Petroleum-Hydrocarbon-like odor Sheen (y/n): No

Purge Method (disposable bailer, teflon bailer, **submersible pump**, etc.)

Sample Method (disposable bailer, teflon bailer, **submersible pump**, etc.)

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

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

Dissolved Oxygen = mg/L, Temperature = C

Duplicate Sample ID: None Collected

Analyses Requested: GRO using AK101
BTEX using EPA 8021B

Signed: Carl Benson Date: 9/22/2004

Signed/reviewer: Date:

GROUNDWATER SAMPLE DATA SHEET

Project Number:	77CH21079	Sample Location (ie. MW1):	MW-6
Project Name:	1501 Cushman Street	Sample ID (ie. MW-1):	MW-6
Client:	SECOR	Date Sample Collected:	9/20/2004
Sampler:	Carl Benson	Time sampled:	850

Well Information

Groundwater:	X	Casing Diameter (in):	4	a) Well Depth (ft):	22.46
				b) Water Depth (ft):	14.06
Other:				c) Water Column (ft):	8.4
				d) Calc. Purge Vol. (gal):	5.5

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 (F)	Color	Turbidity	Redox	Dissolved O_2	Other
835	5	6.44	0.99	2.9	Orange	506	-	-	Odor
840	10	6.83	0.751	2.5	Orange	14	-	-	No
845	15	6.89	0.689	2.6	Clear	0	-	-	Sheen

Total Volume Purged (Gallons): 15 Free Product (y/n): No

Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

Purge Method (disposable bailer, teflon bailer, **submersible pump**, etc.)

Sample Method (disposable bailer, teflon bailer, **submersible pump**, etc.)

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

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

Dissolved Oxygen = mg/L, Temperature = C

Duplicate Sample ID: None Collected

Analyses Requested: GRO using AK101
BTEX using EPA 8021B

Signed: Carl Benson Date: 9/22/2004

Signed/reviewer: Date:

GROUNDWATER SAMPLE DATA SHEET

Project Number:	77CH21079	Sample Location (ie. MW1):	MW-9
Project Name:	1501 Cushman Street	Sample ID (ie. MW-1):	MW-9
Client:	SECOR	Date Sample Collected:	9/20/2004
Sampler:	Carl Benson	Time sampled:	1345

Well Information

Groundwater:	X	Casing Diameter (in):	2	a) Well Depth (ft):	17.55
				b) Water Depth (ft):	13.45
Other:				c) Water Column (ft):	4.1
				d) Calc. Purge Vol. (gal):	0.7

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 (F)	Color	Turbidity	Redox	Dissolved O_2	Other
1334	1	7.26	0.561	4.5	Brown	634	-	-	Odor
1337	2	6.99	0.549	4.1	Brown	999	-	-	No Sheen
1340	3	7.07	0.545	4	Brown	999	-	-	Silty

Total Volume Purged (Gallons): 3 Free Product (y/n): No

Odor: Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

Purge Method (**disposable bailer**, teflon bailer, submersible pump, etc.)

Sample Method (**disposable bailer**, teflon bailer, submersible pump, etc.)

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

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

Dissolved Oxygen = mg/L, Temperature = C

Duplicate Sample ID: None Collected

Analyses Requested: GRO using AK101
BTEX using EPA 8021B

Signed: Carl Benson Date: 9/22/2004

Signed/reviewer: Date:

GROUNDWATER SAMPLE DATA SHEET

Project Number:	77CH21079	Sample Location (ie. MW1):	MW-10
Project Name:	1501 Cushman Street	Sample ID (ie. MW-1):	MW-10
Client:	SECOR	Date Sample Collected:	9/20/2004
Sampler:	Carl Benson	Time sampled:	1230

Well Information

Groundwater:	X	Casing Diameter (in):	2	a) Well Depth (ft):	16.65
				b) Water Depth (ft):	13.71
Other:				c) Water Column (ft):	2.94
				d) Calc. Purge Vol. (gal):	0.5

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 (F)	Color	Turbidity	Redox	Dissolved O_2	Other
1218	0.5	7.21	0.634	5.6	Orange		-	-	Odor
1222	1	7.12	0.577	5.2	Brown		-	-	No
1225	1.5	7.14	0.555	5	Brown		-	-	Sheen

Total Volume Purged (Gallons): 1.5 Free Product (y/n): No

Odor: Petroleum-Hydrocarbon like odor Sheen (y/n): No

Purge Method (**disposable bailer**, teflon bailer, submersible pump, etc.)

