STRATUS
ENVIRONMENTAL, INC.

3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

April 25, 2007
Project No. 2007-0057-01

Mr. Barney Chan
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: Quarterly Groundwater Monitoring Report, First Quarter 2007, for former USA Service Station No. 57, located at 10700 MacArthur Boulevard, Oakland, CA (LOP No. RO0000232)

Dear Mr. Chan:

Stratus Environmental, Inc. (Stratus), on behalf of USA Gasoline Corporation (USA), is submitting the attached report, which presents the results of first quarter 2007 quarterly monitoring, and sampling program and an update on remediation efforts at the former USA Service Station No. 57, located at 10700 MacArthur Boulevard, Oakland, California (Figure 1). This report has been prepared in compliance with Alameda County Department of Environmental Health (ACDEH) requirements for underground storage tank (UST) investigations.

If you have any questions regarding this report, please contact Gowri Kowtha at (530) 676-6001.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Sarah O. Salcedo, P.G.
Senior Geologist

Gowri S. Kowtha, P.E.
Project Manager

Attachment: Quarterly Groundwater Monitoring Report, First Quarter 2007

cc: Mr. Charles Miller, USA Gasoline Corporation
Mr. Ken Phares, Jay-Phares Corporation
Mr. Peter McIntyre, AEI Consultants

Date April 25, 2007

USA GASOLINE QUARTERLY GROUNDWATER MONITORING REPORT

Facility No: 57 Address: 10700 MacArthur Blvd., Oakland, California

USA Gasoline Project Supervisor: Charles Miller

Consulting Co./Contact Person: Stratus Environmental, Inc./ Gowri S. Kowtha, P.E.

Consultant Project No: 2007-0057-01

Primary Agency/Regulatory ID No: Barney Chan, Alameda County Department of Environmental Health / RO0000232

WORK PERFORMED THIS QUARTER (First 2007):

1. Stratus measured groundwater elevations and collected groundwater samples from wells S-1, S-2, MW-3, MW-4, MW-6 through MW-8, and EX-1 through EX-4 on January 8, 2007. Due to onsite construction activities, well MW-5 was covered by soil and this well could not be monitored or sampled. In addition, well MW-6 contained insufficient water for purging and sampling.

2. Stratus conducted five site visits to collect field and laboratory parameters to evaluate and optimize the performance of the oxygen injection (iSOC™) system.

3. Stratus compiled and evaluated groundwater monitoring data.

WORK PROPOSED FOR NEXT QUARTER (Second 2007):

1. The next sampling event is tentatively scheduled for April 2007. Groundwater samples will be collected for laboratory analysis from wells S-1, S-2, MW-3 through MW-8, and EX-1 through EX-4.

2. Groundwater samples will be analyzed for gasoline range organics (GRO) using U.S. Environmental Protection Agency Method (EPA) Method SW8015B/DHS Luft Manual, and for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA), and 1,2-dibromoethane (EDB) using EPA Method SW8260B.

Current Phase of Project:	Monitoring / Interim Remediation
Frequency of Groundwater Sampling:	All Wells = Quarterly
Frequency of Groundwater Monitoring:	Quarterly
Groundwater Sampling Date:	January 8, 2007
Is Free Product (FP) Present on Site:	No
FP Recovered This Quarter:	NA
Cumulative FP Recovered to Date:	NA
Approximate Depth to Groundwater:	5.47 to 21.68 feet below top of well casing
Groundwater Flow Direction:	South-southeast
Groundwater Gradient:	0.034 ft/ft

INTERIM REMEDIATION SYSTEM OPERATION AND PERFORMANCE

Equipment Inventory:	Oxygen Injection System (iSOC™-Manufactured by inVentures Technologies, Inc.)
System Status:	Operational
Reporting Period:	January 8 through March 29, 2007
Historical Highest GRO Concentration:	160,000 µg/L (S-2, 1998)
Historical Highest Benzene Concentration:	13,000 µg/L (EX-2, 2005)
Historical Highest MTBE Concentration:	820 µg/L (MW-3, 1995)
Highest GRO Concentration this Period:	14,000 µg/L (EX-2)
Highest Benzene Concentration this Period:	4,100 µg/L (EX-2)
Highest MTBE Concentration this Period:	90 µg/L (EX-2)

DISCUSSION:

At the time of the first quarter 2007 monitoring event, groundwater elevations had decreased between 0.74 and 1.62 feet in wells S-1, S-1, MW-7, MW-8, and EX-2, decreased 8.88 feet in well MW-3, and increased 4.32 feet in well EX-1 since the previous monitoring event (October 17, 2006). Depth-to-water measurements were converted to feet above mean sea level (MSL) and used to construct a groundwater elevation contour map (Figure 2). The groundwater elevations measured in wells EX-1 through EX-4 were not used in contour construction (as these wells are screened to only 25 feet below ground surface). The groundwater elevations measured in well MW-3 appeared to be anomalous and therefore this well was not used in contour construction. The groundwater flow direction was generally to the south-southeast at an average gradient of approximately 0.034 ft/ft. South and radial groundwater flow patterns have been observed during previous monitoring events.

GRO, benzene, and/or MTBE were reported in wells S-1, S-2, MW-3, EX-1 through EX-4. MTBE was also reported in well MW-7. The maximum concentrations of GRO (14,000 µg/L), benzene (4,100 µg/L), and MTBE (90 µg/L) were reported in well EX-2. TBA was reported in wells MW-3 (30 µg/L) and EX-3 (12 µg/L). 1,2-DCA was reported in wells S-2 (2.6 µg/L), MW-3 (22 µg/L), and EX-3 (1.1 µg/L). DIPE, ETBE, TAME, EDB, methanol, or ethanol were not reported in any of the wells. These results are generally consistent with historical analytical data, with the exception of significant decreases in contaminant concentrations in wells EX-1 and EX-3 since last sampled. Analytical results of GRO, benzene, and MTBE for groundwater samples collected on January 8, 2007, are presented in Figure 3.

REMEDIATION SYSTEM STATUS

System Description

The iSOC™ oxygen injection system is a bioremediation technology that produces high levels of dissolved oxygen for in-situ biodegradation of petroleum hydrocarbon constituents. The iSOC™ system consists of individual injection units (1.62 inches in diameter and approximately 15 inches in length) made of stainless steel, and an industrial grade oxygen cylinder. The individual injections units contain a micro-flow controller that regulates the flow based on the static head and pressure setting at the oxygen cylinder. The injection units also contain micro-porous hollow fibers, which provide a significant mass transfer area and create an ultra saturation zone when oxygen gas pressure is maintained lower than the static groundwater pressure. Each individual injection unit is placed in a monitoring well and connected to a 250 cubic centimeter (cc) oxygen cylinder using a single run ¼-inch diameter tubing.

Operational History and Monitoring Plan

From startup on January 11, 2006 through December 18, 2006, the individual injection units were placed in wells S-1, S-2, and MW-3. During that period, wells EX-1 through EX-3 were used as observation wells to monitor the performance of the remediation system. In December 2006, the iSOC™ units were moved from wells S-1 and MW-3 to wells EX-1 and EX-2. Since that time, oxygen injection at wells S-2, EX-1, and EX-2 has continued and wells S-1, MW-3, and EX-3 have been used as observation wells. Monitoring wells MW-7 and MW-8 are used as background wells to monitor natural changes in groundwater geochemistry. The following field and laboratory parameters are monitored periodically to evaluate and optimize the performance of the oxygen injection system.

Field Parameters: Depth to water, pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), specific conductivity, and temperature.

Laboratory Parameters: GRO, BTEX, BOD, total and ferrous iron, heterotrophic plate counts, total organic carbon, total dissolved solids, nitrates, nitrites, ammonia, sulfates, sulfides, total phosphorus and orthophosphate.

Since system start-up, field parameters are collected on a bi-monthly basis, and samples for laboratory analyses are collected on a quarterly basis. A summary of sampling frequencies, field and laboratory parameters and the potential significance of both are presented as Table 3.

Results

A summary of current and historical field data and laboratory results are presented in Tables 4 and 5, respectively. Graphs illustrating DO levels over time from December 2006 to present in injection wells (S-2, EX-1, and EX-2) and in observation and background wells (S-1, MW-3, MW-7, and MW-8) are presented as Figures 4 and 5. Graphs illustrating DO levels over time from January to December 2006 in historic injection wells (S-1, S-2, and MW-3) and in observation and background wells (EX-1, EX-2, MW-7, and MW-8) are presented in Appendix E.

During the first quarter 2007, average DO levels in injection wells S-2, EX-1, and EX-2 of 13.36 mg/L, 8.23 mg/L, and 6.48 mg/L, respectively, were measured. The average DO levels in the observation wells (S-1, MW-3, and EX-3) and the background monitoring wells (MW-7 and MW-8) were in the ranges of 2.17 mg/L to 7.35 mg/L, and 3.25 mg/L to 4.20 mg/L, respectively (Figure 5). Based on the bio-parameter data available, the heterotrophic plate counts reported for former-observation now-injection wells (EX-1 and EX-2) generally appear to be greater than the plate counts reported for background monitoring wells (MW-7 and MW-8). However, a consistent pattern or correlation of heterotrophic plate counts either with the variation in DO levels or the petroleum hydrocarbon concentrations could not be identified in the data available to date.

Graphs illustrating concentrations of GRO, benzene, MTBE, and depth to water over with time (with the initiation of oxygen injection activities also shown) at wells S-1, S-2, MW-3, EX-1, and EX-2 are included as Figures 6 through 10. Since startup of the oxygen injection system, concentrations of GRO, benzene, and MTBE concentrations appear to have generally decreased at wells S-1 and S-2, with the exception of the most recent sampling event for well S-1 in January 2007. At well MW-3, GRO concentrations appear somewhat stable since startup of the remediation system, while decreasing and increasing trends in MTBE and benzene concentrations, respectively, are observed. At wells EX-1 and EX-2, no significant trends (fluctuations) in GRO, benzene, and MTBE concentrations are noted since iSOC™ began. Limited data from observation well EX-3 indicates apparent decreasing trends in GRO and benzene concentrations.

ATTACHMENTS:

- Table 1 Groundwater Elevation and Analytical Summary
- Table 2 Groundwater Analytical Results for Oxygenates and Additional Compounds
- Table 3 Monitoring Plan Summary
- Table 4 Physical Parameter Summary
- Table 5 Analytical Parameter Summary
- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation Contour Map (First Quarter 2007)
- Figure 3 Groundwater Analytical Summary (First Quarter 2007)
- Figure 4 DO Variation with Time at Injection Wells
- Figure 5 DO Variation with Time at Observation and Background Wells
- Figure 6 GRO, Benzene, MTBE, and Depth to Water Variation with Time at S-1
- Figure 7 GRO, Benzene, MTBE, and Depth to Water Variation with Time at S-2
- Figure 8 GRO, Benzene, MTBE, and Depth to Water Variation with Time at MW-3
- Figure 9 GRO, Benzene, MTBE, and Depth to Water Variation with Time at EX-1
- Figure 10 GRO, Benzene, MTBE, and Depth to Water Variation with Time at EX-2
- Appendix A Field Data Sheets
- Appendix B Sampling and Analysis Procedures
- Appendix C Certified Analytical Reports and Chain-of-Custody Documentation
- Appendix D GeoTracker Electronic Submittal Information
- Appendix E Historical DO Variation with Time at Injection Wells, and at Observation and Background Wells

TABLE 1

GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57

10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
S-1	02/12/87						630	4.4	3.5	37	NA
	03/03/95	13.10	74.74	61.64	910	5,900	260	7.6	16	14	NA
	07/24/95	12.35		62.39	NA	NA	NA	NA	NA	NA	NA
	11/22/95	19.30	78.68	59.38	460	6,100	13	0.69	0.99	1.1	460*
	12/06/95	19.59		59.09	NA	NA	NA	NA	NA	NA	NA
	01/04/96	19.52		59.16	NA	NA	NA	NA	NA	NA	NA
	01/31/97	15.07		63.61	1,100	200	11	6	3	6	200*
	10/10/97	18.90		59.78	530	2,000	<0.5	2.1	<0.5	<2	230*
	01/20/98	16.79		61.89	1,800	200	<0.5	<0.5	1.5	10	87*
	04/28/98	8.37		70.31	130	7,300	1.9	3.2	<0.5	<0.5	310*
	07/31/98	11.61		67.07	310	2,000	0.54	4.6	3.8	0.82	280*
	06/10/99	14.35		64.33	660	150	0.99	<0.5	<0.5	2.4	80*[1]
	10/18/00	17.56		61.12	<50	330	<0.5	0.93	<0.5	<0.5	44
	03/12/02	16.29		62.39	500	<50	2.8	4.8	0.79	4.4	63
	11/19/02	19.53		59.15	190	NA	<0.50	<0.50	<0.50	<0.50	190
	01/09/03	18.14		60.54	510	NA	1.1	<0.50	0.52	<0.50	11
	04/14/03	18.04		60.64	300	NA	<1.0[2]	<1.0[2]	<1.0[2]	<1.0[2]	27
	07/21/03	20.31		58.37	300	NA	<0.50	<0.50	<0.50	<0.50	11
	10/09/03	19.46		59.22	390	NA	<0.50	<0.50	<0.50	<0.50	8.8
	01/15/04	18.21	79.66	61.45	200	NA	<0.50	<0.50	<0.50	<0.50	6.0
	04/08/04	19.29		60.37	140	NA	<0.50	<0.50	<0.50	<0.50	12
	08/10/04	18.86		60.80	110	NA	4.6	<0.50	<0.50	0.51	73
	11/11/04	19.81		59.85	160	NA	<0.50	<0.50	<0.50	<0.50	150
	01/19/05	18.12		61.54	440	NA	<0.50	<0.50	1.4	<0.50	140
	04/14/05	13.94		65.72	320	NA	<0.50	<0.50	<0.50	<0.50	120
	07/19/05	14.11		65.55	240	NA	6.1	<0.50	0.60	<0.50	60
	10/24/05	16.53		63.13	320	NA	5.0	<0.50	1.1	<0.50	37
	02/02/06	15.27		64.39	<50	NA	<0.50	<0.50	<0.50	<0.50	45
	04/27/06	9.59		70.07	<50	NA	<0.50	<0.50	<0.50	<0.50	7.7
	07/12/06	11.00		68.66	<50	NA	<0.50	<0.50	<0.50	<0.50	12
	10/17/06	14.54		65.12	<50	NA	<0.50	<0.50	<0.50	<0.50	1.6
	01/08/07	15.87		63.79	260	NA	4.6	<0.50	<0.50	<0.50	15

TABLE 1

GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57

10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
S-2	02/12/87		Sheen				3,400	3,800	1,300	11,000	NA
	03/03/95	15.39	76.86	61.47	24,000	6,000	1,900	440	600	2,500	NA
	07/24/95	14.47		62.39	NA	NA	NA	NA	NA	NA	NA
Sheen	11/22/95	21.52	80.93	59.41	NA	NA	NA	NA	NA	NA	NA
	12/06/95	21.78		59.15	NA	NA	NA	NA	NA	NA	NA
	01/04/96	21.75		59.18	NA	NA	NA	NA	NA	NA	NA
	01/31/97	17.25		63.68	NA	NA	NA	NA	NA	NA	NA
Sheen	10/10/97	21.21		59.72	13,000	<50	260	38	190	280	600*
Sheen	01/20/98	19.07		61.86	1,900	2,300	4.6	6.3	<0.5	4.6	190*
	04/28/98	10.47		70.46	22,000	<100	980	160	320	680	570*
	07/31/98	13.71		67.22	160,000	<50	950	290	550	1,700	550*
	11/02/98	17.31		63.62	14,000	<500	170	70	170	230	490*
	06/10/99	16.48		64.45	17,000	<50	650	230	<25	750	490*[1]
	10/18/00	19.70		61.23	4,400	<50	2	64	5.1	12	270
	03/12/02	18.56		62.37	5,100	660	62	44	52	78	430
	11/19/02	21.70		59.23	26,000	NA	1,400	180	520	340	750
	01/09/03	20.37		60.56	16,000	NA	120	32	76	214	270
	04/14/03	19.93		61.00	16,000	NA	160	76	210	290	400
	07/21/03	22.00		58.93	9,700	NA	270	90	200	277	410
	10/09/03	21.58		59.35	10,000	NA	39	9.2	52	26.5	180
	01/15/04	20.44	81.90	61.46	6,300	NA	21	<2.0 [3]	20	3.1	130
	04/08/04	17.15		64.75	13,000	NA	160	76	170	231	430
	08/10/04	20.98		60.92	10,000	NA	76	13	<5.0[3]	500	92
	11/11/04	21.95		59.95	20,000	NA	530	240	370	1,730	420
	01/19/05	20.33		61.57	17,000	NA	590	150	250	990	580
	04/14/05	16.17		65.73	20,000	NA	830	230	570	1,980	510
	07/19/05	16.25		65.65	970	NA	48	13	16	57	72
	10/24/05	18.07		63.83	1,200	NA	100	13	52	41	69
	02/02/06	17.26		64.64	2,000	NA	17	12	26	108	340
	04/27/06	11.55		70.35	130	NA	5.1	1.1	2.8	8.8	81
	07/12/06	12.98		68.92	140	NA	<0.50	<0.50	<0.50	0.77	180
	10/17/06	16.59		65.31	130	NA	0.98	<0.50	1.1	2.20	160
	01/08/07	18.21		63.69	69	NA	<0.50	<0.50	<0.50	<0.50	64

TABLE 1

GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57

10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-3	03/03/95	13.99	76.30	62.31	2,500	1,600	540	92	36	200	NA
	07/24/95	13.33		62.97	NA	NA	NA	NA	NA	NA	NA
	11/22/95	20.94	80.32	59.38	14,000	5,400	5,700	230	430	650	820*
	12/06/95	17.48		62.84	NA	NA	NA	NA	NA	NA	NA
	01/04/96	20.01		60.31	NA	NA	NA	NA	NA	NA	NA
	01/31/97	16.63		63.69	1,100	<50	130	8	5	5	NA
	10/10/97	20.62		59.70	3,400	1,100	830	4	100	<10	160*
	01/20/98	15.40		64.92	3,900	550	7.9	4.1	<0.5	3.7	<5.0*
	04/28/98	10.51		69.81	800	1,000	82	5.2	5.7	5.4	240*
	07/31/98	13.46		66.86	2,200	610	510	7.6	16	5.27	310*
	11/02/98	17.11		63.21	4,900	1,600	220	16	13	13.7	180*
	06/10/99	15.24		65.08	1,000	120	<0.5	<0.5	<0.5	1.1	120*[1]
	10/18/00	15.41		64.91	<50	<50	<0.5	<0.5	<0.5	<0.5	12
	04/08/04	13.70		66.62	<50	NA	<0.50	<0.50	<0.50	<0.50	19
	08/10/04	16.96		63.36	580	NA	19	<1.0[3]	<1.0[3]	3.3	300
	11/11/04	17.40		62.92	3,000	NA	810	<5.0[3]	43	<5.0[3]	690
	01/19/05	13.28		67.04	92	NA	18	<0.50	0.77	<0.50	17
	04/14/05	8.73		71.59	<50	NA	0.52	<0.50	<0.50	<0.50	11
	07/19/05	11.94		68.38	390	NA	82	2.3	1.8	9.2	200
	10/24/05	14.70	77.27	62.57	2,100	NA	460	6.9	7.7	11.9	300
	02/02/06	16.48		60.79	530	NA	11	<0.50	1.2	1.1	560
	04/27/06	7.85		69.42	<300[3]	NA	<1.5[3]	<1.5[3]	<1.5[3]	<1.5[3]	180
	07/12/06	10.08		67.19	250	NA	5.5	<1.0[3]	<1.0[3]	<1.0[3]	190
	10/17/06	12.80		64.47	93	NA	8.8	<0.50	<0.50	<0.50	100
	01/08/07	21.68		55.59	200	NA	14	<0.50	0.89	0.95	85

TABLE 1

GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-4	11/22/95	14.99	76.42	61.43	<50	200	<0.5	1.5	<0.5	1.7	6.4*
	12/06/95	11.21		65.21	NA	NA	NA	NA	NA	NA	NA
	01/04/96	14.62		61.80	NA	NA	NA	NA	NA	NA	NA
	01/31/97	8.18		68.24	<50	<50	<0.5	2	<0.5	2	11*
	10/10/97	14.14		62.28	<50	<50	<0.5	<0.5	<0.5	<2	<5.0*
	01/20/98	7.05		69.37	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	04/28/98	5.88		70.54	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	07/31/98	8.40		68.02	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/02/98	16.08		60.34	NA	NA	NA	NA	NA	NA	NA
	06/10/99	14.81		61.61	NA	NA	NA	NA	NA	NA	NA
	10/18/00	12.71		63.71	<50	<50	<0.5	0.59	0.82	0.53	<5.0*
	03/12/02	8.92		67.50	<50	<50	<0.5	0.61	0.72	2.5	1.8
	11/19/02	13.24		-13.24	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/09/03	11.00		-11.00	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/14/03	11.03		-11.03	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/21/03	13.10		-13.10	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/09/03	13.33		-13.33	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/15/04	12.14		-12.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/08/04	10.76		65.66	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	08/10/04	12.62		63.80	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	11/11/04	11.93		64.49	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/19/05	10.34		66.08	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/14/05	5.66	[4]	NM	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/19/05	7.55	[4]	NM	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/24/05	10.12	76.26	66.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	02/02/06	6.99		69.27	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/27/06	NM		NM	Well Not Monitored or Sampled - Covered						
	07/12/06	6.05		70.21	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/06	NM		NM	Well Not Monitored or Sampled - Covered						
	01/08/07	8.82		67.44	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1

GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57

10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-5	11/22/95	19.56	80.52	60.96	<50	280	<0.5	1.8	<0.5	3	2.2*
	12/06/95	15.84		64.68	NA	NA	NA	NA	NA	NA	NA
	01/04/96	19.36		61.16	NA	NA	NA	NA	NA	NA	NA
	01/31/97	13.31		67.21	80	<50	<0.5	0.6	<0.5	2	6*
	10/10/97	17.80		62.72	<50	<50	<0.5	<0.5	<0.5	<2	<5*
	01/20/98	12.58		67.94	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	04/28/98	9.45		71.07	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	07/31/98	7.38		73.14	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/02/98	15.98		64.54	<50	<500	<0.5	<0.5	<0.5	<0.5	<5.0*
	06/10/99	14.60		65.92	NA	NA	NA	NA	NA	NA	NA
	10/18/00	17.77		62.75	<50	<50	<0.5	0.75	<0.5	0.79	28
	03/12/02	15.72		64.80	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/19/02	NM		NM	Well Damaged						
	01/09/03	NM		NM	Well Damaged						
	04/14/03	NM		NM	Well Damaged						
	07/21/03	NM		NM	Well Damaged						
	10/09/03	NM		NM	Well Damaged						
	01/15/04	NM		NM	Well Damaged						
	04/08/04	16.80		63.72	<100	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	08/10/04	18.58		61.94	89	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	11/11/04	NM		NM	Well Damaged						
	01/19/05	NM		NM	Well Damaged						
	04/14/05	10.57	[4]	NM	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/19/05	11.77	[4]	NM	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/24/05	14.29	80.78	66.49	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	02/02/06	NM		NM	Well Not Monitored or Sampled - Under Soil Pile						
	04/27/06	7.42		73.36	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/12/06	NM		NM	Well Not Monitored or Sampled - Covered						
	10/17/06	NM		NM	Well Not Monitored or Sampled - Covered						
	01/08/07	NM		NM	Well Not Monitored or Sampled - Covered						

TABLE 1

GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57

10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-6	11/22/95	21.73	81.64	59.91	<50	140	<0.5	1.2	<0.5	1.5	5.3*
	12/06/95	18.03		63.61	NA	NA	NA	NA	NA	NA	NA
	01/04/96	21.67		59.97	NA	NA	NA	NA	NA	NA	NA
	01/31/97	16.01		65.63	70	<50	<0.5	2	<0.5	<1	5*
	10/10/97	20.55		61.09	80	<50	<0.5	<0.5	<0.5	<2	<5*
	01/20/98	15.74		65.90	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	04/28/98	10.78		70.86	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	07/31/98	13.97		67.67	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/02/98	17.97		63.67	NA	NA	NA	NA	NA	NA	NA
	06/10/99	16.92		64.72	NA	NA	NA	NA	NA	NA	NA
	10/18/00	NM		NM	Unable to Locate						
	03/12/02	NM		NM	Unable to Locate						
	11/19/02	NM		NM	Unable to Locate						
	01/09/03	NM		NM	Unable to Locate						
	04/14/03	NM		NM	Unable to Locate						
	07/21/03	NM		NM	Unable to Locate						
	10/19/03	NM		NM	Unable to Locate						
	01/15/04	NM		NM	Unable to Locate						
	04/08/04	NM		NM	Well Obstructed - Not Sampled						
	08/10/04	NM		NM	Well Obstructed - Not Sampled						
	11/11/04	NM		NM	Well Obstructed - Not Sampled						
	01/19/05	NM		NM	Well Obstructed - Not Sampled						
	04/14/05	15.78		65.86	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/19/05	NM		NM	Well Obstructed - Not Sampled						
	10/24/05	NM	82.32	NM	Well Obstructed - Not Sampled						
	02/02/06	15.93		66.39	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/27/06	11.00		71.32	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/12/06	12.75		69.57	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/06	15.95		66.37	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/08/07	17.40		64.92	Likely obstructed at 18 ft bgs; contained insufficient water for sampling						

TABLE 1

GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57

10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-7	11/22/95	19.38	78.86	59.48	<50	180	<0.5	0.57	<0.5	0.62	0.73*
	12/06/95	19.72		59.14	NA	NA	NA	NA	NA	NA	NA
	01/04/96	19.76		59.10	NA	NA	NA	NA	NA	NA	NA
	01/31/97	15.25		63.61	70	<50	0.7	1	<0.5	<1	8*
	10/10/97	19.03		59.83	<50	<50	<0.5	<0.5	<0.5	<2	15*
	01/20/98	17.11		61.75	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	04/28/98	8.22		70.64	<50	<50	<0.5	<0.5	<0.5	<0.5	9.3*
	07/31/98	11.53		67.33	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/02/98	15.15		63.71	NA	NA	NA	NA	NA	NA	NA
	06/10/99	14.23		64.63	NA	NA	NA	NA	NA	NA	NA
	10/18/00	17.59		61.27	NA	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	03/12/02	16.54		62.32	<50	<50	<0.5	<0.5	<0.5	<0.5	2.9
	11/19/02	19.59		-19.59	<50	NA	<0.50	<0.50	<0.50	<0.50	3.8
	01/09/03	18.38		-18.38	<50	NA	<0.50	<0.50	<0.50	<0.50	2.7
	04/14/03	18.17		-18.17	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/21/03	20.29		-20.29	<50	NA	<0.50	<0.50	<0.50	<0.50	1.8
	10/09/03	19.48		-19.48	<50	NA	<0.50	<0.50	<0.50	<0.50	2.9
	01/15/04	18.45	79.81	61.36	<50	NA	<0.50	<0.50	<0.50	<0.50	2.6
	04/08/04	17.28		62.53	<50	NA	<0.50	<0.50	<0.50	<0.50	0.81
	08/10/04	18.85		60.96	<50	NA	<0.50	<0.50	<0.50	<0.50	2.1
	11/11/04	19.85		59.96	<50	NA	<0.50	<0.50	<0.50	<0.50	1.0
	01/19/05	19.59		60.22	<50	NA	<0.50	<0.50	<0.50	<0.50	1.5
	04/14/05	14.17		65.64	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/19/05	14.16		65.65	<50	NA	<0.50	<0.50	<0.50	<0.50	1.9
	10/24/05	16.65		63.16	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	02/02/06	15.39		64.42	<50	NA	<0.50	<0.50	<0.50	<0.50	1.3
	04/27/06	8.51		71.30	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/12/06	9.94		69.87	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/06	13.46		66.35	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/08/07	15.03		64.78	<50	NA	<0.50	<0.50	<0.50	<0.50	0.99

TABLE 1

GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57

10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-8	11/22/95	33.33	79.55	46.22	<50	360	<0.5	1.3	<0.5	2.1	2.1*
	12/06/95	17.57		61.98	NA	NA	NA	NA	NA	NA	NA
	01/04/96	20.08		59.47	NA	NA	NA	NA	NA	NA	NA
	01/31/97	18.72		60.83	80	<50	0.6	1	<0.5	1	8*
	10/10/97	20.26		59.29	50	<50	<0.5	<0.5	<0.5	<2	<5*
	01/20/98	15.91		63.64	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	04/28/98	10.39		69.16	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	07/31/98	12.93		66.62	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0*
	11/02/98	16.90		62.65	<50	<500	<0.5	<0.5	<0.5	<0.5	<5.0*
	06/10/99	14.98		64.57	NA	NA	NA	NA	NA	NA	NA
	10/18/00	16.27		63.28	<50	<50	<0.5	<0.5	1.1	6.3	8.6*
	03/12/02	14.56		64.99	<50	<50	<0.5	0.63	0.55	1.7	0.94
	11/19/02	21.14		-21.14	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/09/03	17.90		-17.90	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/14/03	17.84		-17.84	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/21/03	19.79		-19.79	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/09/03	21.02		-21.02	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/15/04	18.10	80.50	62.40	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/08/04	17.51		62.99	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	08/10/04	20.76		59.74	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	11/11/04	21.38		59.12	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/19/05	17.20		63.30	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/14/05	12.68		67.82	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/19/05	15.78		64.72	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/24/05	18.68		61.82	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	02/02/06	14.57		65.93	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	04/27/06	10.48		70.02	<100[2]	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	07/12/06	13.08		67.42	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/06	15.96		64.54	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	01/08/07	16.70		63.80	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1

GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
EX-1	10/24/05	14.37	77.72	63.35	5,000	NA	140	8.4	20	195	360
	02/02/06	1.68		76.04	3,000	NA	3.6	<0.50	14	55.5	0.63
	04/27/06	1.76		75.96	130	NA	0.98	<0.50	<0.50	2.42	<0.50
	07/12/06	6.88		70.84	2,600	NA	760	15	34	104	200
	10/17/06	9.79		67.93	3,300	NA	810	<5.0[3]	32	68	170
	01/08/07	5.47		72.25	910	NA	9.1	<0.50	2.7	5.9	1.6
EX-2	10/24/05	16.00	76.96	60.96	42,000	NA	13,000	1,300	1,300	2,580	410
	02/02/06	8.18		68.78	28,000	NA	9,000	1,300	1,100	3,340	200
	04/27/06	5.22		71.74	24,000	NA	4,000	1,800	650	3,900	86
	07/12/06	7.32		69.64	22,000	NA	6,000	1,300	810	3,280	190
	10/17/06	9.22		67.74	31,000	NA	10,000	1,800	1,200	3,400	230
	01/08/07	10.35		66.61	14,000	NA	4,100	440	440	1,140	90
EX-3	10/24/05	14.85	78.87	63.02	20,000	NA	220	21	660	3,110	<10[3]
	02/02/06	NM		NM	Well Not Monitored or Sampled - Under Soil Pile						
	04/27/06	NM		NM	Well Not Monitored or Sampled - Covered						
	07/12/06	9.01		68.86	5,700	NA	79	19	120	657	<2.5[3]
	10/17/06	NM		NM	Well Not Monitored or Sampled - Covered						
	01/08/07	12.31		66.56	970	NA	8.3	0.81	19	19.8	<0.50
EX-4	10/24/05	14.93	77.96	63.03	1,900	NA	390	69	8.8	90	11
	02/02/06	NM		NM	Well Not Monitored or Sampled - Under Soil Pile						
	04/27/06	NM		NM	Well Not Monitored or Sampled - Covered						
	07/12/06	7.37		70.59	6,400	NA	1,400	400	120	1,220	35
	10/17/06	NM		NM	Well Not Monitored or Sampled - Covered						
	01/08/07	12.92		65.04	3,500	NA	840	51	22	162	25

TABLE 1

GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former USA Service Station No. 57

10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO[5] (µg/L)	TPHD (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)

Note:

* = MTBE analyzed using EPA Method 8020/8021B

MTBE = Methyl tert-butyl ether

TPHD = Total petroleum hydrocarbons as diesel

GRO = Gasoline Range Organics C4-C13

GRO analyzed using EPA Method 8015B and the remaining analytes using EPA Method 8260B

msl = Mean sea level

µg/L = micrograms per liter

NA = Not analyzed

NM = Not measured

[1] Laboratory indicates the chromatogram does not match the diesel hydrocarbon range pattern.

[2] Reporting limits were increased due to sample foaming.

[3] Reporting limits were increased due to high concentrations of target analytes.

[4] Casing elevation invalid - well casing modified (cut) on April 12, 2005.

[5] Reported as total petroleum hydrocarbons as gasoline (TPHG C3-C14+) prior to second quarter 2006.

Monitoring wells surveyed by Morrow Surveying on February 10, 2004, and again on November 29, 2005.

Data prior to November 19, 2002 provided by GHH Engineering.

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
S-1	11/19/02	190	<10	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	11	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	27	<20[2]	<2.0[2]	<2.0[2]	<2.0[2]	NA	NA	NA	NA
	07/21/03	11	<10[2]	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	8.8	6.4	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	6.0	10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	12	8.5	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	73	28	<1.0	<1.0	<1.0	16	<2.0	<5,000	<5,000
	11/11/04	150	14	<1.0	<1.0	<1.0	7.3	<2.0	<5,000	<5,000
	01/19/05	140	14	<1.0	<1.0	<1.0	3.8	<2.0	<5,000	<5,000
	04/14/05	120	10	<1.0	<1.0	<1.0	1.4	<2.0	<5,000	<5,000
	07/19/05	60	11	<1.0	<1.0	<1.0	9.6	<2.0	<5,000	<5,000
	10/24/05	37	<10	<1.0	<1.0	<1.0	2.2	<2.0	<5,000	<5,000
	02/02/06	45	<10	<1.0	<1.0	<1.0	1.2	<2.0	<5,000	<5,000
	04/27/06	7.7	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/12/06	12	<10	<1.0	<1.0	<1.0	7.9	<2.0	<5,000	<5,000
	10/17/06	1.6	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	15	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
S-2	11/19/02	750	<200[1]	<20[1]	<20[1]	<20[1]	NA	NA	NA	NA
	01/09/03	270	<100[1]	<10[1]	<10[1]	<10[1]	NA	NA	NA	NA
	04/14/03	400	95	<5.0[1]	<5.0[1]	<5.0[1]	NA	NA	NA	NA
	07/21/03	410	110	<5.0[1]	<5.0[1]	<5.0[1]	NA	NA	NA	NA
	10/09/03	180	57	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	NA	NA
	01/15/04	130	48	<4.0[1]	<4.0[1]	<4.0[1]	<4.0[1]	<16[1]	NA	NA
	04/08/04	430	130	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	<5,000	<5,000
	08/10/04	92	<100[1]	<10[1]	<10[1]	<10[1]	74	<40[1]	<5,000	<5,000
	11/11/04	420	<200[1]	<20[1]	<20[1]	<20[1]	<20[1]	<80[1]	<5,000	<5,000
	01/19/05	580	200	<5.0[1]	<5.0[1]	<5.0[1]	8.2	<20[1]	<5,000	<5,000
	04/14/05	510	150	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000
	07/19/05	72	37	<1.0	<1.0	<1.0	38	<2.0	<5,000	<5,000
	10/24/05	69	33	<1.0	<1.0	<1.0	35	<4.0[1]	<5,000	<5,000
	02/02/06	340	150	<1.0	<1.0	<1.0	3.2	<4.0[1]	<5,000	<5,000
	04/27/06	81	<10	<1.0	<1.0	<1.0	1.3	<2.0	<5,000	<5,000
	07/12/06	180	42	<1.0	<1.0	<1.0	5.8	<2.0	<5,000	<5,000
	10/17/06	160	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	64	<10	<1.0	<1.0	<1.0	2.6	<2.0	<5,000	<5,000

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-3	04/08/04	19	7.6	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	300	2,000	2.2	<2.0[1]	<2.0[1]	270	<8.0[1]	<5,000	<5,000
	11/11/04	690	1,400	<10[1]	<10[1]	<10[1]	140	<40[1]	<5,000	<5,000
	01/19/05	17	19	<1.0	<1.0	<1.0	1.4	<2.0	<5,000	<5,000
	04/14/05	11	25	<1.0	<1.0	<1.0	6.2	<2.0	<5,000	<5,000
	07/19/05	200	1,000	<2.0[1]	<2.0[1]	<2.0[1]	240	<8.0[1]	<5,000	<5,000
	10/24/05	300	750	<5.0[1]	<5.0[1]	<5.0[1]	210	<20[1]	<5,000	<5,000
	02/02/06	560	1,300	2.7	<1.0	<1.0	98	<4.0[1]	<5,000	<5,000
	04/27/06	180	330	<3.0[1]	<3.0[1]	<3.0[1]	220	<12[1]	<5,000	<5,000
	07/12/06	190	24	<2.0[1]	<2.0[1]	<2.0[1]	210	<8.0[1]	<5,000	<5,000
	10/17/06	100	50	<1.0	<1.0	<1.0	21	<2.0	<5,000	<5,000
	01/08/07	85	30	<1.0	<1.0	<1.0	22	<2.0	<5,000	<5,000

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-4	11/19/02	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	07/21/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	<0.50	7.8	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/27/06	Well Not Monitored or Sampled - Covered								
	07/12/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/17/06	Well Not Monitored or Sampled - Covered								
	01/08/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-5	11/19/02					Well Damaged				
	01/09/03					Well Damaged				
	04/14/03					Well Damaged				
	07/21/03					Well Damaged				
	10/09/03					Well Damaged				
	01/15/04					Well Damaged				
	04/08/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	08/10/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04					Well Damaged				
	01/19/05					Well Damaged				
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06				Well Not Monitored or Sampled - Under Soil Pile					
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	07/12/06				Well Not Monitored or Sampled - Covered					
	10/17/06				Well Not Monitored or Sampled - Covered					
	01/08/07				Well Not Monitored or Sampled - Covered					

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-6	11/19/02				Unable to Locate					
	01/09/03				Unable to Locate					
	04/14/03				Unable to Locate					
	07/21/03				Unable to Locate					
	10/19/03				Unable to Locate					
	01/15/04				Unable to Locate					
	04/08/04				Well Obstructed - Not Sampled					
	08/10/04				Well Obstructed - Not Sampled					
	11/11/04				Well Obstructed - Not Sampled					
	01/19/05				Well Obstructed - Not Sampled					
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05				Well Obstructed - Not Sampled					
	10/24/05				Well Obstructed - Not Sampled					
	02/02/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/12/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/17/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	Likely obstructed at 18 ft bgs; contained insufficient water for sampling								

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-7	11/19/02	3.8	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	2.7	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	07/21/03	1.8	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	2.9	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	2.6	7.9	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	0.81	9.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	2.1	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04	1.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/19/05	1.5	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	1.9	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06	1.3	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/12/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/17/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	0.99	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
MW-8	11/19/02	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	01/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	04/14/03	<0.50	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
	07/21/03	<0.50	<10[2]	<1.0	<1.0	<1.0	NA	NA	NA	NA
	10/09/03	<0.50	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/15/04	<0.50	9.9	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA
	04/08/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	08/10/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	11/11/04	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/14/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/19/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/24/05	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	02/02/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<4.0[2]	<5,000	<5,000
	07/12/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	10/17/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	01/08/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
EX-1	10/24/05	360	120	<1.0	<1.0	<1.0	<1.0	<4.0[1]	<5,000	<5,000
	02/02/06	0.63	<10	<1.0	<1.0	<1.0	<1.0	<4.0[1]	<5,000	<5,000
	04/27/06	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
	07/12/06	200	110	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000
	10/17/06	170	<100[1]	<10[1]	<10[1]	<10[1]	30	<40[1]	<5,000	<5,000
	01/08/07	1.6	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000
EX-2	10/24/05	410	<2,000[1]	<200[1]	<200[1]	<200[1]	<200[1]	<800[1]	<5,000	<5,000
	02/02/06	200	<1,000[1]	<100[1]	<100[1]	<100[1]	<100[1]	<400[1]	<5,000	<5,000
	04/27/06	86	<500[1]	<50[1]	<50[1]	<50[1]	<50[1]	<200[1]	<5,000	<5,000
	07/12/06	190	<500[1]	<50[1]	<50[1]	<50[1]	<50[1]	<200[1]	<5,000	<5,000
	10/17/06	230	<1,000[1]	<100[1]	<100[1]	<100[1]	400	<400[1]	<5,000	<5,000
	01/08/07	90	<400[1]	<40[1]	<40[1]	<40[1]	<40[1]	<160[1]	<5,000	<5,000
EX-3	10/24/05	<10[1]	<200[1]	<20[1]	<20[1]	<20[1]	<20[1]	<80[1]	<5,000	<5,000
	02/02/06	Well Not Monitored or Sampled - Under Soil Pile								
	04/27/06	Well Not Monitored or Sampled - Covered								
	07/12/06	<2.5[1]	<50[1]	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	<5,000	<5,000
	10/17/06	Well Not Monitored or Sampled - Covered								
	01/08/07	<0.50	12	<1.0	<1.0	<1.0	1.1	<2.0	<5,000	<5,000
EX-4	10/24/05	11	51	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	<20[1]	<5,000	<5,000
	02/02/06	Well Not Monitored or Sampled - Under Soil Pile								
	04/27/06	Well Not Monitored or Sampled - Covered								
	07/12/06	35	<200[1]	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000
	10/17/06	Well Not Monitored or Sampled - Covered								
	01/08/07	25	<100[1]	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
FOR OXYGENATES AND ADDITIONAL COMPOUNDS

Former USA Service Station No. 57
10700 MacArthur Blvd., Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Methanol (µg/L)	Ethanol (µg/L)

Note:
Oxygenates analyzed using EPA Method 8260B
µg/L = micrograms per liter
NA = Not analyzed

[1] Reporting limits were increased due to high concentrations of target analytes
[2] Reporting limits were increased due to sample foaming

MTBE = Methyl tertiary butyl ether
TBA = Tertiary butyl alcohol
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane

Table 3
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California
Monitoring Plan Summary