Sample Method (**disposable bailer**, teflon bailer, submersible pump, etc.)

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

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

Dissolved Oxygen = mg/L, Temperature = C

Duplicate Sample ID: None Collected

Analyses Requested: GRO using AK101
BTEX using EPA 8021B

Signed: Carl Benson Date: 9/22/2004

Signed/reviewer: Date:

GROUNDWATER SAMPLE DATA SHEET

Project Number:	77CH21079	Sample Location (ie. MW1):	MW-13
Project Name:	1501 Cushman Street	Sample ID (ie. MW-1):	MW-13
Client:	SECOR	Date Sample Collected:	9/20/2004
Sampler:	Carl Benson	Time sampled:	1015

Well Information

Groundwater:	X	Casing Diameter (in):	2	a) Well Depth (ft):	17.14
				b) Water Depth (ft):	13.95
Other:				c) Water Column (ft):	3.19
				d) Calc. Purge Vol. (gal):	0.5

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 (F)	Color	Turbidity	Redox	Dissolved O_2	Other
955	0.5	6.95	1.18	4	Brown	115	-	-	Odor
959	1	7.1	1.16	3.7	Brown	170	-	-	No Sheen
1005	1.5	7.11	1.13	3.7	Brown	113	-	-	

Total Volume Purged (Gallons): 1.5 Free Product (y/n): No

Odor: Faint Petroleum Hydrocarbon-Like Odor Sheen (y/n): No

Purge Method (**disposable bailer**, teflon bailer, submersible pump, etc.)

Sample Method (**disposable bailer**, teflon bailer, submersible pump, etc.)

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

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

Dissolved Oxygen = mg/L, Temperature = C

Duplicate Sample ID: None Collected

Analyses Requested: GRO using AK101
BTEX using EPA 8021B

Signed: Carl Benson Date: 9/22/2004

Signed/reviewer: Date:

ATTACHMENT 3
LABORATORY ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY DOCUMENTATION

Second Semiannual Groundwater Monitoring Report
Former Texaco Service Station 21-1079
1501 S. Cushman Street
Fairbanks, Alaska
OASIS Project No.: 187-003-2-1
December 16, 2004

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 913142. Samples arrived at the laboratory on Wednesday, September 22, 2004. The PO# for this group is 99011184 and the release number is COCHRAN.

Client Description	Lancaster Labs Number
MW-6 Grab Water Sample	4358111
MW-13 Grab Water Sample	4358112
MW-4 Grab Water Sample	4358113
MW-10 Grab Water Sample	4358114
MW-9 Grab Water Sample	4358115
MW-2 Grab Water Sample	4358116
MW-5 Grab Water Sample	4358117
Duplicate-1 Grab Water Sample	4358118
Purge Grab Water Sample	4358119
MW-1 Grab Water Sample	4358120
Trip_Blank Water Sample	4358121

1 COPY TO	SECOR International, Inc.	Attn: David Weigner
ELECTRONIC COPY TO	Oasis Environmental	Attn: Carl Benson

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Questions? Contact your Client Services Representative
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

Dana M Kauffman

Dana M. Kauffman
Group Leader

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4358111

MW-6 Grab Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004 08:50 by CB

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:28
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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.	3,800.	10.	ug/l	1
	The gasoline calibration verification standard that was analyzed prior to this sample was outside of specifications (biased high) for the surrogate triflourotoluene. Since all other quality control standards and sample surrogates are within specifications there is no impact on the results.					
05879	BTEX					
02161	Benzene	71-43-2	94.	0.5	ug/l	1
02164	Toluene	108-88-3	12.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	230.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	700.	1.5	ug/l	1

State of Alaska Lab Certification No. UST-061

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK101 GRO	1	09/23/2004 15:17	Linda C Pape	1
05879	BTEX	SW-846 8021B	1	09/23/2004 15:17	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2004 15:17	Linda C Pape	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4358112

MW-13 Grab Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004 10:15 by CB

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:28
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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.	390.	10.	ug/l	1
	The gasoline calibration verification standard that was analyzed prior to this sample was outside of specifications (biased high) for the surrogate triflourotoluene. Since all other quality control standards and sample surrogates are within specifications there is no impact on the results.					
05879	BTEX					
02161	Benzene	71-43-2	120.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	1.0	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	8.2	1.5	ug/l	1