Parameter	Sampling Frequency	Parameter Significance	Sampling Locations
Field Parameters			
pH	Monthly	Optimum pH range for microbial activity is 6. 5 to 7.5.	EX-1 through EX-3, MW-7 MW-8, and all injection wells
Dissolved Oxygen (DO)	Monthly	Oxygen serves as electron acceptor during biodegradation and the microbial activity is directly related to the availability of electron acceptors.	EX-1 through EX-3, MW-7 MW-8, and all injection wells
Laboratory Parameters			
Heterotrophic plate counts	Quarterly	Typical bacterial counts for groundwater range from 10^3 to 10^8 counts per liter and in counts below 10^3 for contaminated groundwater.	EX-1 through EX-3, MW-7 MW-8, and all injection wells
Biochemical Oxygen Demand (BOD)	Quarterly	BOD determines the amount of oxygen required due to biochemical oxidation of organic matter. Increase in BOD is an indication of high oxygen demand (lack of oxygen). A decrease in BOD, accompanied by an increase in DO levels, can be a good indicator of microbial activitity in the subsurface.	EX-1 through EX-3, MW-7 MW-8, and all injection wells
Total Iron & Ferrous iron	Quarterly	Oxygen, a by-product of ozone degradation can react with dissolved iron in groundwater to form ferric oxide, a soluble precipitate.	EX-1 through EX-3, MW-7 MW-8, and all injection wells
Petroleum Hydrocarbons & Oxygenates	Quarterly	Chemicals of concern. Baseline and operational concentration levels will be compared in evaluating performance of oxygen injection system.	EX-1 through EX-3, MW-7 MW-8, and all injection wells
Total Organic Carbon (TOC)	Quarterly	TOC is a measure of total concentration of organic carbon that may be available for biodegradation. Carbon from the petroleum hydrocarbons is the primary energy source for microbes.	EX-1 through EX-3, MW-7 MW-8, and all injection wells
Bioparameters (Nitrates, sulfates, & phosphates)	Quarterly	Nitrates, sulfates and phosphates are nutrients required for microbial growth and reproduction.	EX-1 through EX-3, MW-7 MW-8, and all injection wells
Total dissolved solids (TDS)	Quarterly	TDS is a measure of dissolved inorganic constituents and small amounts of organic matter. Precipitation of inorganic constituents in groundwater due to oxygen injection can result in scaling.	EX-1 through EX-3, MW-7 MW-8, and all injection wells

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
S-1	07/19/05	Injection well	14.11	0.44	6.89	NM	681
	10/24/05	Injection well	16.53	0.95	7.05	NM	503
	01/11/06	Injection well	16.32	NM	NM	NM	NM
	01/20/06	Injection well	15.85	61.1	7.04	155	919
	02/02/06	Injection well	15.27	3.02	7.06	151	1,069
	02/15/06	Injection well	14.47	26.5	7.08	87	887
	03/03/06	Injection well	14.20	18	6.69	96	1,004
	03/24/06	Injection well	13.10	8.8[1]	7.50	322	924
	04/17/06	Injection well	10.40	18.2	7.10	533	916
	04/27/06	Injection well	9.59	15.15	7.27	NM	822
	05/04/06	Injection well	9.55	10.8	7.50	230	808
	05/16/06	Injection well	9.63	15.1	7.60	133	950
	06/09/06	Injection well	9.86	34.5	8.09	315	1,100
	06/30/06	Injection well	10.61	20.8	7.91	183	1,070
	07/10/06	Injection well	10.82	29.6	8.03	173	949
	07/12/06	Injection well	11.00	NM	7.48	NM	799
	08/03/06	Injection well	11.95	18.3	8.60	144	857
	08/25/06	Injection well	12.73	55	7.79	143	766
	09/13/06	Injection well	13.44	OR	7.11	NM	NM
	09/27/06	Injection well	14.03	OR	7.73	184	683
	10/12/06	Injection well	14.43	OR	7.22	239	1,198
	10/17/06	Injection well	14.54	11[2]	7.28	NM	1,241
	11/03/06	Injection well	15.19	14.71[2]	6.43	113	1,225
	11/20/06	Injection well	15.49	6.5	8.60	381	706
[5]	12/18/06	21 feet (to EX-1)	15.89	15.12[2]	6.66	148	1,132
	01/08/07	21 feet (to EX-1)	15.87	1.8	7.39	119	1,156
	01/16/07	21 feet (to EX-1)	15.87	1.8	7.30	119	1,156
	03/14/07	21 feet (to EX-1)	14.68	2.0	7.23	74	985
	03/29/07	21 feet (to EX-1)	15.89	3.1	7.20	80	971

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
S-2	07/19/05	Injection well	16.25	0.74	7.24	NM	669
(injection	10/24/05	Injection well	18.07	NM	6.88	NM	490
well)	01/11/06	Injection well	18.52	NM	NM	NM	NM
	01/20/06	Injection well	18.05	30.1	6.55	166	917
	02/02/06	Injection well	17.26	16.66	6.97	120	2.97
	02/15/06	Injection well	16.61	32.6	7.45	93	850
	03/03/06	Injection well	16.30	23.0	6.79	120	875
	03/24/06	Injection well	14.68	2.8[1]	7.75	283	1,050
	04/17/06	Injection well	12.38	19.0	7.11	521	790
	04/27/06	Injection well	11.55	4.17	7.17	NM	794
	05/04/06	Injection well	11.04	11.2	7.65	192	901
	05/16/06	Injection well	11.47	14.4	7.61	119	933
	06/09/06	Injection well	11.76	33.6	8.10	379	757
	06/30/06	Injection well	12.53	18.5	8.17	168	760
	07/10/06	Injection well	12.77	32.6	8.34	158	727
	07/12/06	Injection well	12.98	NM	7.57	NM	648
	08/03/06	Injection well	13.90	10.3	8.70	126	814
	08/25/06	Injection well	14.73	47.8	7.73	149	679
	09/13/06	Injection well	15.45	OR	6.87	NM	NM
	09/27/06	Injection well	16.03	OR	7.20	193	549
	10/12/06	Injection well	16.45	OR	6.67	241	1,176
	10/17/06	Injection well	16.59	2.71[2]	7.10	NM	1,154
	11/03/06	Injection well	17.21	OR	6.55	120	1,221
	11/20/06	Injection well	17.55	7.1	8.46	428	682
	12/18/06	Injection well	17.97	10.01[2]	6.43	149	1,111
	01/08/07	Injection well	18.21	2.19	7.47	142	1,095
	01/16/07	Injection well	18.21	2.1	7.40	142	1,095
	03/14/07	Injection well	17.95	23.68	7.60	225	976
	03/29/07	Injection well	18.15	25.47	7.70	212	558

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
MW-3	07/19/05	Injection well	11.94	0.53	7.20	NM	784
	10/24/05	Injection well	14.70	1.33	6.66	NM	561
	01/11/06	Injection well	12.57	NM	NM	NM	NM
	01/20/06	Injection well	12.37	30.5	6.14	179	1,855
	02/02/06	Injection well	16.48	11.34	6.91	125	1,898
	02/15/06	Injection well	10.79	34.6	6.67	96	1,760
	03/03/06	Injection well	11.55	31.0	6.47	147	1,712
	03/24/06	Injection well	10.73	9.8[1]	7.20	314	1,540
	04/17/06	Injection well	7.91	17.5	6.83	567	1,442
	04/27/06	Injection well	7.85	19.35	7.10	NM	1,230
	05/04/06	Injection well	8.85	10.2	7.15	259	1,357
	05/16/06	Injection well	9.45	15.6	7.28	147	1,611
	06/09/06	Injection well	9.09	25.1	6.91	325	1,329
	06/30/06	Injection well	9.92	18.8	7.53	152	1,596
	07/10/06	Injection well	9.88	29.5	7.79	155	NM
	07/12/06	Injection well	10.08	NM	7.28	NM	880
	08/03/06	Injection well	11.66	16.1	8.50	159	1,104
	08/25/06	Injection well	11.53	33	7.22	143	941
	09/13/06	Injection well	11.46	OR	4.04	NM	NM
	09/27/06	Injection well	12.47	OR	7.75	181	3,421
	10/12/06	Injection well	12.10	OR	7.19	242	3,457
	10/17/06	Injection well	12.80	0.0	7.34	NM	3.23
[3]	11/03/06	Injection well	NM	NM	NM	NM	NM
	11/20/06	Injection well	13.72	4.4	8.28	380	851
[5]	12/18/06	15 feet (to EX-2)	13.47	OR	6.79	84	2,122
	01/08/07	15 feet (to EX-2)	21.68	10.04	7.19	247	262
	01/16/07	15 feet (to EX-2)	21.68	10.04	7.10	247	262
	03/14/07	15 feet (to EX-2)	10.97	4.6	8.00	133	521
	03/29/07	15 feet (to EX-2)	11.85	4.7	7.90	120	612

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
MW-7	07/19/05	70 feet (to S-1)	14.16	NM	7.46	NM	651
	10/24/05	70 feet (to S-1)	16.65	NM	7.41	NM	493
	01/11/06	70 feet (to S-1)	17.05	NM	NM	NM	NM
	01/20/06	70 feet (to S-1)	16.20	2.0	6.49	105	841
	02/02/06	70 feet (to S-1)	15.39	2.04	7.30	38	763
	02/15/06	70 feet (to S-1)	13.74	2.9	6.91	8	828
	03/03/06	70 feet (to S-1)	13.26	8.2	7.19	97	853
	03/24/06	70 feet (to S-1)	11.99	2.6[1]	8.20	202	844
	04/17/06	70 feet (to S-1)	9.40	7.2	7.68	429	876
	04/27/06	70 feet (to S-1)	8.51	2.01	8.02	NM	878
	05/04/06	70 feet (to S-1)	8.37	5.4	8.29	88	855
	05/16/06	70 feet (to S-1)	8.43	9.8	7.51	72	856
	06/09/06	70 feet (to S-1)	8.74	4.6	7.68	376	777
	06/30/06	70 feet (to S-1)	9.50	4.6	8.26	162	787
	07/10/06	70 feet (to S-1)	9.77	4.7	8.56	135	796
	07/12/06	70 feet (to S-1)	9.94	1.82	7.92	12	759
	08/03/06	70 feet (to S-1)	10.83	3.5	8.70	34	760
	08/25/06	70 feet (to S-1)	11.71	6.6	7.50	130	728
	09/13/06	70 feet (to S-1)	12.44	4.34	6.90	NM	NM
	09/27/06	70 feet (to S-1)	13.01	3.95	7.79	137	1,261
	10/12/06	70 feet (to S-1)	13.46	2.96	7.01	244	1,194
	10/17/06	70 feet (to S-1)	13.46	1.69[2]	7.33	NM	1,179
	11/03/06	70 feet (to S-1)	14.21	5.11[2]	6.86	210	1,185
	11/20/06	70 feet (to S-1)	14.54	6.7	9.10	170	740
	12/18/06	80 feet (to EX-1)	14.95	2.94[2]	6.93	142	656
	01/08/07	80 feet (to EX-1)	15.03	1.88	7.73	144	770
	01/16/07	80 feet (to EX-1)	15.03	1.8	7.70	144	770
	03/14/07	80 feet (to EX-1)	14.99	2.9	7.63	193	1,021
	03/29/07	80 feet (to EX-1)	15.13	6.4	7.80	149	935

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
MW-8	07/19/05	47 feet (to MW-3)	15.78	7.55	7.14	NM	798
	10/24/05	47 feet (to MW-3)	18.68	5.35	6.88	NM	480
	01/11/06	47 feet (to MW-3)	15.49	NM	NM	NM	NM
	01/20/06	47 feet (to MW-3)	15.36	8.20	5.97	124	541
	02/02/06	47 feet (to MW-3)	14.57	8.7	6.83	105	6.34
	02/15/06	47 feet (to MW-3)	13.82	6.6	6.28	10	459
	03/03/06	47 feet (to MW-3)	14.38	8.2	6.35	116	1,953
	03/24/06	47 feet (to MW-3)	12.83	2.7[1]	7.30	256	1,695
	04/17/06	47 feet (to MW-3)	10.72	8.1	6.66	510	1,464
	04/27/06	47 feet (to MW-3)	10.48	6.61	7.01	NM	1,400
	05/04/06	47 feet (to MW-3)	11.04	6.1	7.65	156	1,507
	05/16/06	47 feet (to MW-3)	11.86	8.3	6.97	101	1,733
	06/09/06	47 feet (to MW-3)	12.32	6.6	7.09	406	1,336
	06/30/06	47 feet (to MW-3)	12.79	7.7	7.15	156	1,729
	07/10/06	47 feet (to MW-3)	13.00	7.2	7.37	163	1,435
	07/12/06	47 feet (to MW-3)	13.08	0.63	6.94	69	1,018
	08/03/06	47 feet (to MW-3)	14.10	4.5	8.50	121	1,065
	08/25/06	47 feet (to MW-3)	14.55	7.4	6.82	172	815
	09/13/06	47 feet (to MW-3)	15.02	6.22	6.42	NM	NM
	09/27/06	47 feet (to MW-3)	15.51	6.28	6.58	122	3,999
	10/12/06	47 feet (to MW-3)	15.85	5.67	6.39	77	3,999
	10/17/06	47 feet (to MW-3)	15.96	6.13[2]	6.97	NM	6.70
[4]	11/03/06	47 feet (to MW-3)	NM	NM	NM	NM	NM
	11/20/06	47 feet (to MW-3)	16.87	3.8	7.67	394	890
	12/18/06	63 feet (to EX-2)	NM	NM	NM	NM	NM
	01/08/07	63 feet (to EX-2)	16.70	1.91	7.08	NM	752
	01/16/07	63 feet (to EX-2)	16.70	1.90	7.00	NM	752
	03/14/07	63 feet (to EX-2)	15.02	5.70	7.00	206	729
	03/29/07	63 feet (to EX-2)	15.97	7.30	7.00	185	706

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
EX-1	10/24/05	20 feet (to S-1)	14.37	1.15	6.56	NM	585
	01/11/06	20 feet (to S-1)	3.11	NM	NM	NM	NM
	01/20/06	20 feet (to S-1)	2.13	2.50	6.79	116	631
	02/02/06	20 feet (to S-1)	1.68	5.84	7.65	128	463
	02/15/06	20 feet (to S-1)	2.27	2.00	7.10	4	646
	03/03/06	20 feet (to S-1)	NM	NM	NM	NM	NM
	03/24/06	20 feet (to S-1)	NM	NM	NM	NM	NM
	04/17/06	20 feet (to S-1)	1.15	7.1	7.40	542	542
	04/27/06	20 feet (to S-1)	1.76	2.4	7.39	NM	609
	05/04/06	20 feet (to S-1)	NM	NM	NM	NM	NM
	05/16/06	20 feet (to S-1)	NM	NM	NM	NM	NM
	06/09/06	20 feet (to S-1)	6.77	2.2	7.62	326	807
	06/30/06	20 feet (to S-1)	6.64	5.2	7.95	183	817
	07/10/06	20 feet (to S-1)	6.71	2.5	8.02	163	767
	07/12/06	20 feet (to S-1)	6.88	0.80	7.48	-10	944
	08/03/06	20 feet (to S-1)	NM	NM	NM	NM	NM
	08/25/06	20 feet (to S-1)	9.14	5.4	7.34	121	690
	09/13/06	20 feet (to S-1)	8.82	3.09	7.01	NM	NM
	09/27/06	20 feet (to S-1)	9.25	3.73	7.23	205	1,104
	10/12/06	20 feet (to S-1)	9.67	2.84	6.93	238	1,145
	10/17/06	20 feet (to S-1)	9.79	1.97[2]	6.90	NM	1,624
	11/03/06	20 feet (to S-1)	10.91	2.19[2]	6.50	170	1,198
	11/20/06	20 feet (to S-1)	10.58	4.4	8.61	398	654
	12/18/06	Injection well	5.63	2.74[2]	6.81	149	741
	01/08/07	Injection well	5.47	3.1	7.56	191	708
	01/16/07	Injection well	5.47	3.1	7.50	191	708
	03/14/07	Injection well	3.07	14.84	7.60	231	692
	03/29/07	Injection well	4.47	11.89	7.69	216	700

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
EX-2	10/24/05	15 feet (to MW-3)	16.00	2.83	6.85	NM	588
	01/11/06	15 feet (to MW-3)	10.22	NM	NM	NM	NM
	01/20/06	15 feet (to MW-3)	8.98	2.90	5.93	157	1,570
	02/02/06	15 feet (to MW-3)	8.18	15.60	6.87	138	18.99
	02/15/06	15 feet (to MW-3)	7.74	2.20	6.49	58	1,472
	03/03/06	15 feet (to MW-3)	NM	NM	NM	NM	NM
	03/24/06	15 feet (to MW-3)	NM	NM	NM	NM	NM
	04/17/06	15 feet (to MW-3)	5.74	5.6	6.86	555	1,223
	04/27/06	15 feet (to MW-3)	5.22	2.48	7.17	NM	1,184
	05/04/06	15 feet (to MW-3)	NM	NM	NM	NM	NM
	05/16/06	15 feet (to MW-3)	NM	NM	NM	NM	NM
	06/09/06	15 feet (to MW-3)	8.00	4.6	7.51	374	1,190
	06/30/06	15 feet (to MW-3)	7.37	2.0	7.52	9	1,286
	07/10/06	15 feet (to MW-3)	7.16	1.8	7.69	44	1,210
	07/12/06	15 feet (to MW-3)	7.32	1.0	7.43	-4	1,169
	08/03/06	15 feet (to MW-3)	NM	NM	NM	NM	NM
	08/25/06	15 feet (to MW-3)	8.69	1.4	7.08	127	937
	09/13/06	15 feet (to MW-3)	8.51	1.25	6.58	NM	NM
	09/27/06	15 feet (to MW-3)	8.96	1.41	6.78	11	2,114
	10/12/06	15 feet (to MW-3)	9.10	0.63	6.64	38	2,062
	10/17/06	15 feet (to MW-3)	9.22	1.97[2]	6.97	NM	1,896
	11/03/06	15 feet (to MW-3)	9.78	0.72[2]	6.45	84	1,903
	11/20/06	15 feet (to MW-3)	9.87	3.6	8.10	388	887
	12/18/06	Injection well	9.70	1.28[2]	6.60	93	1,875
	01/08/07	Injection well	10.35	4.83	7.26	70	1,717
	01/16/07	Injection well	10.35	4.8	7.20	70	1,717
	03/14/07	Injection well	8.83	8.8	7.50	143	1,229
	03/29/07	Injection well	9.41	7.5	7.50	103	1,322

TABLE 4

Physical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard Oakland, California

Well Number	Date	Distance to nearest injection well	Depth to water feet bgs	DO mg/L	pH	ORP mV	Specific Conductivity millisiemen
EX-3	10/24/05	45 feet (to S-2)	14.93	NM	7.06	NM	676
	01/11/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	01/20/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	02/02/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	02/15/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	03/03/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	03/24/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	04/17/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	04/27/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	05/04/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	05/16/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	06/09/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	06/30/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	07/10/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	07/12/06	45 feet (to S-2)	9.01	0.5	7.40	0	894
	08/03/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	08/25/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	09/13/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	09/27/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	10/12/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	10/17/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	11/03/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	11/20/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	12/18/06	45 feet (to S-2)	NM	NM	NM	NM	NM
	01/08/07	45 feet (to S-2)	12.31	2.42	7.15	-40	1,234
	01/16/07	45 feet (to S-2)	12.31	2.4	7.10	-40	1,234
	03/14/07	45 feet (to S-2)	NM	NM	NM	NM	NM
	03/29/07	45 feet (to S-2)	NM	NM	NM	NM	NM

NOTES:

pH, specific conductivity, ORP and DO were measured on site using field instruments
NM = Not Measured
OR = Over the range of the field instrument
[1] DO instrument appears to have malfunctioned
[2] DO was originally measured in % and then converted to mg/L [DO in mg/L = 0.10* DO in %]
[3] Not measured since well was hidden under dirt pile
[4] Not measured due to well blocked off by spools
[5] Removed iSOC unit from well

TABLE 5

Analytical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard, Oakland, California

Well Number	Date	Distance to nearest injection well	BOD [1] µg/L	Heterotrophic plate count [2] CFU/ml	TOC [3] µg/L	Ferrous iron [4] µg/L	Total iron [4] µg/L	Nitrite as NO_2 [5] µg/L	Nitrate as NO_3 [5] µg/L	Ammonia Nitrogen [6] µg/L	Sulfate as SO_4 [5] µg/L	Sulfide [7] µg/L	Total Ortho-phosphates [8] µg/L	TDS [9] µg/L	Total Phosphorus [8] µg/L
S-1	01/11/06	Injection well	<3,000	3,000	7,800	<50	690	<250	<250	<100	32,000	<100	190	NA	120
S-2	01/11/06	Injection well	19,000	18,000	6,600	<50	<300	<250	<250	<100	2,500	<100	120	NA	<100
MW-3	01/11/06	Injection well	<3,000	23,000	3,400	<50	420	<250	<250	<100	15,000	<100	130	NA	120
MW-7	01/11/06	70	<3,000	19,000	3,900	<50	<300	<250	600	<100	21,000	<100	180	NA	180
	04/27/06	70	<3,000	24	2,300	<50	<300	<250	2,400	<100	50,000	<100	210	660,000	150
	07/12/06	70	<3,000	33	2,500	<50	<300	<250	2,600	<100	56,000	<100	130	670,000	<100
	10/17/06	70	<3,000	8	3,400	<50	1,300	<250	2,200	<100	55,000	<100	<100	650,000	<100
	01/08/07	80	<3,000	100	2,400	<50	1,000	<250	2,400	<100	59,000	<100	110	630,000	120
MW-8	01/11/06	47	<3,000	380	1,500	<50	1,500	<250	4,100	<100	62,000	<100	190	NA	170
	04/27/06	47	<3,000	660	1,000	<50	3,200	<250	4,200	<100	66,000	120	230	5,900,000	140
	07/12/06	47	<3,000	S[1]	2,100	<50	5,300	<250	4,800	<100	79,000	<100	180	2,400,000	170
	10/17/06	47	<3,000	3,500	1,900	<50	3,600	<250	4,500	<100	79,000	<100	<100	5,400,000	130
	01/08/07	63	<3,000	600	2,200	<50	7,300	8,500	4,300	<100	84,000	<100	230	5,600,000	160
EX-1	01/11/06	20	<3,000	4,500	9,500	<50	540	<250	1,400	<100	69,000	<100	220	NA	200
	04/27/06	20	<3,000	9,800	6,800	<50	6,000	<250	260	<100	69,000	<100	160	400,000	290
	07/12/06	20	25,000	19,000	26,000	230	7,400	<250	<250	1,200	8,600	<100	300	1,100,000	220
	10/17/06	20	32,000	11,000	30,000	60	53,000	<250	<250	1,800	4,700	<100	<100	1,000,000	330
	01/08/07	Injection well	4,100	11,000[2]	6,300	<50	5,500	<250	850	<100	60,000	<100	170	390,000	120
EX-2	01/11/06	15	48,000	85,000	17,000	<50	1,200	<250	<250	120	21,000	<100	230	NA	140
	04/27/06	15	22,000	82,000	17,000	<50	770	<250	<250	<100	22,000	<100	140	1,200,000	240
	07/12/06	15	23,000	41,000	17,000	<50	2,000	<250	<250	<100	6,700	<100	220	1,200,000	150
	10/17/06	15	38,000	3,600	18,000	<50	37,000	<250	<250	<100	<500	<100	<100	1,200,000	<100
	01/08/07	Injection well	14,000	41,000	14,000	<50	20,000	420	<250	<100	5,000	<100	140	960,000	250

STRATUS

TABLE 5

Analytical Parameter Summary

Former USA Service Station No. 57
10700 McArthur Boulevard, Oakland, California

Well Number	Date	Distance to nearest injection well	BOD [1] µg/L	Heterotrophic plate count [2] CFU/ml	TOC [3] µg/L	Ferrous iron [4] µg/L	Total iron [4] µg/L	Nitrite as NO_2 [5] µg/L	Nitrate as NO_3 [5] µg/L	Ammonia Nitrogen [6] µg/L	Sulfate as SO_4 [5] µg/L	Sulfide [7] µg/L	Total Ortho-phosphates [8] µg/L	TDS [9] µg/L	Total Phosphorus [8] µg/L
EX-3	07/12/06	45	9,400	15,000	14,000	<50	14,000	<250	<250	<100	32,000	220	320	930,000	250
	10/17/06	45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/08/07	45	9,900	6,600	11,000	130	54,000	<250	<250	<100	31,000	<100	160	840,000	370

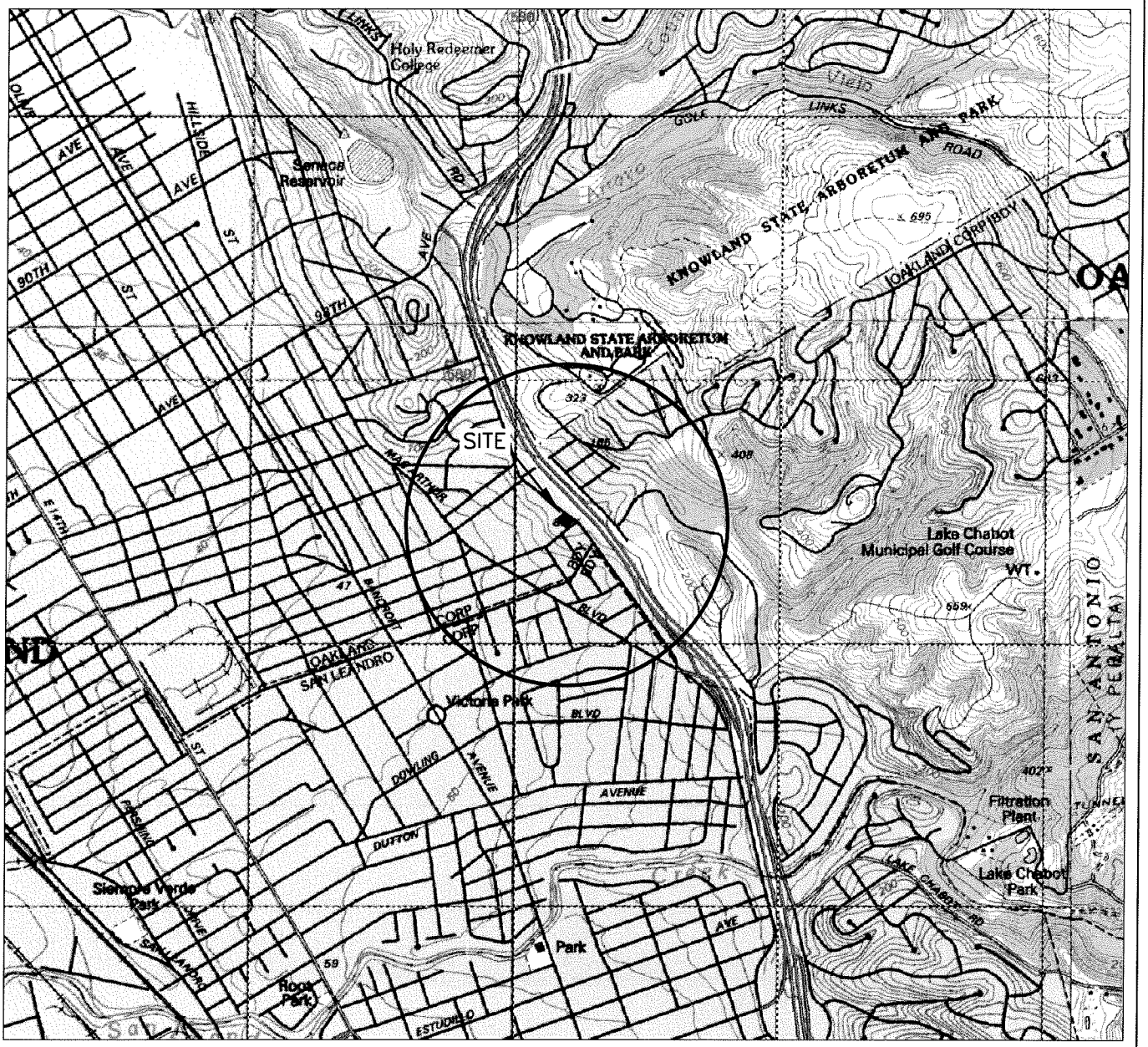
NOTES:

[1] Biochemcial oxygen demand (BOD) was analyzed using EPA Method 405.1
[2] Heterotrophic plate count (HPC) was conducted using SM 9215
[3] Total organic carbon (TOC) was analyzed using EPA Method 415.1
[4] Ferrous iron & Total iron was analyzed using SM3500-Fe D
[5] Nitrite, nitrate and sulfates were analyzed using EPA Method 300.0
[6] Ammonia nitrogen was analyzed using EPA Method 350.3
[7] Sulfide was analyzed using EPA Method 376.2
[8] Total orthophosphate and total phosphorus were analyzed by EPA Method 365.2
[9] Total dissolved solids (TDS) analyzed using EPA Method 160.1

µg/L = micrograms per liter
NA = Not analyzed
NS = Not sampled

S[1] = Spreaders frequently cover more than half the plate and interfere with obtaining a reliable plate count.
[2] = This sample was extracted/analyzed outside the EPA recommended holding time.

STRATUS



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
OAKLAND, CA
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

QUADRANGLE LOCATION

North

0 2000 FT

SCALE 1:24,000

STRATUS
ENVIRONMENTAL, INC.

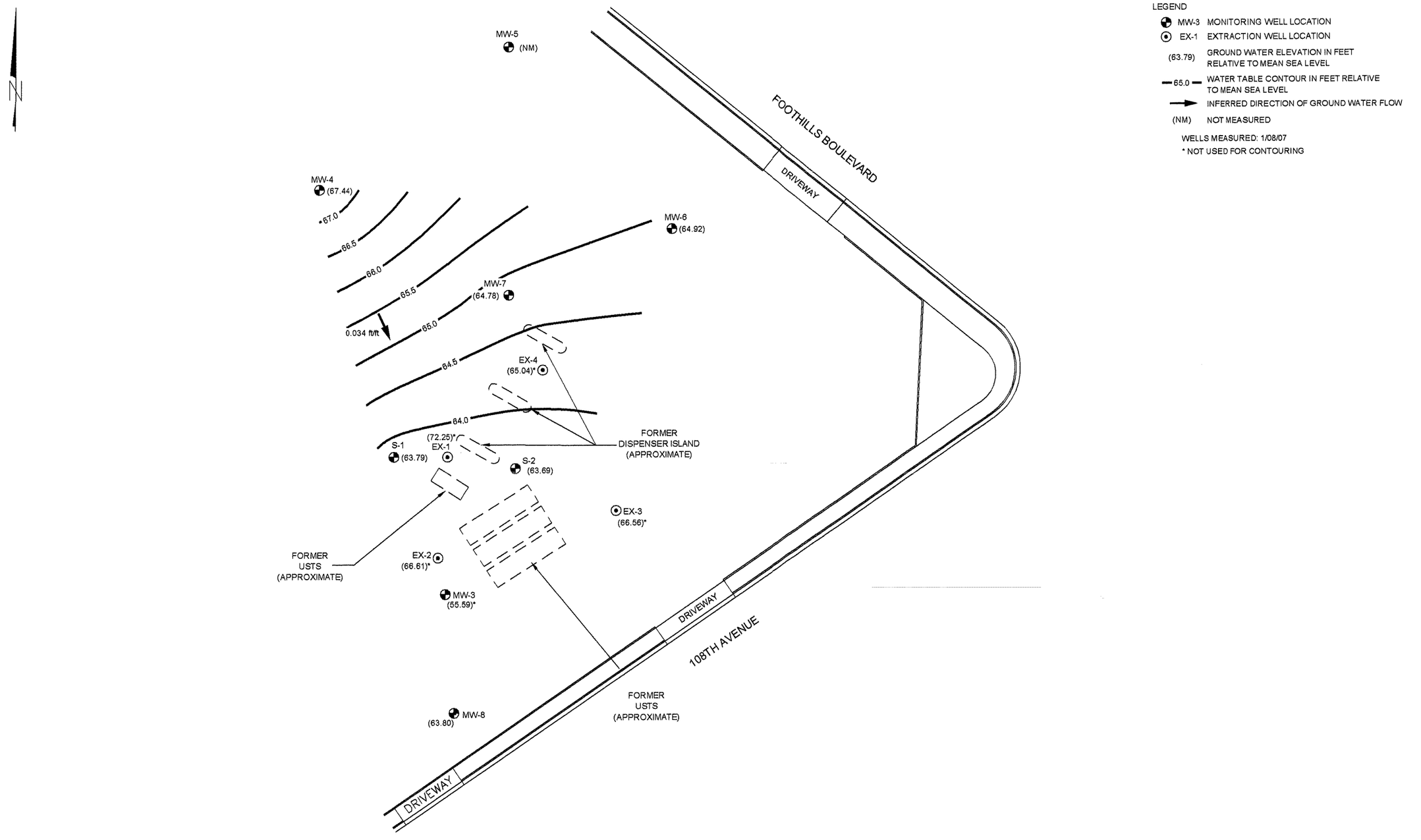
FORMER USA SERVICE STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE
1

PROJECT NO.
2007-0057-01

USA\57\Quarterly JMP Feb 16, 2007 USA 57Site Location Map.dwg



STRATUS ENVIRONMENTAL, INC.

0 40 FT
HORZ. SCALE

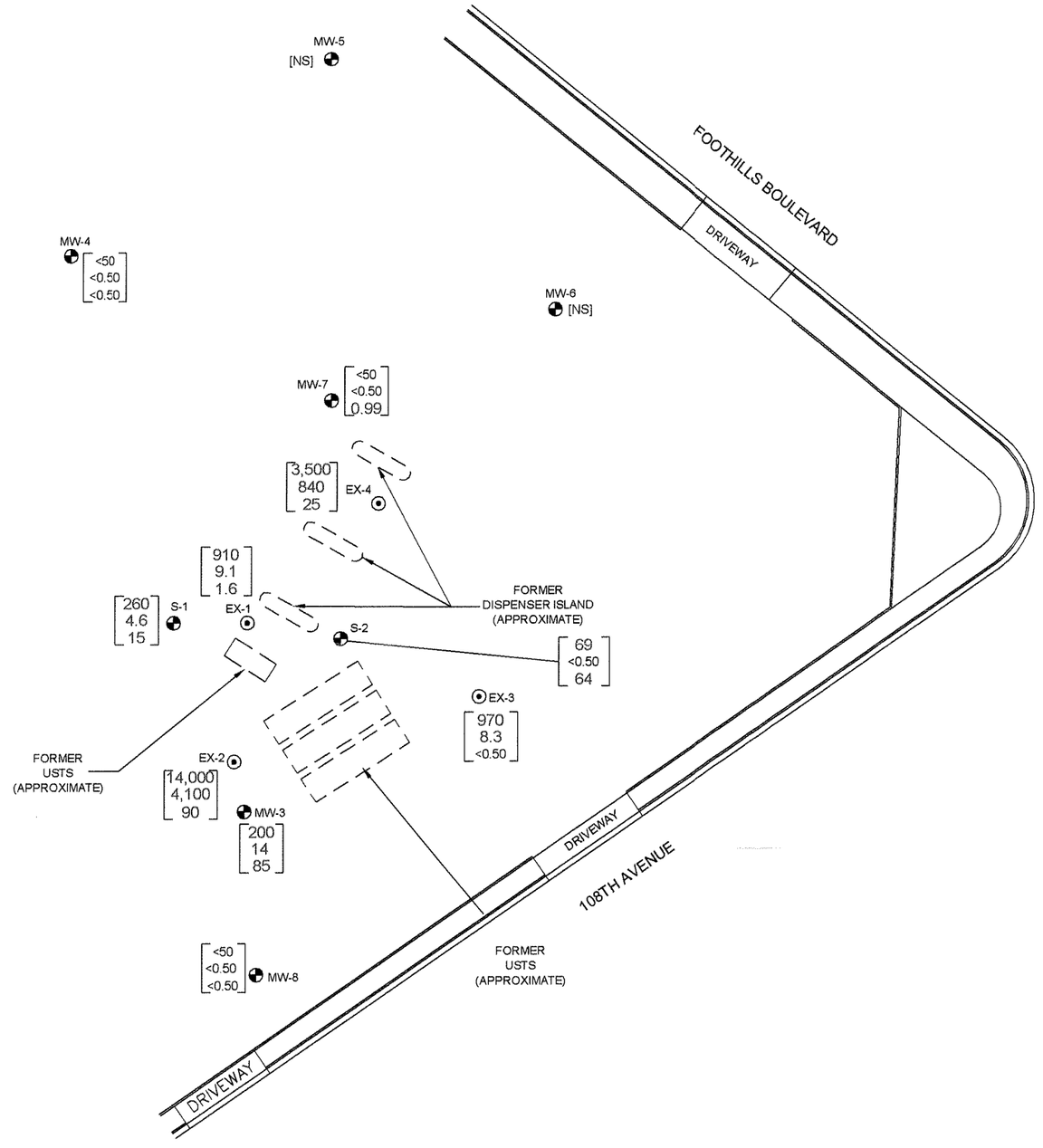
FORMER USA SERVICE STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
1st QUARTER 2007

FIGURE
2

PROJECT NO.
2007-0057-01

JMP REV Feb 16, 2007 USA 57 Quarterly Figure.dwg
USA57\Quarterly



LEGEND

MW-3 MONITORING WELL LOCATION

EX-1 EXTRACTION WELL LOCATION

[<50 / <0.50 / <0.50] GASOLINE RANGE ORGANICS (GRO) IN µg/L; BENZENE CONCENTRATION IN µg/L; METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L

[NS] NOT SAMPLED

SAMPLES COLLECTED ON 1/08/07

GRO ANALYZED BY EPA METHOD 8015B

BENZENE & MTBE ANALYZED BY EPA METHOD 8260B

STRATUS ENVIRONMENTAL, INC.

0 40 FT

HORZ. SCALE

FORMER USA SERVICE STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY
1st QUARTER 2007

FIGURE
3

PROJECT NO.
2007-0057-01

JMP REV Mar 01, 2007 USA 57 Quarterly Figure.dwg

USA57\Quarterly

Figure 4
DO Variation with Time at Injection Wells
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

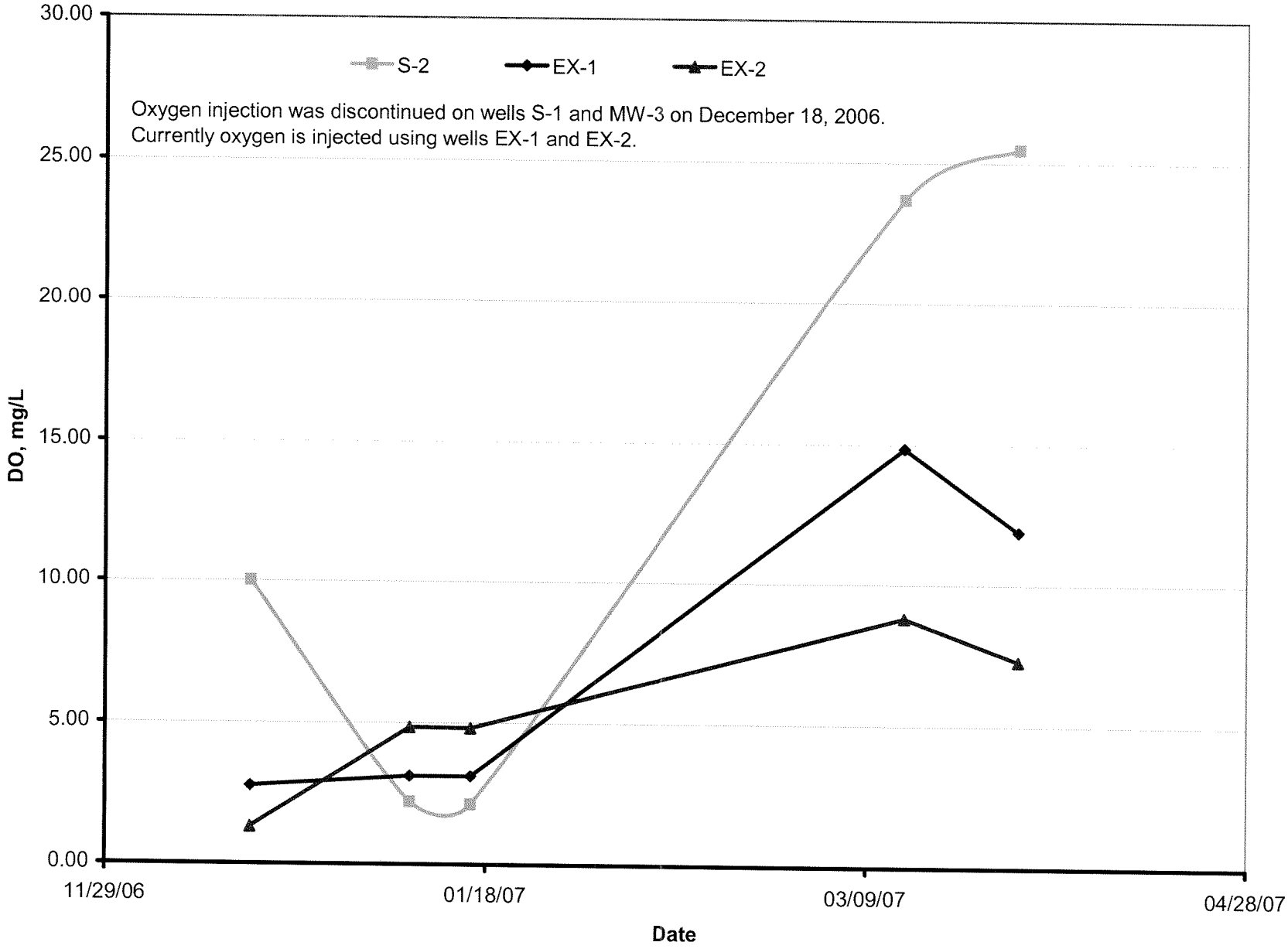


Figure 5
DO Variation with Time at Observation and Background Wells
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

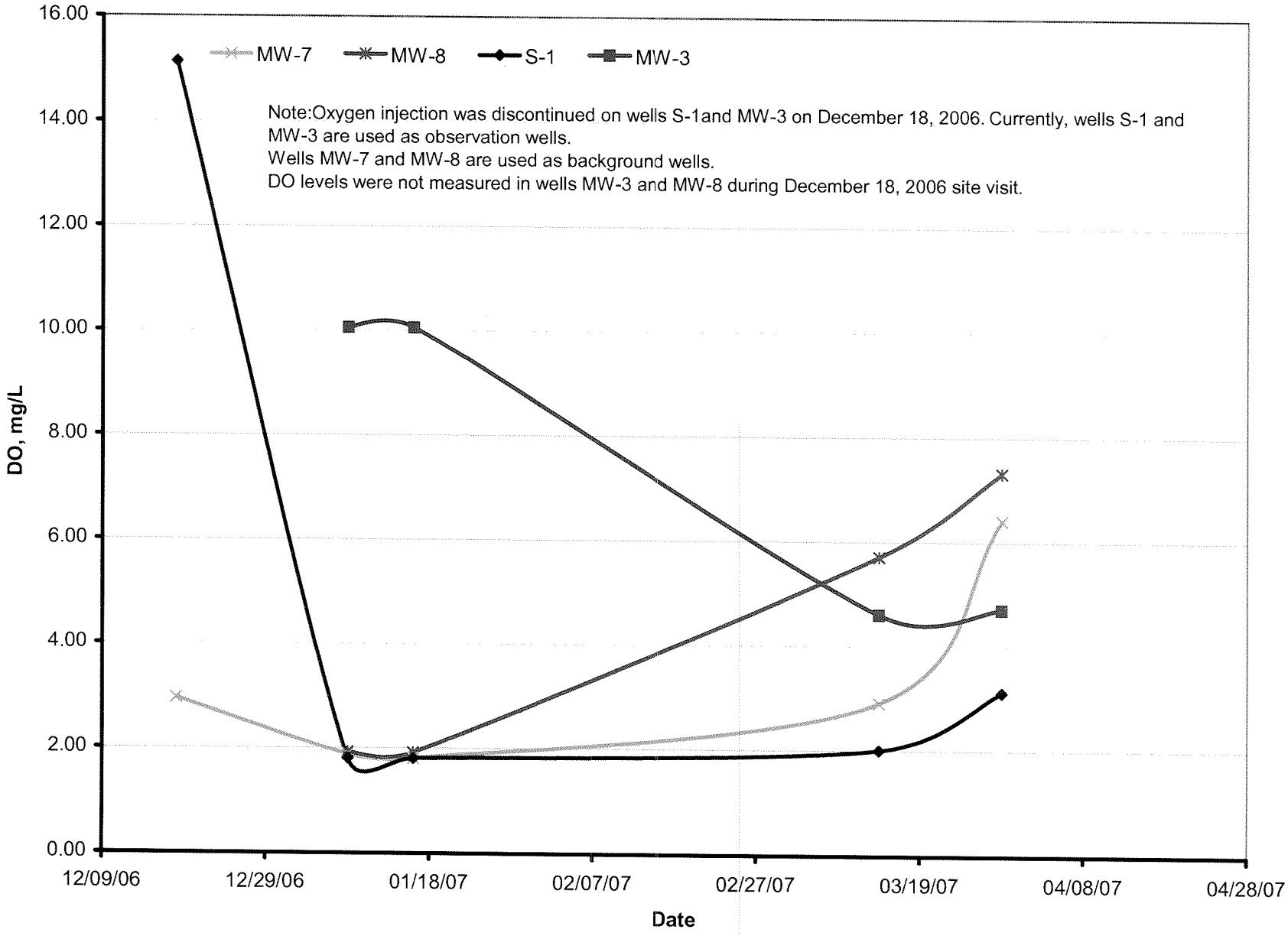


Figure 6
GRO, Benzene, MTBE, and Depth to Water Variation with Time at S-1
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