State of Alaska Lab Certification No. UST-061

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK101 GRO	1	09/23/2004 15:49	Linda C Pape	1
05879	BTEX	SW-846 8021B	1	09/23/2004 15:49	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2004 15:49	Linda C Pape	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4358113

MW-4 Grab Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004 11:15 by CB

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:28
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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.	6,100.	50.	ug/l	5
	The gasoline calibration verification standard that was analyzed prior to this sample was outside of specifications (biased high) for the surrogate triflourotoluene. Since all other quality control standards and sample surrogates are within specifications there is no impact on the results.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	20.	ug/l	5
02164	Toluene	108-88-3	N.D.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	120.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	280.	7.5	ug/l	5
	Due to the nature of the sample matrix, normal reporting limits were not attained for benzene and toluene.					

State of Alaska Lab Certification No. UST-061

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK101 GRO	1	09/23/2004 16:22	Linda C Pape	5
05879	BTEX	SW-846 8021B	1	09/23/2004 16:22	Linda C Pape	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2004 16:22	Linda C Pape	n.a.

Analysis Report

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Lancaster Laboratories Sample No. WW 4358114

MW-10 Grab Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004 12:30 by CB

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:28
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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.	13,000.	50.	ug/l	5
	The gasoline calibration verification standard that was analyzed prior to this sample was outside of specifications (biased high) for the surrogate triflourotoluene. Since all other quality control standards and sample surrogates are within specifications there is no impact on the results.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	20.	ug/l	5
02164	Toluene	108-88-3	120.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	640.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	2,000.	7.5	ug/l	5
	Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for benzene. 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK101 GRO	1	09/23/2004 16:55	Linda C Pape	5
05879	BTEX	SW-846 8021B	1	09/23/2004 16:55	Linda C Pape	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2004 16:55	Linda C Pape	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4358115

MW-9 Grab Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004 13:45 by CB

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:29
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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.	27,000.	100.	ug/l	10
05879	BTEX					
02161	Benzene	71-43-2	N.D.	50.	ug/l	5
02164	Toluene	108-88-3	53.	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	1,100.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	5,900.	15.	ug/l	10

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for benzene. 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK101 GRO	1	09/24/2004 09:43	Linda C Pape	10
05879	BTEX	SW-846 8021B	1	09/23/2004 17:28	Linda C Pape	5
05879	BTEX	SW-846 8021B	1	09/24/2004 09:43	Linda C Pape	10
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2004 17:28	Linda C Pape	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4358116

MW-2 Grab Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004 15:00 by CB

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:29
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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.	2,300.	10.	ug/l	1
	The gasoline calibration verification standard that was analyzed prior to this sample was outside of specifications (biased high) for the surrogate triflourotoluene. Since all other quality control standards and sample surrogates are within specifications there is no impact on the results.					
05879	BTEX					
02161	Benzene	71-43-2	5.1	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	150.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	410.	1.5	ug/l	1

State of Alaska Lab Certification No. UST-061

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK101 GRO	1	09/23/2004 18:00	Linda C Pape	1
05879	BTEX	SW-846 8021B	1	09/23/2004 18:00	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2004 18:00	Linda C Pape	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4358117

MW-5 Grab Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004 15:45 by CB

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:29
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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.	20,000.	100.	ug/l	10
	The analysis was performed from a previously opened vial and the results are therefore estimated.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	20.	ug/l	1
02164	Toluene	108-88-3	4.2	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	500.	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	4,500.	15.	ug/l	10

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

The analysis for ethylbenzene and total xylenes was performed from a previously opened vial and the results are therefore estimated.

State of Alaska Lab Certification No. UST-061

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK101 GRO	1	09/24/2004 10:49	Linda C Pape	10
05879	BTEX	SW-846 8021B	1	09/23/2004 18:33	Linda C Pape	1
05879	BTEX	SW-846 8021B	1	09/24/2004 10:49	Linda C Pape	10
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2004 18:33	Linda C Pape	n.a.

Analysis Report

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Lancaster Laboratories Sample No. WW 4358118

Duplicate-1 Grab Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004 17:00 by CB

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:29
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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.	3,600.	10.	ug/l	1
	The gasoline calibration verification standard that was analyzed prior to this sample was outside of specifications (biased high) for the surrogate triflourotoluene. Since all other quality control standards and sample surrogates are within specifications there is no impact on the results.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	10.	ug/l	1
02164	Toluene	108-88-3	N.D.	2.0	ug/l	1
02166	Ethylbenzene	100-41-4	37.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	190.	1.5	ug/l	1
	Due to the presence of interferents near their retention time, normal reporting limits were not attained for benzene and toluene. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.					