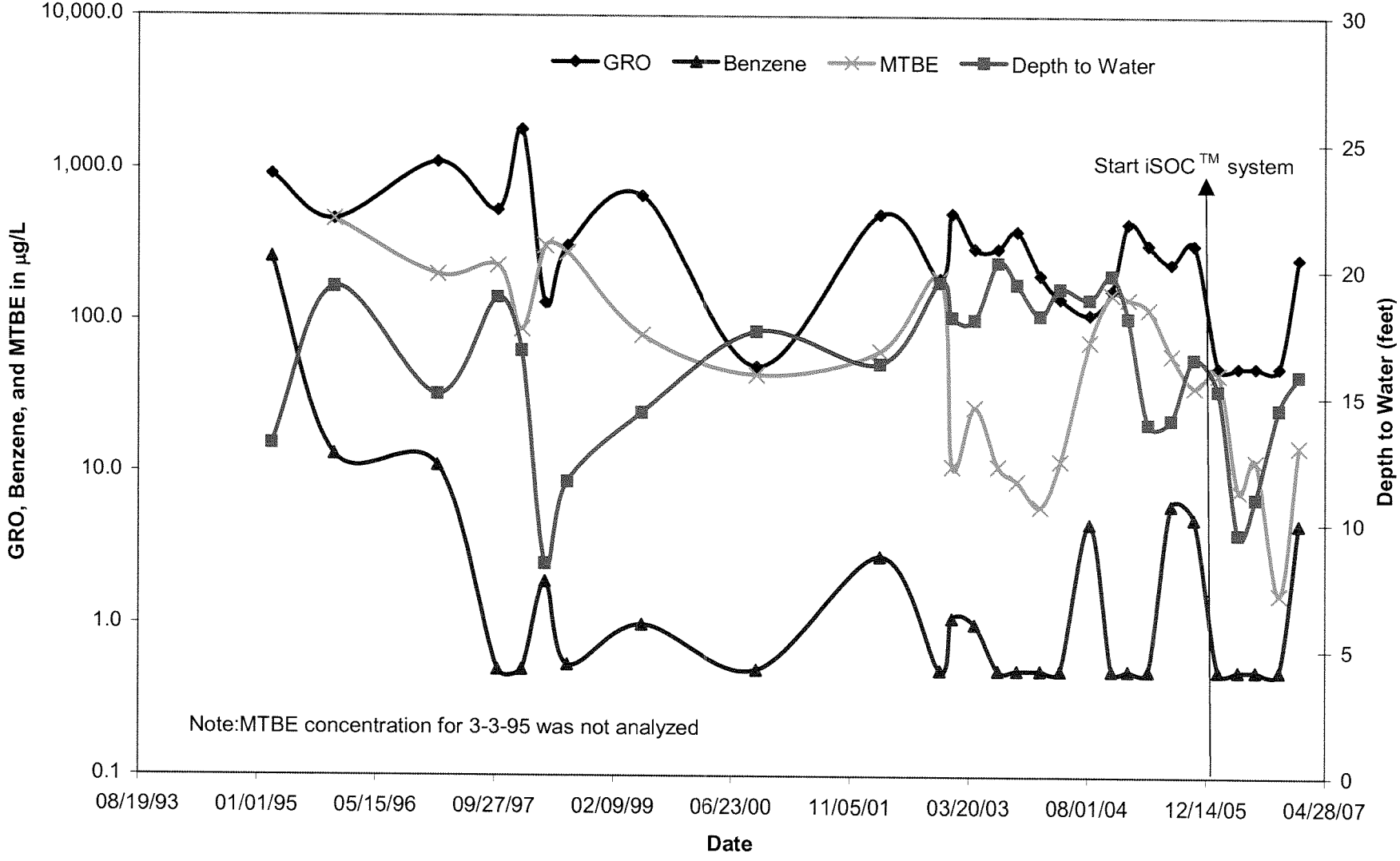


Figure 7
GRO, Benzene, MTBE, and Depth to Water Variation with Time at S-2
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

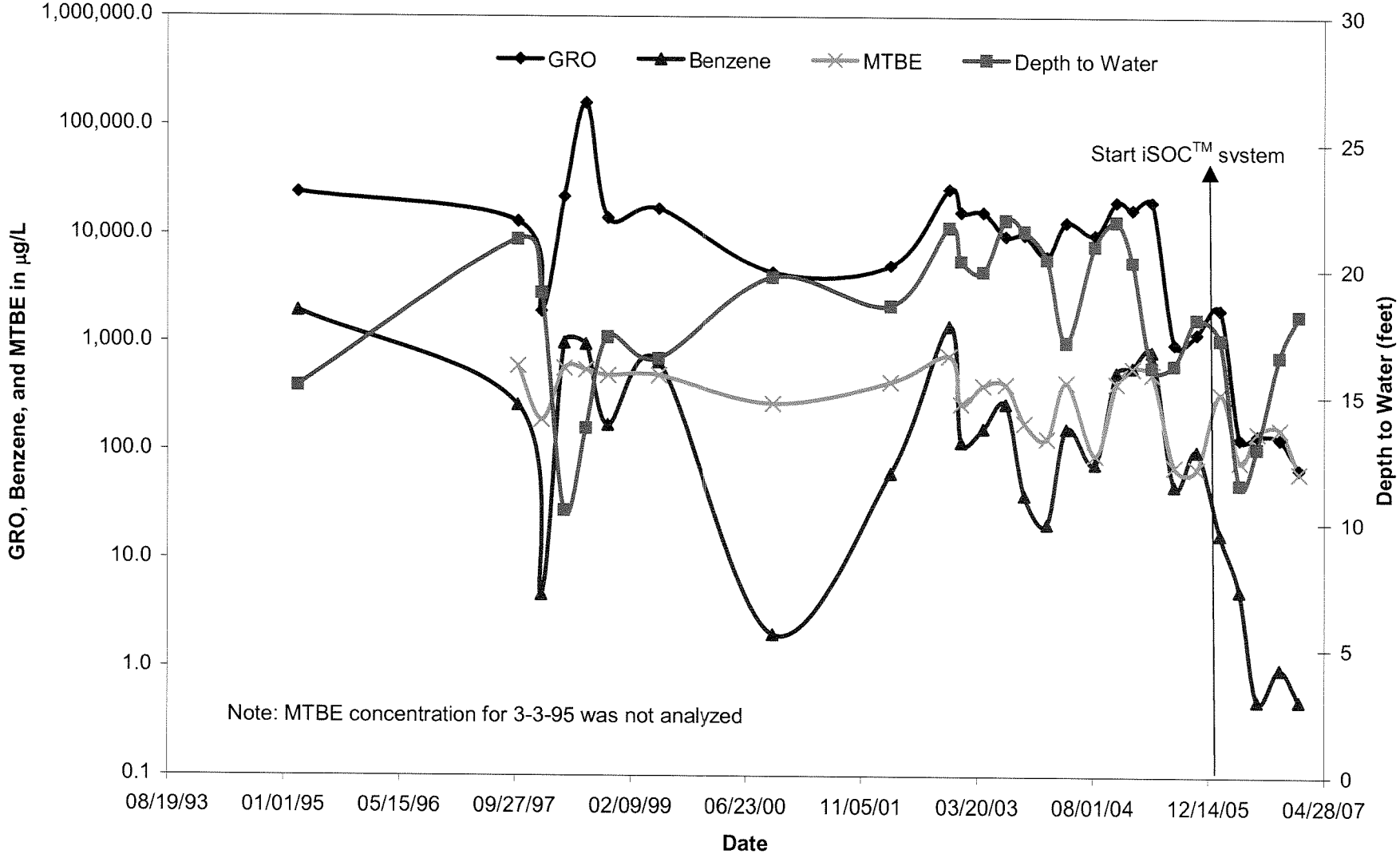


Figure 8
GRO, Benzene, MTBE, and Depth to Water Variation with Time at MW-3
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

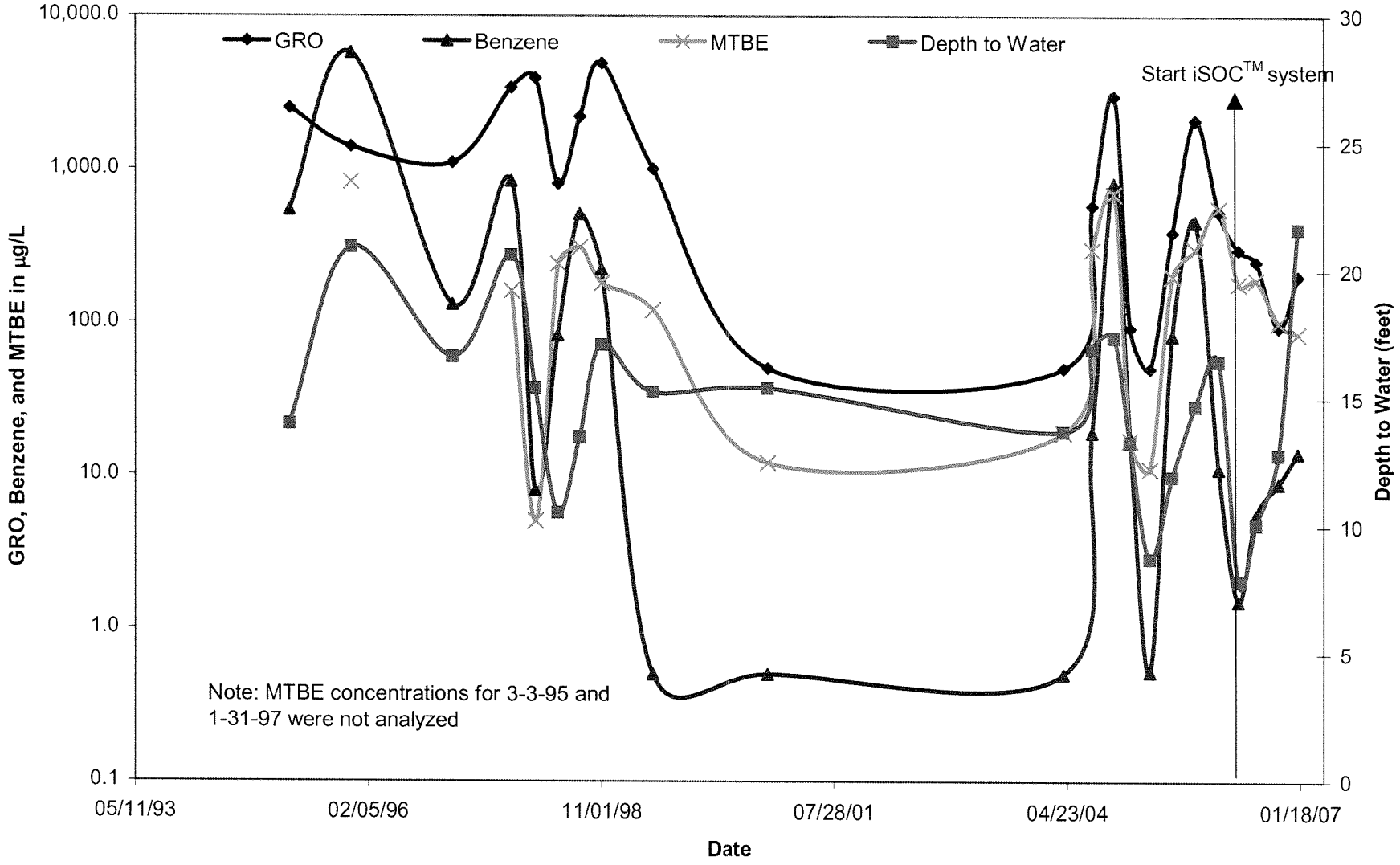


Figure 9
GRO, Benzene, MTBE, and Depth to Water Variation with Time at EX-1
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

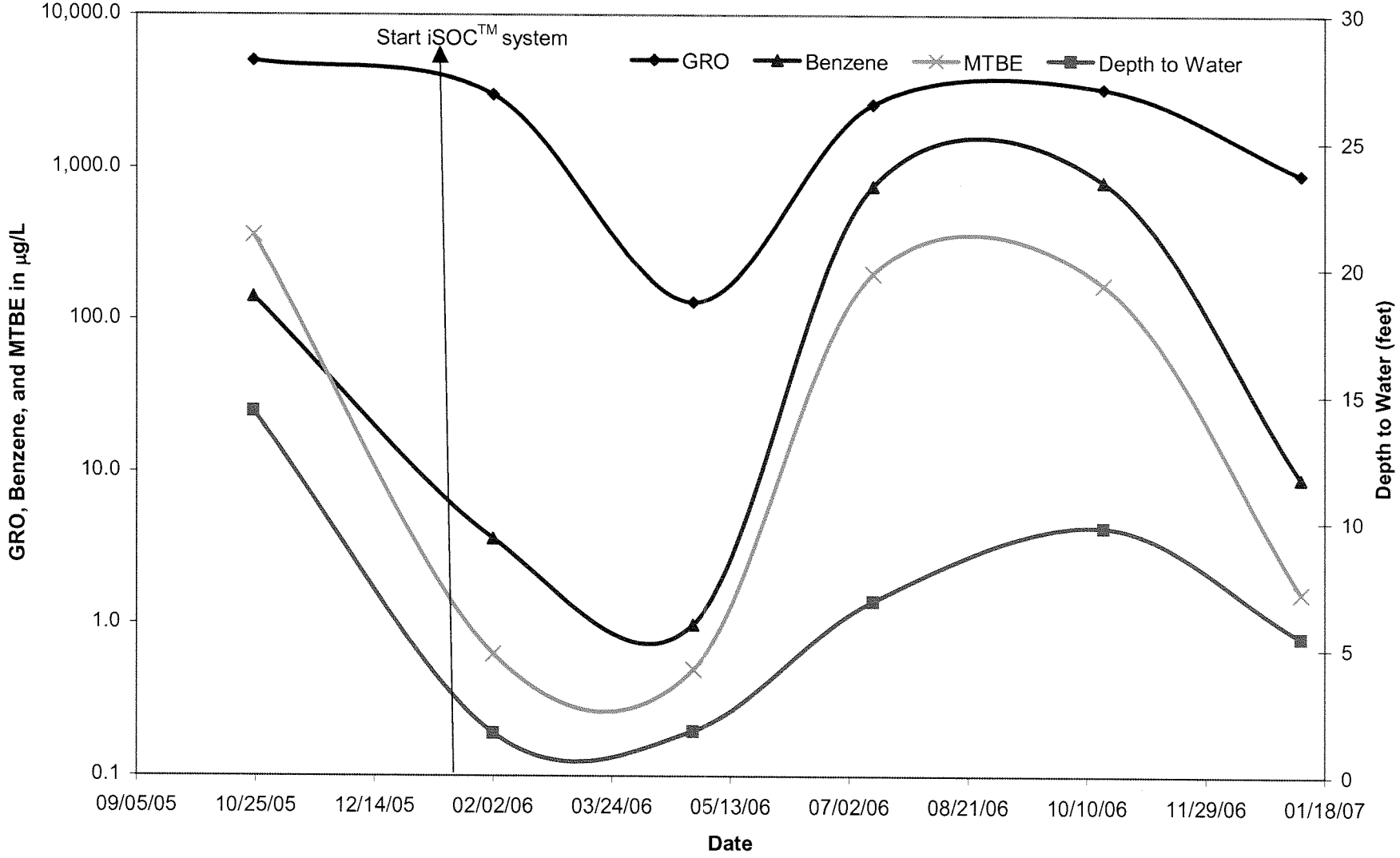
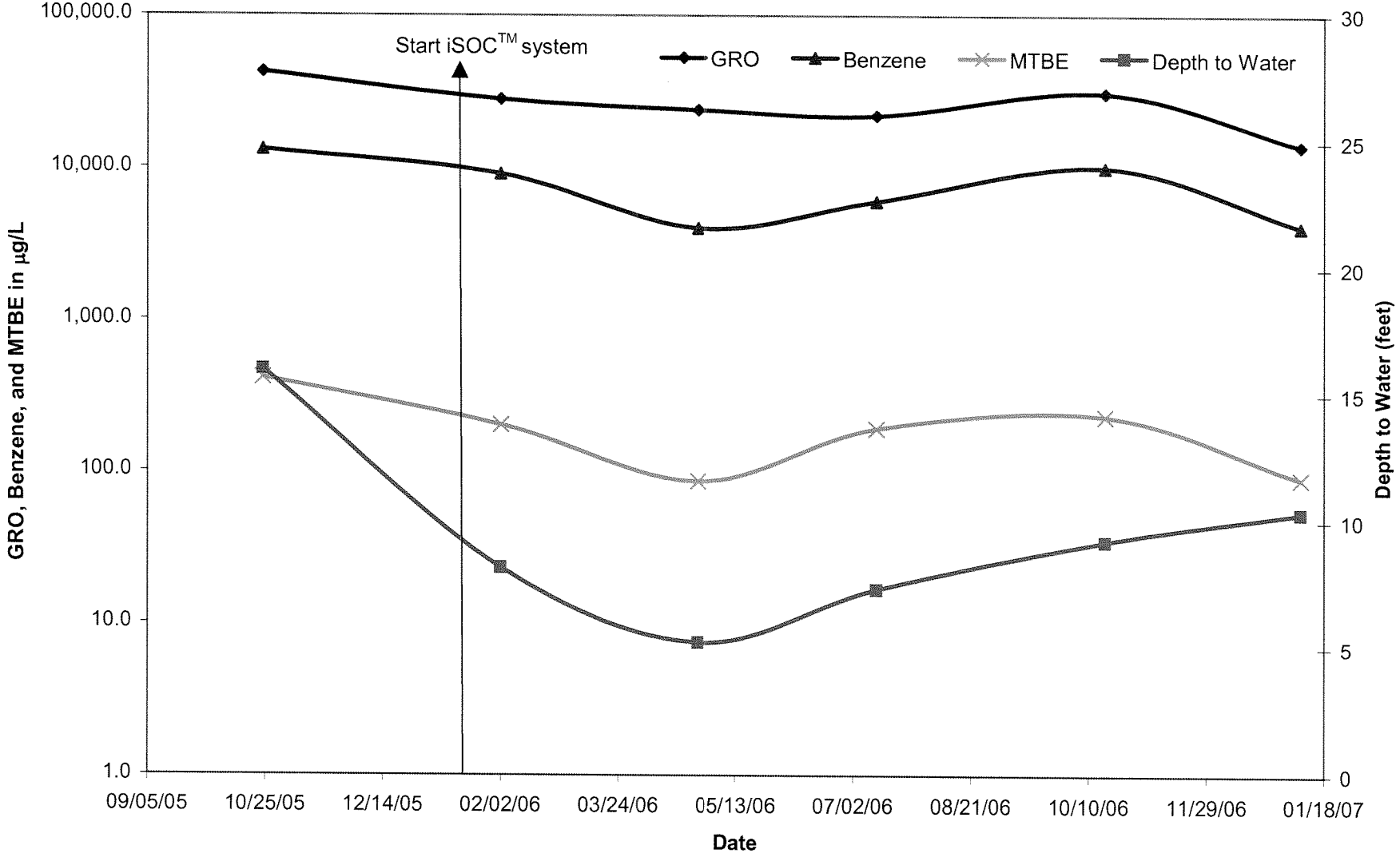


Figure 10
GRO, Benzene, MTBE, and Depth to Water Variation with Time at EX-2
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California



APPENDIX A

FIELD DATA SHEETS

STRATUS ENVIRONMENTAL, INC.