State of Alaska Lab Certification No. UST-061

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK101 GRO	1	09/23/2004 19:06	Linda C Pape	1
05879	BTEX	SW-846 8021B	1	09/23/2004 19:06	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2004 19:06	Linda C Pape	n.a.

Analysis Report

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Lancaster Laboratories Sample No. WW 4358119

Purge Grab Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004 17:30 by CB

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:29
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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 169F.					
	Test flame extinguished at 149F.					
	Flash point was determined using Pensky Martens closed cup apparatus.					
08079	HEM (oil & grease)	n.a.	N.D.	1,400.	ug/l	1
	The matrix spike analyzed on the batch associated with this sample had a recovery of 66%. The acceptance window for this analysis is 79% to 114%. The blank and LCS analyzed with this sample were within specifications.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	2.5	ug/l	5
02164	Toluene	108-88-3	4.8	2.5	ug/l	5
02166	Ethylbenzene	100-41-4	190.	2.5	ug/l	5
02171	Total Xylenes	1330-20-7	1,200.	7.5	ug/l	5

State of Alaska Lab Certification No. UST-061

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00430	Flash Point for Liquids	ASTM D 93-90	1	09/27/2004 08:20	Susan A Engle	1
08079	HEM (oil & grease)	EPA 1664A	1	09/28/2004 08:15	Yolunder Y Bunch	1
05879	BTEX	SW-846 8021B	1	09/23/2004 21:24	Michael F Barrow	5
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2004 21:24	Michael F Barrow	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4358120

MW-1 Grab Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004 16:30 by CB

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:29
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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.	3,500.	10.	ug/l	1
05879	BTEX					
02161	Benzene	71-43-2	N.D.	10.	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	33.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	170.	1.5	ug/l	1

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for benzene. 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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK101 GRO	1	09/24/2004 11:55	Linda C Pape	1
05879	BTEX	SW-846 8021B	1	09/24/2004 11:55	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/24/2004 11:55	Linda C Pape	n.a.

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4358121

Trip_Blank Water Sample
Facility# 211079
1501 S Cushman St. - Fairbanks, AK
Collected:09/20/2004

Account Number: 10869

Submitted: 09/22/2004 09:15
Reported: 09/30/2004 at 10:29
Discard: 10/31/2004

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

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
	The gasoline calibration verification standard that was analyzed prior to this sample was outside of specifications (biased high) for the surrogate triflourotoluene. Since all other quality control standards and sample surrogates are within specifications there is no impact on the results.					
05879	BTEX					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1

State of Alaska Lab Certification No. UST-061

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01440	Alaska AK101 GRO (waters)	AK101 GRO	1	09/23/2004 14:44	Linda C Pape	1
05879	BTEX	SW-846 8021B	1	09/23/2004 14:44	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/23/2004 14:44	Linda C Pape	n.a.

Lancaster Laboratories

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

Analysis Report

Quality Control Summary

Client Name: ChevronTexaco
Reported: 09/30/04 at 10:29 AM

Group Number: 913142

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 04267A20B	Sample number(s): 4358119							
Benzene	N.D.	0.5	ug/l	96		79-123		
Toluene	N.D.	0.5	ug/l	98		82-119		
Ethylbenzene	N.D.	0.5	ug/l	98		81-119		
Total Xylenes	N.D.	1.5	ug/l	99		82-120		
Batch number: 04267A51A	Sample number(s): 4358111-4358118,4358121							
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	116	119	60-120	2	20
Benzene	N.D.	0.5	ug/l	104	103	79-123	2	30
Toluene	N.D.	0.5	ug/l	106	103	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	105	103	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	107	104	82-120	2	30
Batch number: 04267A51B	Sample number(s): 4358115,4358117,4358120							
Alaska AK101 GRO (waters)	N.D.	10.	ug/l	116	119	60-120	2	20
Benzene	N.D.	0.5	ug/l	104	103	79-123	2	30
Toluene	N.D.	0.5	ug/l	106	103	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	105	103	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	107	104	82-120	2	30
Batch number: 04271043001A	Sample number(s): 4358119							
Flash Point for Liquids				99	100	97-103	1	2
Batch number: 04272807901A	Sample number(s): 4358119							
HEM (oil & grease)	2.5	1.4	mg/l	90		79-114		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 04267A20B	Sample number(s): 4358119								
Benzene	111	104	78-131	7	20				
Toluene	110	103	78-129	7	30				
Ethylbenzene	110	101	75-133	8	30				
Total Xylenes	110	102	86-132	8	30				
Batch number: 04267A51A	Sample number(s): 4358111-4358118,4358121								
Benzene	(2)		78-131						
Toluene	102		78-129						
Ethylbenzene	100		75-133						
Total Xylenes	101		86-132						