Global ID: T0600101808
Site Address: 10700 MCARTHUR
City: Oakland, CA
Sampled By: VinceZ

Site Number: USA 57
Project No: u57
Project PM: Steve
Date: 1-8-07

Signature: VZ Date: 1-8-07

Water Level Data					Purge Volume Calculations					Well Purge Method				Sample Record			Field Data
Well ID	Time	Depth to water feet	Top of Screen feet	Qtr. Meas. Depth of Well feet	Casing Water Column (A)	Well Diameter (Inches)	Multiplier Value (B)	Three Casing Volumes (Gallons)	Actual Water Purged (Gallons)	No Purge	Bailer	Pump	Other	DTW At Sample Time	Sample I.D.	Sample time	Dissolved Oxygen (mg/L)
MW-3	0458	21.68		40.60	18.92	4	2	38	38			X		33.15	MW-3	0745	10.04
MW-4	0345	8.82		38.30	29.98	4	2	60	60			X		21.93	MW-4	0645	4.74
~~MW-5~~ (covered)						4									MW-5		
MW-6	0407	17.40		18.30	.9	4	—	—	—	X				Dry	MW-6	—	—
MW-7	0354	15.03		41.50	26.47	4	2	53	53			X		16.68	MW-7	1111	1.88
MW-8	0407	16.70		37.30	20.6	4	2	41	33. dry			X		34.44	MW-8	1100	1.91
S-1	0444	15.87		34.30	19.43	3	1	19	9. dry			X		19.78	S-1	0616	1.80
S-2	0502	18.21		43.5	25.29	3	1	25	25			X		31.68	S-2	0657	2.19
EX-1	0448	5.47		24.0	18.53	4	2	37	15.5 dry		X			15.87	EX-1	0801	3.16
EX-2	0453	10.35		25.8	15.95	4	2	31	17		X			25.93	EX-2	1156	4.83
EX-3		12.31		24.6	12.29	4	2	24	12. dry			X		21.71	EX-3	0948	2.42
~~EX-4~~ (ignore)						4									[illegible]		
EX-4		12.92		24.5	11.58	4	2	23	22 dry		X			22.58	EX-4	1039	1.57

Multiplier Values
2" = 0.5 3" = 1.0 4"=2.0 6"=4.4

ORIGINAL

STRATUS ENVIRONMENTAL, INC.

Site Address 10700 MCARTHUR
City Oakland, CA
Sampled By: VinceZ

Site Number USA 57
Project No u57
Project PM Steve
Date ~~01/00/00~~

ORIGINAL

V3 1-8-07

Well ID	MW-3	0745		
purge start time	0717		No Odor	
	Temp C	pH	cond	gallons
time	16.0	7.19	2.62m	0
time	17.0	7.32	2.36m	19
time	17.1	7.04	2.66m	38
time				
purge stop time	0735		ORP 247	

Well ID	ORP.232	MW-4	0645	
purge start time	0538		NO ODOR	
	Temp C	pH	cond	gallons
time	19.3	7.70	876	0
time	19.2	7.87	755	30
time	18.2	7.06	769	60
time				
purge stop time	0638			

Well ID	MW-5			
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID	MW-6			
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID	ORP.144	MW-7	1111	
Purge start time	1009		NO ODOR	
	Temp C	pH	cond	gallons
time	19.9	7.73	7.70	0
time	20.7	8.66	7.34	27
time	21.1	7.95	707	53
time				
purge stop time	1051			

Well ID	MW-8	1100		
Purge start time	1037		No Odor	
	Temp C	pH	cond	gallons
time	17.2	7.08	7.52m	0
time	17.6	7.17	7.59m	20
time	Dry @		33	gal
time	17.8	7.13	7.61m	33
purge stop time				

Well ID	S-1			
purge start time	0553		Lite Odor	
	Temp C	pH	cond	gallons
time	16.7	7.39	1156	0
time		Dry @		(9)
time	16.9	7.07	1326	(9)
time				
purge stop time	ORP [redacted]		119	

Well ID	S-2	0657		
purge start time	0437		No Odor	
	Temp C	pH	cond	gallons
time	16.1	7.47	1095	0
time	16.8	7.39	1107	13
time	16.5	7.16	1181	25
time				
purge stop time	0651		ORP 142	

STRATUS ENVIRONMENTAL INC.

Site Address 10700 MCARTHUR
City Oakland, CA
Sampled By: VinceZ

Site Number USA 57
Project No u57
Project PM Steve
Date 01/00/00

'8-1-8-07

Well ID ORP-191		EX-1 0801		
purge start time Bailer		No ODOR		
	Temp C	pH	cond	gallons
time	16.2	7.56	708	0
time	16.2	7.59	721	8
time	16.8	7.50	831	15.5
time	Dry @		15.5 gal	
purge stop time				

Well ID ORP-70		EX-2 1156		
purge start time Bailer		No Odor		
	Temp C	pH	cond	gallons
time	17.6	7.26	1717	8
time	17.9	7.35	1841	16
time	22.1	7.61	933	17
time				
purge stop time ORP 233				

Well ID ORP-12		EX-4 1039		
purge start time Bailer		NO ODOR		
	Temp C	pH	cond	gallons
time	15.9	7.07	1298	0
time	20.6	8.00	7.91	11
time	19.9	7.29	744	23
time				
purge stop time				

Well ID		EX-3 0948		
purge start time 0850		ODOR		
	Temp C	pH	cond	gallons
time	17.1	7.15	1234	8
time	18.8	7.16	1312	12
time	Dry @		12.25	
time	17.2	7.09	1511	12.25
purge stop time ORP (-40)				

Well ID	0			
Purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID	0			
Purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID	0			
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID	0			
purge start time				
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Former USA Service Station No. 57
10700 McArthur Boulevard
Oakland, CA
Oxygen Injection System Using iSOC

ORIGINAL

Date: 1-16-07
Onsite Time: 0500
Offsite Time: 0600

Technician: CHILL
Project Engineer: Gowan
Weather Conditions: Cold
Ambient Temperature: 35

iSOC™ Panel:

No. of iSOC Panels: Three 3-Injection Well Panels
No. of Oxygen Cylinders On Site: 6
No. of Cylinders Connected to Panels: 3
No. of Empty Cylinders: 1

Field Measurments (Monthly)

Well ID	Time	DTW	pH	DO	cond	ORP		
S-1		15.87	7.3	1.8	1156	119		
S-2		18.21	7.4	2.1	1095	142		
MW-3		21.68	7.1	10.04	2.02	247		
EX-1		5.47	7.5	3.1	708	191		
EX-2		10.35	7.2	4.8	1917	270		
EX-3		12.31	7.1	2.4	1234	40		
MW-7		15.03	7.7	1.8	7.70	144		
MW-8		16.70	7.0	1.9	7.52	—		

Connected Cylinders

O_2 Cylinder	Pressure
1	2100
2	2000
3	2100
4	Full
5	Full
6	0

Lab Parameters	Sampling Frequency	Sample Locations	Analytical Method
Bio-chemcal oxygen demand	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 405.1
Total Iron & Ferrous Iron	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	SM3500
Heterotrophic Plate Counts	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	SM 9215B
Total Organic Carbon	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 415.1
Total Dissolved Solids	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 160.1
Nitrates, nitrites and ammonia	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 350.3
Sulfide and Sulfates	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 376.2 & EPA 300.0
Total Phosphorus & orthophosphates	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 365.2

Former USA Service Station No. 57
10700 McArthur Boulevard
Oakland, CA
Oxygen Injection System Using iSOC

ORIGINAL

Date: 2/27/07
Onsite Time: 1115
Offsite Time: 1145

Technician: CHILC
Project Engineer: Cosumi
Weather Conditions: Rain
Ambient Temperature: 48

iSOC™ Panel:

No. of iSOC Panels: Three 3-Injection Well Panels
No. of Oxygen Cylinders On Site: 6
No. of Cylinders Connected to Panels: 3
No. of Empty Cylinders: 3

Field Measurments (Monthly)

Well ID	Time	DTW	pH	DO				
S-1								
S-2								
MW-3								
EX-1								
EX-2								
EX-3								
MW-7								
MW-8								

Connected Cylinders

O_2 Cylinder	Pressure
1	2200
2	2000
3	2000
4	0
5	0
6	0

Lab Parameters	Sampling Frequency	Sample Locations	Analytical Method
Bio-chemcal oxygen demand	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 405.1
Total Iron & Ferrous Iron	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	SM3500
Heterotrophic Plate Counts	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	SM 9215B
Total Organic Carbon	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 415.1
Total Dissolved Solids	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 160.1
Nitrates, nitrites and ammonia	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 350.3
Sulfide and Sulfates	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 376.2 & EPA 300.0
Total Phosphorus & orthophosphates	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 365.2

Former USA Service Station No. 57
10700 McArthur Boulevard
Oakland, CA
Oxygen Injection System Using iSOC

ORIGINAL

Date: 3-14-07
Onsite Time: 0545
Offsite Time: 0700

Technician: CHUC
Project Engineer: Cowan
Weather Conditions: Clear
Ambient Temperature: 45

iSOC™ Panel:

No. of iSOC Panels:	Three 3-Injection Well Panels
No. of Oxygen Cylinders On Site:	6
No. of Cylinders Connected to Panels:	2
No. of Empty Cylinders:	4

Field Measurments (Monthly)

Well ID	Temp Time	DTW	pH	DO	cond ORP		
S-1	18.9	14.68	7.23	2.0	985	74	
S-2	19.6	17.95	7.6	2368	996	225	
MW-3	19.3	10.97	8.0	4.6	521	133	
EX-1	17.7	3.07	7.6	14.84	692	231	
EX-2	18.6	8.83	7.5	8.8	1229	143	
EX-3	–	NM	–	–	–	–	
MW-7	19.4	14.99	7.63	2.9	1021	193	
MW-8	19.2	15.02	7.[illegible]	5.7	7.29	206	

Connected Cylinders	
O_2 Cylinder	Pressure
1	0
2	1700
3	2200
4	0
5	0
6	0

Lab Parameters	Sampling Frequency	Sample Locations	Analytical Method
Bio-chemcal oxygen demand	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 405.1
Total Iron & Ferrous Iron	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	SM3500
Heterotrophic Plate Counts	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	SM 9215B
Total Organic Carbon	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 415.1
Total Dissolved Solids	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 160.1
Nitrates, nitrites and ammonia	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 350.3
Sulfide and Sulfates	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 376.2 & EPA 300.0
Total Phosphorus & orthophosphates	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 365.2

Former USA Service Station No. 57
10700 McArthur Boulevard
Oakland, CA
Oxygen Injection System Using iSOC

ORIGINAL

Date: 3.29.07
Onsite Time: 0930
Offsite Time: 1000

Technician: CHILL
Project Engineer: CHUCK
Weather Conditions: CLEAR
Ambient Temperature: 50

iSOC™ Panel:

No. of iSOC Panels:	Three 3-Injection Well Panels
No. of Oxygen Cylinders On Site:	6
No. of Cylinders Connected to Panels:	3
No. of Empty Cylinders:	0

MGL

Field Measurments (Monthly)

Well ID	Time	DTW	pH	DO	Cond	Temp	ORP
S-1		15.49	7.2	3.1	971	19.5	80
S-2		18.15	7.7	25.47	658	19.2	212
MW-3		11.85	7.9	4.7	612	18.7	120
EX-1		4.47	7.69	11.89	700	18.0	216
EX-2		9.41	7.5	7.5	1322	18.5	103
EX-3		NM					
MW-7		15.13	7.8	6.9	935	19.2	179
MW-8		15.97	7.0	7.3	706	19.5	185

Connected Cylinders

O_2 Cylinder	Pressure
1	2260
2	1600
3	2300
4	
5	
6	

Lab Parameters	Sampling Frequency	Sample Locations	Analytical Method
Bio-chemcal oxygen demand	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 405.1
Total Iron & Ferrous Iron	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	SM3500
Heterotrophic Plate Counts	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	SM 9215B
Total Organic Carbon	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 415.1
Total Dissolved Solids	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 160.1
Nitrates, nitrites and ammonia	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 350.3
Sulfide and Sulfates	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 376.2 & EPA 300.0
Total Phosphorus & orthophosphates	Quarterly	EX-1, EX-2, EX-3, MW-7, & MW-8	EPA 365.2

APPENDIX B

SAMPLING AND ANALYSIS PROCEDURES

SAMPLING AND ANALYSIS PROCEDURES

The sampling and analysis procedures as well as the quality assurance plan are contained in this appendix. The procedures and adherence to the quality assurance plan will provide for consistent and reproducible sampling methods; proper application of analytical methods; accurate and precise analytical results; and finally, these procedures will provide guidelines so that the overall objectives of the monitoring program are achieved.

Ground Water and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the ground water depth in monitoring wells that do not contain LPH. Depth to ground water or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typical a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

Subjective Analysis of Ground Water

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

Monitoring Well Purging and Sampling

Monitoring wells are purged using a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water have been removed. If three well volumes can not be removed in one half hour's time, the well is allowed to recharge to 80% of original level. After recharging, a ground water sample is then removed from each of the wells using a disposable bailer.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These bottles will be filled completely to prevent air from remaining in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped.

The water sample is collected, labeled, and handled according to the Quality Assurance Plan. Water generated during the monitoring event is disposed of accruing to regulatory accepted method pertaining to the site.

QUALITY ASSURANCE PLAN

Procedures to provide data quality should be established and documented so that conditions adverse to quality, such as deficiencies, deviations, nonconforments, defective material, services, and/or equipment, can be promptly identified and corrected.

General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of samples used on this project can be found in this section.

Soil and Water Sample Labeling and Preservation

Label information includes a unique sample identification number, job identification number, date, and time. After labeling all soil and water samples are placed in a Ziploc® type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with Teflon® sheeting and plastic caps. The sample is then placed in a Ziploc® type bag and sealed. The sample is labeled and refrigerated at approximately 4° Celsius for delivery, under strict chain-of-custody, to the analytical laboratory.

Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded on the borehole log or in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and

noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

Equipment Cleaning

Sample bottles, caps, and septa used in sampling for volatile and semivolatile organics will be triple rinsed with high-purity deionized water. After being rinsed, sample bottles will be dried overnight at a temperature of 200°C. Sample caps and septa will be dried overnight at a temperature of 60°C. Sample bottles, caps, and septa will be protected from solvent contact between drying and actual use at the sampling site. Sampling containers will be used only once and discarded after analysis is complete.

Plastic bottles and caps used in sampling for metals will be soaked overnight in a 1-percent nitric acid solution. Next, the bottles and caps will be triple rinsed with deionized water. Finally, the bottles and caps will be air dried before being used at the site. Plastic bottles and caps will be constructed of linear polyethylene or polypropylene. Sampling containers will be used only once and discarded after analysis is complete. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Before the sampling event is started, equipment that will be placed in the well or will come in contact with groundwater will be disassembled and cleaned thoroughly with detergent water, and then steam cleaned with deionized water. Any parts that may absorb contaminants, such as plastic pump valves, etc. will be cleaned as described above or replaced.

During field sampling, equipment surfaces that are placed in the well or contact groundwater will be steam cleaned with deionized water before the next well is purged or sampled. Equipment blanks will be collected and analyzed from non-disposable sampling equipment that is used for collecting groundwater samples at the rate of one blank per twenty samples collected.

Internal Quality Assurance Checks

Internal quality assurance procedures are designed to provide reliability of monitoring and measurement of data. Both field and laboratory quality assurance checks are necessary to evaluate the reliability of sampling and analysis results. Internal quality assurance procedures generally include:

- Laboratory Quality Assurance

- Documentation of instrument performance checks
- Documentation of instrument calibration
- Documentation of the traceability of instrument standards, samples, and data
- Documentation of analytical and QC methodology (QC methodology includes use of spiked samples, duplicate samples, split samples, use of reference blanks, and check standards to check method accuracy and precision)

- Field Quality Assurance

- Documentation of sample preservation and transportation
- Documentation of field instrument calibration and irregularities in performance

Internal laboratory quality assurance checks will be the responsibility of the contract laboratories. Data and reports submitted by field personnel and the contract laboratory will be reviewed and maintained in the project files.

Types of Quality Control Checks

Samples are analyzed using analytical methods outlined in EPA Manual SW 846 and approved by the California Regional Water Quality Control Board-Central Valley Region in the Leaking Underground Fuel Tanks (LUFT) manual and appendices. Standard contract laboratory quality control may include analysis or use of the following:

- Method blanks – reagent water used to prepare calibration standards, spike solutions, etc. is analyzed in the same manner as the sample to demonstrate that analytical interferences are under control.
- Matrix spiked samples – a known amount of spike solution containing selected constituents is added to the sample at concentrations at which the accuracy of the analytical method is to satisfactorily monitor and evaluate laboratory data quality.
- Split samples – a sample is split into two separate aliquots before analysis to assess the reproducibility of the analysis.
- Surrogate samples – samples are spiked with surrogate constituents at known concentrations to monitor both the performance of the analytical system and the effectiveness of the method in dealing with the sample matrix.
- Control charts – graphical presentation of spike or split sample results used to track the accuracy or precision of the analysis.
- Quality control check samples – when spiked sample analysis indicates atypical instrument performance, a quality check sample, which is prepared independently of the calibration standards and contains the constituents of interest, is analyzed to confirm that measurements were performed accurately.

- Calibration standards and devices – traceable standards or devices to set instrument response so that sample analysis results represent the absolute concentration of the constituent.

Field QA samples will be collected to assess sample handling procedures and conditions. Standard field quality control may include the use of the following, and will be collected and analyzed as outlined in EPA Manual SW 846.

- Field blanks – reagent water samples are prepared at the sampling location by the same procedure used to collect field groundwater samples and analyzed with the groundwater samples to assess the impact of sampling techniques on data quality. Typically, one field blank per twenty groundwater samples collected will be analyzed per sampling event.
- Field replicates – duplicate or triplicate samples are collected and analyzed to assess the reproducibility of the analytical data. One replicate groundwater sample per twenty samples collected will be analyzed per sampling event, unless otherwise specified. Triplicate samples will be collected only when specific conditions warrant and generally are sent to an alternate laboratory to confirm the accuracy of the routinely used laboratory.
- Trip blanks – reagent water samples are prepared before field work, transported and stored with the samples and analyzed to assess the impact of sample transport and storage for data quality. In the event that any analyte is detected in the field blank, a trip blank will be included in the subsequent groundwater sampling event.

Data reliability will be evaluated by the certified laboratory and reported on a cover sheet attached to the laboratory data report. Analytical data resulting from the testing of field or trip blanks will be included in the laboratory's report. Results from matrix spike, surrogate, and method blank testing will be reported, along with a statement of whether the samples were analyzed within the appropriate holding time.

Stratus will evaluate the laboratory's report on data reliability and note significant QC results that may make the data biased or unacceptable. Data viability will be performed as outlined in EPA Manual SW 846. If biased or unacceptable data is noted, corrective actions (including re-sample/re-analyze, etc.) will be evaluated on a site-specific basis.

APPENDIX C

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

FILE COPY

ANALYTICAL REPORT

FEB - 6 2007

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 01/09/07

Job#: 2007-0057-01/ USA 57

Iron by Spectrophotometer
SM3500-Fe D

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-7**					
Lab ID :	STR07010801-05A	Iron, Total	1,000	300 µg/L	01/08/07	01/15/07
Client ID :	**MW-8**					
Lab ID :	STR07010801-06A	Iron, Total	7,300	300 µg/L	01/08/07	01/15/07
Client ID :	**EX-1**					
Lab ID :	STR07010801-07A	Iron, Total	5,500	300 µg/L	01/08/07	01/15/07
Client ID :	**EX-2**					
Lab ID :	STR07010801-08A	Iron, Total	20,000	600 µg/L	01/08/07	01/15/07
Client ID :	**EX-3**					
Lab ID :	STR07010801-09A	Iron, Total	54,000	1,200 µg/L	01/08/07	01/15/07

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/16/07
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 01/09/07

Job#: 2007-0057-01/ USA 57

Iron by Spectrophotometer
SM3500-Fe D

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-7**					
Lab ID :	STR07010801-05A	Iron, Ferrous (+2)	ND	50 µg/L	01/08/07	01/09/07
Client ID :	**MW-8**					
Lab ID :	STR07010801-06A	Iron, Ferrous (+2)	ND	50 µg/L	01/08/07	01/09/07
Client ID :	**EX-1**					
Lab ID :	STR07010801-07A	Iron, Ferrous (+2)	ND	50 µg/L	01/08/07	01/09/07
Client ID :	**EX-2**					
Lab ID :	STR07010801-08A	Iron, Ferrous (+2)	ND	50 µg/L	01/08/07	01/09/07
Client ID :	**EX-3**					
Lab ID :	STR07010801-09A	Iron, Ferrous (+2)	130	50 µg/L	01/08/07	01/09/07

ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/16/07
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 01/09/07

Job#: 2007-0057-01/ USA 57

Ammonia as Nitrogen
EPA Method 350.3 / SM4500-NH3F

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-7**					
Lab ID :	STR07010801-05A	Nitrogen, Ammonia (As N)	ND	100 µg/L	01/08/07	01/12/07
Client ID :	**MW-8**					
Lab ID :	STR07010801-06A	Nitrogen, Ammonia (As N)	ND	100 µg/L	01/08/07	01/12/07
Client ID :	**EX-1**					
Lab ID :	STR07010801-07A	Nitrogen, Ammonia (As N)	ND	100 µg/L	01/08/07	01/12/07
Client ID :	**EX-2**					
Lab ID :	STR07010801-08A	Nitrogen, Ammonia (As N)	ND	100 µg/L	01/08/07	01/12/07
Client ID :	**EX-3**					
Lab ID :	STR07010801-09A	Nitrogen, Ammonia (As N)	ND	100 µg/L	01/08/07	01/12/07

ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/16/07
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 01/09/07

Job#: 2007-0057-01/ USA 57

Anions by IC
EPA Method 300.0 / 9056

	Parameter	Concentration	Reporting Limit	Date / Time Sampled	Date / Time Analyzed
Client ID : **MW-7**	Nitrite (NO2) - N	ND	250 µg/L	01/08/07 11:11	01/09/07 12:58
Lab ID : STR07010801-05A	Nitrate (NO3) - N	2,400	250 µg/L	01/08/07 11:11	01/09/07 12:58
	Sulfate (SO4)	59,000	500 µg/L	01/08/07 11:11	01/09/07 12:58
Client ID : **MW-8**	Nitrite (NO2) - N	8,500	630 µg/L	01/08/07 11:00	01/09/07 16:02
Lab ID : STR07010801-06A	Nitrate (NO3) - N	4,300	250 µg/L	01/08/07 11:00	01/09/07 13:16
	Sulfate (SO4)	84,000	1,300 µg/L	01/08/07 11:00	01/09/07 16:02
Client ID : **EX-1**	Nitrite (NO2) - N	ND	250 µg/L	01/08/07 08:01	01/09/07 13:35
Lab ID : STR07010801-07A	Nitrate (NO3) - N	850	250 µg/L	01/08/07 08:01	01/09/07 13:35
	Sulfate (SO4)	60,000	500 µg/L	01/08/07 08:01	01/09/07 13:35
Client ID : **EX-2**	Nitrite (NO2) - N	420	250 µg/L	01/08/07 11:56	01/09/07 13:53
Lab ID : STR07010801-08A	Nitrate (NO3) - N	ND	250 µg/L	01/08/07 11:56	01/09/07 13:53
	Sulfate (SO4)	5,000	500 µg/L	01/08/07 11:56	01/09/07 13:53
Client ID : **EX-3**	Nitrite (NO2) - N	ND	250 µg/L	01/08/07 09:48	01/09/07 14:12
Lab ID : STR07010801-09A	Nitrate (NO3) - N	ND	250 µg/L	01/08/07 09:48	01/09/07 14:12
	Sulfate (SO4)	31,000	500 µg/L	01/08/07 09:48	01/09/07 14:12

ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/16/07
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 01/09/07

Job#: 2007-0057-01/ USA 57

Orthophosphate in Water
EPA Method 365.2 / SM4500PE

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-7**					
Lab ID :	STR07010801-05A	Total Orthophosphate	110	100 µg/L	01/08/07	01/09/07
Client ID :	**MW-8**					
Lab ID :	STR07010801-06A	Total Orthophosphate	230	100 µg/L	01/08/07	01/09/07
Client ID :	**EX-1**					
Lab ID :	STR07010801-07A	Total Orthophosphate	170	100 µg/L	01/08/07	01/09/07
Client ID :	**EX-2**					
Lab ID :	STR07010801-08A	Total Orthophosphate	140	100 µg/L	01/08/07	01/09/07
Client ID :	**EX-3**					
Lab ID :	STR07010801-09A	Total Orthophosphate	160	100 µg/L	01/08/07	01/09/07

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/16/07
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 01/09/07

Job#: 2007-0057-01/ USA 57

Phosphorus
EPA Method 365.2 / SM4500PE

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-7**					
Lab ID :	STR07010801-05A	Phosphorus, Total (As P)	120	100 µg/L	01/08/07	01/15/07
Client ID :	**MW-8**					
Lab ID :	STR07010801-06A	Phosphorus, Total (As P)	160	100 µg/L	01/08/07	01/15/07
Client ID :	**EX-1**					
Lab ID :	STR07010801-07A	Phosphorus, Total (As P)	120	100 µg/L	01/08/07	01/15/07
Client ID :	**EX-2**					
Lab ID :	STR07010801-08A	Phosphorus, Total (As P)	250	100 µg/L	01/08/07	01/15/07
Client ID :	**EX-3**					
Lab ID :	STR07010801-09A	Phosphorus, Total (As P)	370	100 µg/L	01/08/07	01/15/07

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/16/07
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 01/09/07

Job#: 2007-0057-01/ USA 57

Sulfide
EPA Method 376.2 / SM4500-S D

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-7**					
Lab ID :	STR07010801-05A	Sulfide	ND	100 µg/L	01/08/07	01/15/07
Client ID :	**MW-8**					
Lab ID :	STR07010801-06A	Sulfide	ND	100 µg/L	01/08/07	01/15/07
Client ID :	**EX-1**					
Lab ID :	STR07010801-07A	Sulfide	ND	100 µg/L	01/08/07	01/15/07
Client ID :	**EX-2**					
Lab ID :	STR07010801-08A	Sulfide	ND	100 µg/L	01/08/07	01/15/07
Client ID :	**EX-3**					
Lab ID :	STR07010801-09A	Sulfide	ND	100 µg/L	01/08/07	01/15/07

ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/16/07
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 01/09/07

Job#: 2007-0057-01/ USA 57

Total Dissolved Solids (TDS)
EPA Method 160.1 / SM 2540 C

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-7**					
Lab ID :	STR07010801-05A	Solids, Total Dissolved (TDS)	630,000	10,000 µg/L	01/08/07	01/15/07
Client ID :	**MW-8**					
Lab ID :	STR07010801-06A	Solids, Total Dissolved (TDS)	5,600,000	25,000 µg/L	01/08/07	01/15/07
Client ID :	**EX-1**					
Lab ID :	STR07010801-07A	Solids, Total Dissolved (TDS)	390,000	10,000 µg/L	01/08/07	01/15/07
Client ID :	**EX-2**					
Lab ID :	STR07010801-08A	Solids, Total Dissolved (TDS)	960,000	10,000 µg/L	01/08/07	01/16/07
Client ID :	**EX-3**					
Lab ID :	STR07010801-09A	Solids, Total Dissolved (TDS)	840,000	10,000 µg/L	01/08/07	01/15/07

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 · Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/16/07
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 01/09/07

Job#: 2007-0057-01/ USA 57

Total Organic Carbon as NonPurgeable Organic Carbon
EPA Method SW9060/415.1/SM-5310C

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-7**					
Lab ID :	STR07010801-05A	Total Organic Carbon	2,400	1,000 µg/L	01/08/07	01/12/07
Client ID :	**MW-8**					
Lab ID :	STR07010801-06A	Total Organic Carbon	2,200	1,000 µg/L	01/08/07	01/12/07
Client ID :	**EX-1**					
Lab ID :	STR07010801-07A	Total Organic Carbon	6,300	1,000 µg/L	01/08/07	01/12/07
Client ID :	**EX-2**					
Lab ID :	STR07010801-08A	Total Organic Carbon	14,000	4,000 µg/L	01/08/07	01/12/07
Client ID :	**EX-3**					
Lab ID :	STR07010801-09A	Total Organic Carbon	11,000	1,000 µg/L	01/08/07	01/13/07

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 • Las Vegas, NV • (702) 281-4848 • info@alpha-analytical.com

1/16/07
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received 01/09/07

Job#: 2007-0057-01/ USA 57

GC/MSD by Direct Injection
EPA Method SW8260B-DI

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**S-1**					
Lab ID :	STR07010801-01A	Methanol	ND	5,000 µg/L	01/08/07	01/09/07
		Ethanol	ND	5,000 µg/L	01/08/07	01/09/07
Client ID :	**S-2**					
Lab ID :	STR07010801-02A	Methanol	ND	5,000 µg/L	01/08/07	01/09/07
		Ethanol	ND	5,000 µg/L	01/08/07	01/09/07
Client ID :	**MW-3**					
Lab ID :	STR07010801-03A	Methanol	ND	5,000 µg/L	01/08/07	01/09/07
		Ethanol	ND	5,000 µg/L	01/08/07	01/09/07
Client ID :	**MW-4**					
Lab ID :	STR07010801-04A	Methanol	ND	5,000 µg/L	01/08/07	01/09/07
		Ethanol	ND	5,000 µg/L	01/08/07	01/09/07
Client ID :	**MW-7**					
Lab ID :	STR07010801-05A	Methanol	ND	5,000 µg/L	01/08/07	01/09/07
		Ethanol	ND	5,000 µg/L	01/08/07	01/09/07
Client ID :	**MW-8**					
Lab ID :	STR07010801-06A	Methanol	ND	5,000 µg/L	01/08/07	01/09/07
		Ethanol	ND	5,000 µg/L	01/08/07	01/09/07
Client ID :	**EX-1**					
Lab ID :	STR07010801-07A	Methanol	ND	5,000 µg/L	01/08/07	01/09/07
		Ethanol	ND	5,000 µg/L	01/08/07	01/09/07
Client ID :	**EX-2**					
Lab ID :	STR07010801-08A	Methanol	ND	5,000 µg/L	01/08/07	01/09/07
		Ethanol	ND	5,000 µg/L	01/08/07	01/09/07
Client ID :	**EX-3**					
Lab ID :	STR07010801-09A	Methanol	ND	5,000 µg/L	01/08/07	01/09/07
		Ethanol	ND	5,000 µg/L	01/08/07	01/09/07
Client ID :	**EX-4**					
Lab ID :	STR07010801-10A	Methanol	ND	5,000 µg/L	01/08/07	01/09/07
		Ethanol	ND	5,000 µg/L	01/08/07	01/09/07

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/16/07
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received 01/09/07

Job#: 2007-0057-01/ USA 57

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	TPH-P (GRO)	260	50 µg/L	01/08/07	01/10/07
S-1	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/08/07	01/10/07
Lab ID :	Methyl tert-butyl ether (MTBE)	15	0.50 µg/L	01/08/07	01/10/07
STR07010801-01A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/08/07	01/10/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/08/07	01/10/07
	1,2-Dichloroethane	ND	1.0 µg/L	01/08/07	01/10/07
	Benzene	4.6	0.50 µg/L	01/08/07	01/10/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/08/07	01/10/07
	Toluene	ND	0.50 µg/L	01/08/07	01/10/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	01/08/07	01/10/07
	Ethylbenzene	ND	0.50 µg/L	01/08/07	01/10/07
	m,p-Xylene	ND	0.50 µg/L	01/08/07	01/10/07
	o-Xylene	ND	0.50 µg/L	01/08/07	01/10/07
Client ID :	TPH-P (GRO)	69	50 µg/L	01/08/07	01/10/07
S-2	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/08/07	01/10/07
Lab ID :	Methyl tert-butyl ether (MTBE)	64	0.50 µg/L	01/08/07	01/10/07
STR07010801-02A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/08/07	01/10/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/08/07	01/10/07
	1,2-Dichloroethane	2.6	1.0 µg/L	01/08/07	01/10/07
	Benzene	ND	0.50 µg/L	01/08/07	01/10/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/08/07	01/10/07
	Toluene	ND	0.50 µg/L	01/08/07	01/10/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	01/08/07	01/10/07
	Ethylbenzene	ND	0.50 µg/L	01/08/07	01/10/07
	m,p-Xylene	ND	0.50 µg/L	01/08/07	01/10/07
	o-Xylene	ND	0.50 µg/L	01/08/07	01/10/07
Client ID :	TPH-P (GRO)	200	50 µg/L	01/08/07	01/10/07
MW-3	Tertiary Butyl Alcohol (TBA)	30	10 µg/L	01/08/07	01/10/07
Lab ID :	Methyl tert-butyl ether (MTBE)	85	0.50 µg/L	01/08/07	01/10/07
STR07010801-03A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/08/07	01/10/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/08/07	01/10/07
	1,2-Dichloroethane	22	1.0 µg/L	01/08/07	01/10/07
	Benzene	14	0.50 µg/L	01/08/07	01/10/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/08/07	01/10/07
	Toluene	ND	0.50 µg/L	01/08/07	01/10/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	01/08/07	01/10/07
	Ethylbenzene	0.89	0.50 µg/L	01/08/07	01/10/07
	m,p-Xylene	0.95	0.50 µg/L	01/08/07	01/10/07
	o-Xylene	ND	0.50 µg/L	01/08/07	01/10/07

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	TPH-P (GRO)	ND	50 µg/L	01/08/07	01/10/07
MW-4	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/08/07	01/10/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/08/07	01/10/07
STR07010801-04A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/08/07	01/10/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/08/07	01/10/07
	1,2-Dichloroethane	ND	1.0 µg/L	01/08/07	01/10/07
	Benzene	ND	0.50 µg/L	01/08/07	01/10/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/08/07	01/10/07
	Toluene	ND	0.50 µg/L	01/08/07	01/10/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	01/08/07	01/10/07
	Ethylbenzene	ND	0.50 µg/L	01/08/07	01/10/07
	m,p-Xylene	ND	0.50 µg/L	01/08/07	01/10/07
	o-Xylene	ND	0.50 µg/L	01/08/07	01/10/07
Client ID :	TPH-P (GRO)	ND	50 µg/L	01/08/07	01/10/07
MW-7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/08/07	01/10/07
Lab ID :	Methyl tert-butyl ether (MTBE)	0.99	0.50 µg/L	01/08/07	01/10/07
STR07010801-05A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/08/07	01/10/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/08/07	01/10/07
	1,2-Dichloroethane	ND	1.0 µg/L	01/08/07	01/10/07
	Benzene	ND	0.50 µg/L	01/08/07	01/10/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/08/07	01/10/07
	Toluene	ND	0.50 µg/L	01/08/07	01/10/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	01/08/07	01/10/07
	Ethylbenzene	ND	0.50 µg/L	01/08/07	01/10/07
	m,p-Xylene	ND	0.50 µg/L	01/08/07	01/10/07
	o-Xylene	ND	0.50 µg/L	01/08/07	01/10/07
Client ID :	TPH-P (GRO)	ND	50 µg/L	01/08/07	01/10/07
MW-8	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/08/07	01/10/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	01/08/07	01/10/07
STR07010801-06A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/08/07	01/10/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/08/07	01/10/07
	1,2-Dichloroethane	ND	1.0 µg/L	01/08/07	01/10/07
	Benzene	ND	0.50 µg/L	01/08/07	01/10/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/08/07	01/10/07
	Toluene	ND	0.50 µg/L	01/08/07	01/10/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	01/08/07	01/10/07
	Ethylbenzene	ND	0.50 µg/L	01/08/07	01/10/07
	m,p-Xylene	ND	0.50 µg/L	01/08/07	01/10/07
	o-Xylene	ND	0.50 µg/L	01/08/07	01/10/07
Client ID :	TPH-P (GRO)	910	50 µg/L	01/08/07	01/10/07
EX-1	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	01/08/07	01/10/07
Lab ID :	Methyl tert-butyl ether (MTBE)	1.6	0.50 µg/L	01/08/07	01/10/07
STR07010801-07A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	01/08/07	01/10/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	01/08/07	01/10/07
	1,2-Dichloroethane	ND	1.0 µg/L	01/08/07	01/10/07
	Benzene	9.1	0.50 µg/L	01/08/07	01/10/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	01/08/07	01/10/07
	Toluene	ND	0.50 µg/L	01/08/07	01/10/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	01/08/07	01/10/07
	Ethylbenzene	2.7	0.50 µg/L	01/08/07	01/10/07
	m,p-Xylene	4.3	0.50 µg/L	01/08/07	01/10/07
	o-Xylene	1.6	0.50 µg/L	01/08/07	01/10/07

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	TPH-P (GRO)	14,000		4,000 µg/L	01/08/07	01/10/07
EX-2	Tertiary Butyl Alcohol (TBA)	ND	V	400 µg/L	01/08/07	01/10/07
Lab ID :	Methyl tert-butyl ether (MTBE)	90		20 µg/L	01/08/07	01/10/07
STR07010801-08A	Di-isopropyl Ether (DIPE)	ND	V	40 µg/L	01/08/07	01/10/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	40 µg/L	01/08/07	01/10/07
	1,2-Dichloroethane	ND	V	40 µg/L	01/08/07	01/10/07
	Benzene	4,100		20 µg/L	01/08/07	01/10/07
	Tertiary Amyl Methyl Ether (TAME)	ND	V	40 µg/L	01/08/07	01/10/07
	Toluene	440		20 µg/L	01/08/07	01/10/07
	1,2-Dibromoethane (EDB)	ND	V	160 µg/L	01/08/07	01/10/07
	Ethylbenzene	440		20 µg/L	01/08/07	01/10/07
	m,p-Xylene	830		20 µg/L	01/08/07	01/10/07
	o-Xylene	310		20 µg/L	01/08/07	01/10/07
Client ID :	TPH-P (GRO)	970		50 µg/L	01/08/07	01/10/07
EX-3	Tertiary Butyl Alcohol (TBA)	12		10 µg/L	01/08/07	01/10/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	01/08/07	01/10/07
STR07010801-09A	Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	01/08/07	01/10/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	01/08/07	01/10/07
	1,2-Dichloroethane	1.1		1.0 µg/L	01/08/07	01/10/07
	Benzene	8.3		0.50 µg/L	01/08/07	01/10/07
	Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	01/08/07	01/10/07
	Toluene	0.81		0.50 µg/L	01/08/07	01/10/07
	1,2-Dibromoethane (EDB)	ND		2.0 µg/L	01/08/07	01/10/07
	Ethylbenzene	19		0.50 µg/L	01/08/07	01/10/07
	m,p-Xylene	16		0.50 µg/L	01/08/07	01/10/07
	o-Xylene	3.8		0.50 µg/L	01/08/07	01/10/07
Client ID :	TPH-P (GRO)	3,500		1,000 µg/L	01/08/07	01/10/07
EX-4	Tertiary Butyl Alcohol (TBA)	ND	V	100 µg/L	01/08/07	01/10/07
Lab ID :	Methyl tert-butyl ether (MTBE)	25		5.0 µg/L	01/08/07	01/10/07
STR07010801-10A	Di-isopropyl Ether (DIPE)	ND	V	10 µg/L	01/08/07	01/10/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	10 µg/L	01/08/07	01/10/07
	1,2-Dichloroethane	ND	V	10 µg/L	01/08/07	01/10/07
	Benzene	840		5.0 µg/L	01/08/07	01/10/07
	Tertiary Amyl Methyl Ether (TAME)	ND	V	10 µg/L	01/08/07	01/10/07
	Toluene	51		5.0 µg/L	01/08/07	01/10/07
	1,2-Dibromoethane (EDB)	ND	V	40 µg/L	01/08/07	01/10/07
	Ethylbenzene	22		5.0 µg/L	01/08/07	01/10/07
	m,p-Xylene	97		5.0 µg/L	01/08/07	01/10/07
	o-Xylene	65		5.0 µg/L	01/08/07	01/10/07

Gasoline Range Organics (GRO) C4-C13

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/16/07

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: STR07010801 **Project:** 2007-0057-01/ USA 57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
07010801-01A	S-1	Aqueous	2
07010801-02A	S-2	Aqueous	2
07010801-03A	MW-3	Aqueous	2
07010801-04A	MW-4	Aqueous	2
07010801-05A	MW-7	Aqueous	2
07010801-06A	MW-8	Aqueous	2
07010801-07A	EX-1	Aqueous	2
07010801-08A	EX-2	Aqueous	2
07010801-09A	EX-3	Aqueous	2
07010801-10A	EX-4	Aqueous	2

1/16/07

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 29-Jan-07

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **D:\HPCHEM\MS09\DATA\070110\07011004.D** Batch ID: **MS09W0110A** Analysis Date: **01/10/2007 10:19**

Sample ID: **MBLK MS09W0110A** Units : **µg/L** Run ID: **MSD_09_070110A** Prep Date: **01/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Di-isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
1,2-Dichloroethane	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
1,2-Dibromoethane (EDB)	ND	2								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	11.1		10		111	76	127			
Surr: Toluene-d8	9.85		10		99	84	113			
Surr: 4-Bromofluorobenzene	10.1		10		101	79	119			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **D:\HPCHEM\MS09\DATA\070110\07011002.D** Batch ID: **MS09W0110A** Analysis Date: **01/10/2007 09:34**

Sample ID: **LCS MS09W0110A** Units : **µg/L** Run ID: **MSD_09_070110A** Prep Date: **01/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	8.98	0.5	10		90	81	122			
Toluene	9.18	0.5	10		92	80	120			
Ethylbenzene	8.85	0.5	10		89	80	120			
m,p-Xylene	9.78	0.5	10		98	80	129			
o-Xylene	9.22	0.5	10		92	80	129			
Surr: 1,2-Dichloroethane-d4	11.7		10		117	76	127			
Surr: Toluene-d8	9.97		10		99.7	84	113			
Surr: 4-Bromofluorobenzene	10.2		10		102	79	119			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **D:\HPCHEM\MS09\DATA\070110\07011005.D** Batch ID: **MS09W0110A** Analysis Date: **01/10/2007 10:57**

Sample ID: **07010801-01AMS** Units : **µg/L** Run ID: **MSD_09_070110A** Prep Date: **01/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	58	1.3	50	4.55	107	74	125			
Toluene	54.4	1.3	50	0	109	76	120			
Ethylbenzene	52.9	1.3	50	0	106	77	124			
m,p-Xylene	58.3	1.3	50	0	117	73	130			
o-Xylene	55.4	1.3	50	0	111	74	131			
Surr: 1,2-Dichloroethane-d4	56.2		50		112	76	127			
Surr: Toluene-d8	50.3		50		101	84	113			
Surr: 4-Bromofluorobenzene	51.7		50		103	79	119			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **D:\HPCHEM\MS09\DATA\070110\07011006.D** Batch ID: **MS09W0110A** Analysis Date: **01/10/2007 11:20**

Sample ID: **07010801-01AMSD** Units : **µg/L** Run ID: **MSD_09_070110A** Prep Date: **01/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	55.1	1.3	50	4.55	101	74	125	58.03	5.2(13)	
Toluene	51.1	1.3	50	0	102	76	120	54.36	6.2(13)	
Ethylbenzene	49.7	1.3	50	0	99	77	124	52.86	6.2(13)	
m,p-Xylene	55.1	1.3	50	0	110	73	130	58.31	5.6(14)	
o-Xylene	52.6	1.3	50	0	105	74	131	55.38	5.2(13)	
Surr: 1,2-Dichloroethane-d4	59.2		50		118	76	127			
Surr: Toluene-d8	49.4		50		99	84	113			
Surr: 4-Bromofluorobenzene	50.3		50		101	79	119			

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *29-Jan-07*

QC Summary Report

Work Order: 07010801

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *29-Jan-07*

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B**

File ID: **D:\HPCHEM\MS09\DATA\070110\07011004.D** Batch ID: **MS09W0110B** Analysis Date: **01/10/2007 10:19**

Sample ID: **MBLK MS09W0110B** Units : **µg/L** Run ID: **MSD_09_070110A** Prep Date: **01/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	11.1		10		111	76	127			
Surr: Toluene-d8	9.85		10		99	84	113			
Surr: 4-Bromofluorobenzene	10.1		10		101	79	119			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B**