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

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco Group Number: 913142
Reported: 09/30/04 at 10:29 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 04267A51B	Sample number(s): 4358115,4358117,4358120								
Benzene	(2)		78-131						
Toluene	102		78-129						
Ethylbenzene	100		75-133						
Total Xylenes	101		86-132						
Batch number: 04272807901A	Sample number(s): 4358119								
HEM (oil & grease)	66*		79-114			N.D.	2.3	294* (1)	18

Surrogate Quality Control

Analysis Name: BTEX
Batch number: 04267A20B

	Trifluorotoluene-P
4358119	116
Blank	123
LCS	121
MS	120
MSD	121
Limits:	72-128

Analysis Name: BTEX
Batch number: 04267A51A

	Trifluorotoluene-F	Trifluorotoluene-P
4358111	115	106
4358112	113	103
4358113	114	103
4358114	114	104
4358115		104
4358116	105	99
4358117		104
4358118	120	101
4358121	112	101
Blank	110	102
LCS	114	100
LCSD	78	101
MS	112	102
Limits:	60-120	72-128

Analysis Name: BTEX
Batch number: 04267A51B

	Trifluorotoluene-F	Trifluorotoluene-P
4358115	108	
4358117	111	
4358120	118	103
Blank	110	97

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

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco Group Number: 913142
Reported: 09/30/04 at 10:29 AM

Surrogate Quality Control

LCS	114	100
LCSD	78	101
MS	112	102
Limits:	60-120	72-128

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

Chevron Generic Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 10869 Sample #: 4358111-21 SCR#: 1194326
C#913142

Facility #: 211079
Site Address: 1501 S. Cushman, Fairbanks AK
Chevron PM: Bob Cochran Lead Consultant: SECOR
Consultant/Office: Secor Sacramento
Consultant Prj. Mgr.: David Weigner
Consultant Phone #: 916 861-0400 Fax #: 916 861-0430
Sampler: Carl Benson
Service Order #: ☐ Non SAR:

Analyses Requested / Preservation Codes

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water (☐ Potable ☐ NPDES)	Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates ___	TPH G ___	TPH D ___ (☐ Extended Rng. ☐ Silica Gel Cleanup)	Lead Total ☐ Diss. ☐ Method ___	VPH/EPH	NWTPH H HCID ☐ quantification	AK101 - G120	13TBX - SW8021B	Flash Point	Oil gravity - HEM
MW-6	9/20/04	0850	X			X											X	X		
MW-13	9/20/04	1015	X			X											X	X		
MW-4	9/20/04	1115	X			X											X	X		
MW-10	9/20/04	1230	X			X											X	X		
MW-9	9/20/04	1345	X			X											X	X		
MW-2	9/20/04	1500	X			X											X	X		
MW-5	9/20/04	1545	X			X											X	X		
Duplicate-1	9/20/04	1700	X			X											X	X		
Purge	9/20/04	1730	X	X		X											X	X		
MW-1	9/20/04	1630	X			X												X	X	X
Trip Blank	—	—		X		X											X	X		
																	X	X		

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

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

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

Comments / Remarks
Also e-mail results to Carl Benson at Atlas Environmental carlb@atlasenviro.com

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

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

Relinquished by:	Date	Time	Received by:	Date	Time
K. Gaut	8-31-04		Carl Benson	9/21/04	1600
Carl Benson	9/21/04	0800			

Relinquished by Commercial Carrier: UPS FedEx Other _____
Temperature Upon Receipt 2.5 C°
Received by: 9-22-04 0915
Custody Seals Intact? Yes No

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

3566 Rev. 1/31/02

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

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

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

Measurement uncertainty values, as applicable, are available upon request.

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.