File ID: **D:\HPCHEM\MS09\DATA\070110\07011003.D** Batch ID: **MS09W0110B** Analysis Date: **01/10/2007 09:56**

Sample ID: **GLCS MS09W0110B** Units : **µg/L** Run ID: **MSD_09_070110A** Prep Date: **01/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	381	50	400		95	78	127			
Surr: 1,2-Dichloroethane-d4	11.2		10		112	76	127			
Surr: Toluene-d8	9.9		10		99	84	113			
Surr: 4-Bromofluorobenzene	10.3		10		103	79	119			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B**

File ID: **D:\HPCHEM\MS09\DATA\070110\07011007.D** Batch ID: **MS09W0110B** Analysis Date: **01/10/2007 11:44**

Sample ID: **07010801-01AGS** Units : **µg/L** Run ID: **MSD_09_070110A** Prep Date: **01/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2540	250	2000	259.7	114	70	139			
Surr: 1,2-Dichloroethane-d4	56.2		50		112	76	127			
Surr: Toluene-d8	48.9		50		98	84	113			
Surr: 4-Bromofluorobenzene	51.6		50		103	79	119			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B**

File ID: **D:\HPCHEM\MS09\DATA\070110\07011008.D** Batch ID: **MS09W0110B** Analysis Date: **01/10/2007 12:07**

Sample ID: **07010801-01AGSD** Units : **µg/L** Run ID: **MSD_09_070110A** Prep Date: **01/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2580	250	2000	259.7	116	70	139	2536	1.7(12)	
Surr: 1,2-Dichloroethane-d4	54.8		50		110	76	127			
Surr: Toluene-d8	49.3		50		99	84	113			
Surr: 4-Bromofluorobenzene	51.1		50		102	79	119			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 29-Jan-07

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MS11\DATA\070109\07010903.D** Batch ID: **16547** Analysis Date: **01/09/2007 11:40**

Sample ID: **MBLK-16547** Units : **µg/L** Run ID: **MSD_11_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	ND	5000								
Ethanol	ND	5000								
Surr: Hexafluoro-2-propanol	509		500		102	63	137			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MS11\DATA\070109\07010904.D** Batch ID: **16547** Analysis Date: **01/09/2007 12:00**

Sample ID: **LCS-16547** Units : **µg/L** Run ID: **MSD_11_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	254	50	250		101	45	155			
Ethanol	259	5	250		103	51	144			
Surr: Hexafluoro-2-propanol	532		500		106	63	137			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MS11\DATA\070109\07010906.D** Batch ID: **16547** Analysis Date: **01/09/2007 12:41**

Sample ID: **07010801-02AMS** Units : **µg/L** Run ID: **MSD_11_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	286	50	250	0	114	45	163			
Ethanol	264	5	250	0	106	50	149			
Surr: Hexafluoro-2-propanol	515		500		103	63	137			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B-DI**

File ID: **C:\HPCHEM\MS11\DATA\070109\07010907.D** Batch ID: **16547** Analysis Date: **01/09/2007 13:01**

Sample ID: **07010801-02AMSD** Units : **µg/L** Run ID: **MSD_11_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	276	50	250	0	111	45	163	285.9	3.4(22)	
Ethanol	255	5	250	0	102	50	149	264.3	3.4(15)	
Surr: Hexafluoro-2-propanol	504		500		101	63	137			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *29-Jan-07*

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method 160.1 / SM 2540 C**

File ID: Batch ID: **W070112TDS** Analysis Date: **01/12/2007 00:00**

Sample ID: **MBLK-W070112TDS** Units : **µg/L** Run ID: **WETLAB_070112E** Prep Date: **01/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Dissolved (TDS)	ND	10000								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 160.1 / SM 2540 C**

File ID: Batch ID: **W070112TDS** Analysis Date: **01/12/2007 00:00**

Sample ID: **LCS-W070112TDS** Units : **µg/L** Run ID: **WETLAB_070112E** Prep Date: **01/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Dissolved (TDS)	187000	10000	200000		94	80	120			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *29-Jan-07*

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method 350.3 / SM4500-NH3F**

File ID: Batch ID: **W070112AMM** Analysis Date: **01/12/2007 00:00**

Sample ID: **MBLK-W070112AMM** Units : **µg/L** Run ID: **WETLAB_070112B** Prep Date: **01/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	ND	100								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 350.3 / SM4500-NH3F**

File ID: Batch ID: **W070112AMM** Analysis Date: **01/12/2007 00:00**

Sample ID: **LCS-W070112AMM** Units : **µg/L** Run ID: **WETLAB_070112B** Prep Date: **01/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5260	100	5000		105	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 350.3 / SM4500-NH3F**

File ID: Batch ID: **W070112AMM** Analysis Date: **01/12/2007 00:00**

Sample ID: **W07010801-05AMS** Units : **µg/L** Run ID: **WETLAB_070112B** Prep Date: **01/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5630	100	5000	0	113	65	138			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 350.3 / SM4500-NH3F**

File ID: Batch ID: **W070112AMM** Analysis Date: **01/12/2007 00:00**

Sample ID: **W07010801-05AMSD** Units : **µg/L** Run ID: **WETLAB_070112B** Prep Date: **01/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5460	100	5000	0	109	65	138	5630	3.1(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *29-Jan-07*

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **SM3500-Fe D**

File ID: Batch ID: **W070109FER** Analysis Date: **01/09/2007 00:00**

Sample ID: **MBLK-W070109FER** Units : **µg/L** Run ID: **WETLAB_070109F** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	ND	50								

Laboratory Control Spike

Type **LCS** Test Code: **SM3500-Fe D**

File ID: Batch ID: **W070109FER** Analysis Date: **01/09/2007 00:00**

Sample ID: **LCS-W070109FER** Units : **µg/L** Run ID: **WETLAB_070109F** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1380	50	1500		92	85	115			

Sample Matrix Spike

Type **MS** Test Code: **SM3500-Fe D**

File ID: Batch ID: **W070109FER** Analysis Date: **01/09/2007 00:00**

Sample ID: **W07010801-05AMS** Units : **µg/L** Run ID: **WETLAB_070109F** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1390	50	1500	0	92	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM3500-Fe D**

File ID: Batch ID: **W070109FER** Analysis Date: **01/09/2007 00:00**

Sample ID: **W07010801-05AMSD** Units : **µg/L** Run ID: **WETLAB_070109F** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1390	50	1500	0	93	70	130	1387	0.2(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 29-Jan-07

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **SM3500-Fe D**

File ID: Batch ID: **W070115FET** Analysis Date: **01/15/2007 00:00**

Sample ID: **MBLK-W070115FET** Units : **µg/L** Run ID: **WETLAB_070115C** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	ND	300								

Laboratory Control Spike

Type **LCS** Test Code: **SM3500-Fe D**

File ID: Batch ID: **W070115FET** Analysis Date: **01/15/2007 00:00**

Sample ID: **LCS-W070115FET** Units : **µg/L** Run ID: **WETLAB_070115C** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	8620	300	10000		86	85	115			

Sample Matrix Spike

Type **MS** Test Code: **SM3500-Fe D**

File ID: Batch ID: **W070115FET** Analysis Date: **01/15/2007 00:00**

Sample ID: **07010801-05AMS** Units : **µg/L** Run ID: **WETLAB_070115C** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	9530	300	10000	1012	85	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM3500-Fe D**

File ID: Batch ID: **W070115FET** Analysis Date: **01/15/2007 00:00**

Sample ID: **07010801-05AMSD** Units : **µg/L** Run ID: **WETLAB_070115C** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	9620	300	10000	1012	86	70	130	9531	0.9(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *29-Jan-07*

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method 365.2 / SM4500PE**

File ID: Batch ID: **W070109OPHOS** Analysis Date: **01/09/2007 00:00**

Sample ID: **MBLK-W070109OPHOS** Units : **µg/L** Run ID: **WETLAB_070109B** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate	ND	100								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 365.2 / SM4500PE**

File ID: Batch ID: **W070109OPHOS** Analysis Date: **01/09/2007 00:00**

Sample ID: **LCS-W070109OPHOS** Units : **µg/L** Run ID: **WETLAB_070109B** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate	1010	100	1000		101	80	116			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 365.2 / SM4500PE**

File ID: Batch ID: **W070109OPHOS** Analysis Date: **01/09/2007 00:00**

Sample ID: **07010801-05AMS** Units : **µg/L** Run ID: **WETLAB_070109B** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate	1090	100	1000	110	98	80	116			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 365.2 / SM4500PE**

File ID: Batch ID: **W070109OPHOS** Analysis Date: **01/09/2007 00:00**

Sample ID: **07010801-05AMSD** Units : **µg/L** Run ID: **WETLAB_070109B** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate	1100	100	1000	110	99	80	116	1091	0.5(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *29-Jan-07*

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method 365.2 / SM4500PE**

File ID: Batch ID: **W070115TPHOS** Analysis Date: **01/15/2007 00:00**

Sample ID: **MBLK-W070115TPHOS** Units : **µg/L** Run ID: **WETLAB_070115A** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Phosphorus, Total (As P)	ND	100								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 365.2 / SM4500PE**

File ID: Batch ID: **W070115TPHOS** Analysis Date: **01/15/2007 00:00**

Sample ID: **LCS-W070115TPHOS** Units : **µg/L** Run ID: **WETLAB_070115A** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Phosphorus, Total (As P)	1010	100	1000		101	80	118			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 365.2 / SM4500PE**

File ID: Batch ID: **W070115TPHOS** Analysis Date: **01/15/2007 00:00**

Sample ID: **07010801-05AMS** Units : **µg/L** Run ID: **WETLAB_070115A** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Phosphorus, Total (As P)	1060	100	1000	124	93	80	118			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 365.2 / SM4500PE**

File ID: Batch ID: **W070115TPHOS** Analysis Date: **01/15/2007 00:00**

Sample ID: **07010801-05AMSD** Units : **µg/L** Run ID: **WETLAB_070115A** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Phosphorus, Total (As P)	1130	100	1000	124	101	80	118	1058	6.6(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *29-Jan-07*

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method 300.0 / 9056**

File ID: **15** Batch ID: **16548B** Analysis Date: **01/09/2007 12:02**

Sample ID: **MB-16548** Units : **µg/L** Run ID: **IC_1_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	ND	500								

Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0 / 9056**

File ID: **16** Batch ID: **16548B** Analysis Date: **01/09/2007 12:21**

Sample ID: **LFB-16548** Units : **µg/L** Run ID: **IC_1_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	1100	500	1000		110	90	110			

Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0 / 9056**

File ID: **26** Batch ID: **16548B** Analysis Date: **01/09/2007 15:25**

Sample ID: **07010801-05ALFM** Units : **µg/L** Run ID: **IC_1_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	82200	500	20000	59140	115	80	120			

Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0 / 9056**

File ID: **27** Batch ID: **16548B** Analysis Date: **01/09/2007 15:44**

Sample ID: **07010801-05ALFMD** Units : **µg/L** Run ID: **IC_1_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	82300	500	20000	59140	116	80	120	82200	0.2(2)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *29-Jan-07*

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method SW9060/415.1/SM-5310C**

File ID: Batch ID: **TOC011207** Analysis Date: **01/12/2007 00:00**

Sample ID: **MBLK-TOC011207** Units : **µg/L** Run ID: **TOC_070112B** Prep Date: **01/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	ND	1000								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW9060/415.1/SM-5310C**

File ID: Batch ID: **TOC011207** Analysis Date: **01/12/2007 00:00**

Sample ID: **LCS-TOC011207** Units : **µg/L** Run ID: **TOC_070112B** Prep Date: **01/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	5090	1000	5000		102	74	126			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW9060/415.1/SM-5310C**

File ID: Batch ID: **TOC011207** Analysis Date: **01/12/2007 00:00**

Sample ID: **07011129-02AMS** Units : **µg/L** Run ID: **TOC_070112B** Prep Date: **01/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	7470	1000	5000	2540	99	56	137			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW9060/415.1/SM-5310C**

File ID: Batch ID: **TOC011207** Analysis Date: **01/12/2007 00:00**

Sample ID: **07011129-02AMSD** Units : **µg/L** Run ID: **TOC_070112B** Prep Date: **01/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	7040	1000	5000	2540	90	56	137	7470	5.9(20)	

Comments

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *29-Jan-07*

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method 300.0 / 9056**

File ID: **15** Batch ID: **16548A** Analysis Date: **01/09/2007 12:02**

Sample ID: **MB-16548** Units : **µg/L** Run ID: **IC_1_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	ND	250								
Nitrate (NO3) - N	ND	250								

Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0 / 9056**

File ID: **16** Batch ID: **16548A** Analysis Date: **01/09/2007 12:21**

Sample ID: **LFB-16548** Units : **µg/L** Run ID: **IC_1_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	507	250	500		101	90	110			
Nitrate (NO3) - N	525	250	500		105	90	110			

Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0 / 9056**

File ID: **26** Batch ID: **16548A** Analysis Date: **01/09/2007 15:25**

Sample ID: **07010801-05ALFM** Units : **µg/L** Run ID: **IC_1_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	10800	250	10000	0	108	80	120			
Nitrate (NO3) - N	12900	250	10000	2385	106	80	120			

Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0 / 9056**

File ID: **27** Batch ID: **16548A** Analysis Date: **01/09/2007 15:44**

Sample ID: **07010801-05ALFMD** Units : **µg/L** Run ID: **IC_1_070109A** Prep Date: **01/09/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	10900	250	10000	0	109	80	120	10810	1.2(2)	
Nitrate (NO3) - N	13100	250	10000	2385	107	80	120	12940	1.2(2)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 29-Jan-07

QC Summary Report

Work Order: 07010801

Method Blank

Type **MBLK** Test Code: **EPA Method 376.2 / SM4500-S D**

File ID: Batch ID: **W070115SULF** Analysis Date: **01/15/2007 00:00**

Sample ID: **MBLK-W070115SULF** Units : **µg/L** Run ID: **WETLAB_070115B** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND	100								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 376.2 / SM4500-S D**

File ID: Batch ID: **W070115SULF** Analysis Date: **01/15/2007 00:00**

Sample ID: **LCS-W070115SULF** Units : **µg/L** Run ID: **WETLAB_070115B** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1030	100	1000		103	75	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 376.2 / SM4500-S D**

File ID: Batch ID: **W070115SULF** Analysis Date: **01/15/2007 00:00**

Sample ID: **07010801-05AMS** Units : **µg/L** Run ID: **WETLAB_070115B** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1090	100	1000	0	109	65	150			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 376.2 / SM4500-S D**

File ID: Batch ID: **W070115SULF** Analysis Date: **01/15/2007 00:00**

Sample ID: **07010801-05AMSD** Units : **µg/L** Run ID: **WETLAB_070115B** Prep Date: **01/15/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1110	100	1000	0	111	65	150	1090	1.8(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per liter, per client request.

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

January 19, 2007

CLS Work Order #: CQA0217
COC #:

Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: STR07010801

Enclosed are the results of analyses for samples received by the laboratory on 01/08/07 15:40. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

01/19/07 08:16

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07010801 Project Number: STR07010801 Project Manager: Reyna Vallejo	**CLS Work Order #: CQA0217** COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

ANALYST: ib

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR07010801-05A (MW7) (CQA0217-01) Water Sampled: 01/08/07 11:11 Received: 01/08/07 15:40									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ00211	01/09/07	01/14/07	EPA 405.1	
STR07010801-06A (MW8) (CQA0217-02) Water Sampled: 01/08/07 11:00 Received: 01/08/07 15:40									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ00211	01/09/07	01/14/07	EPA 405.1	
STR07010801-07A (EX-1) (CQA0217-03) Water Sampled: 01/08/07 08:01 Received: 01/08/07 15:40									
Biochemical Oxygen Demand	**4.1**	3.0	mg/L	1	CQ00211	01/09/07	01/14/07	EPA 405.1	
STR07010801-08A (EX-2) (CQA0217-04) Water Sampled: 01/08/07 11:56 Received: 01/08/07 15:40									
Biochemical Oxygen Demand	**14**	3.0	mg/L	1	CQ00211	01/09/07	01/14/07	EPA 405.1	
STR07010801-09A (EX-3) (CQA0217-05) Water Sampled: 01/08/07 09:48 Received: 01/08/07 15:40									
Biochemical Oxygen Demand	**9.9**	3.0	mg/L	1	CQ00211	01/09/07	01/14/07	EPA 405.1	

CALIFORNIA LABORATORY SERVICES

01/19/07 08:16

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07010801 Project Number: STR07010801 Project Manager: Reyna Vallejo	**CLS Work Order #: CQA0217** COC #:

Microbiological Parameters by APHA Standard Methods

ANALYST: RE

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR07010801-05A (MW7) (CQA0217-01) Water Sampled: 01/08/07 11:11 Received: 01/08/07 15:40									
Plate Count	**100**	1	CFU/mL	1	CQ00207	01/08/07	01/10/07	SM 9215	
STR07010801-06A (MW8) (CQA0217-02) Water Sampled: 01/08/07 11:00 Received: 01/08/07 15:40									
Plate Count	**600**	1	CFU/mL	1	CQ00207	01/08/07	01/10/07	SM 9215	
STR07010801-07A (EX-1) (CQA0217-03) Water Sampled: 01/08/07 08:01 Received: 01/08/07 15:40									**HT-2**
Plate Count	**11000**	1	CFU/mL	1	CQ00207	01/08/07	01/10/07	SM 9215	
STR07010801-08A (EX-2) (CQA0217-04) Water Sampled: 01/08/07 11:56 Received: 01/08/07 15:40									
Plate Count	**41000**	1	CFU/mL	1	CQ00207	01/08/07	01/10/07	SM 9215	
STR07010801-09A (EX-3) (CQA0217-05) Water Sampled: 01/08/07 09:48 Received: 01/08/07 15:40									
Plate Count	**6600**	1	CFU/mL	1	CQ00207	01/08/07	01/10/07	SM 9215	

CALIFORNIA LABORATORY SERVICES

01/19/07 08:16

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07010801 Project Number: STR07010801 Project Manager: Reyna Vallejo	**CLS Work Order #: CQA0217** COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CQ00211 - General										
Blank (CQ00211-BLK1)				Prepared: 01/09/07 Analyzed: 01/14/07						
Biochemical Oxygen Demand	ND	3.0	mg/L							
LCS (CQ00211-BS1)				Prepared: 01/09/07 Analyzed: 01/14/07						
Biochemical Oxygen Demand	195	3.0	mg/L	200		97.5	55-125		24	
LCS Dup (CQ00211-BSD1)				Prepared: 01/09/07 Analyzed: 01/14/07						
Biochemical Oxygen Demand	192	3.0	mg/L	200		96.0	55-125	1.55	24	

CALIFORNIA LABORATORY SERVICES

01/19/07 08:16

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07010801 Project Number: STR07010801 Project Manager: Reyna Vallejo	**CLS Work Order #: CQA0217** COC #:

Notes and Definitions

HT-2	This sample was extracted/analyzed outside the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical, Inc.

Phone : (775) 355-1044 FAX : (775) 355-0406

Sample Receipt Checklist

Date Report is due to Client : **1/17/2007** Date of Notice : **1/9/2007 10:20:37 A**

Please take note of any NO check marks. If we receive no response concerning these items within 24 hours of the date of this notice, all of the samples will be analyzed as requested.

Client Name: **Stratus Environmental**
Project ID : **2007-0057-01/ USA 57**
Project Manager: **Gowri Kowtha**
Client's EMail: **gkowtha@stratusinc.net**
Client's Phone: **(530) 676-6001** Client's FAX: **(530) 676-6005**
Work Order Number: **STR07010801**
Date Received: **1/9/2007** Received by: Elizabeth Sauvageau

Chain of Custody (COC) Information

Carrier name: FedEx

Chain of custody present ?	Yes ☑	No ☐	
Custody seals intact on shippping container/cooler ?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles ?	Yes ☐	No ☐	Not Present ☑
Chain of custody signed when relinquished and received ?	Yes ☑	No ☐	
Chain of custody agrees with sample labels ?	Yes ☑	No ☐	
Sample ID noted by Client on COC ?	Yes ☑	No ☐	
Date and time of collection noted by Client on COC ?	Yes ☑	No ☐	
Samplers's name noted on COC ?	Yes ☑	No ☐	
Internal Chain of Custody (COC) requested ?	Yes ☐	No ☑	
Sub Contract Lab Used :	None ☐	See Comments ☑	

Sample Receipt Information

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance (0-6°C)?	Yes ☑	No ☐	Cooler Temperature 4 °C
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TOC Water - pH acceptable upon receipt (H2SO4 pH<2)?	Yes ☑	No ☐	N/A ☐

Analytical Requirement Information

Are non-Standard or Modified methods requested ?	Yes ☐	No ☑	
Are there client specific Project requirements ?	Yes ☐	No ☑	If YES : see the Chain of Custody (COC)

Comments : Heterotrophic Plate Count and BOD subbed to CLS.

Billing Information :

CHAIN-OF-CUSTODY RECORD

(AMENDED)

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR07010801

Report Due By : 5:00 PM On : 17-Jan-07

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Gowri Kowtha
TEL : (530) 676-6001 x
FAX : (530) 676-6005
EMail : gkowtha@stratusinc.net

EDD Required : **Yes**

Sampled by : Vince Zalutka

Report Attention : Gowri Kowtha
CC Report :

Job : 2007-0057-01/ USA 57
PO :
Client's COC # : none

Cooler Temp	Samples Received	Date Printed
4 °C	09-Jan-07	**11-Jan-07**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests 3500FE_2OS_W	3500FE_TOT_W	ALCOHOL_W	AMMONIA_W	ANIONS(A)_W	ANIONS(B)_W	BOD	HETEROTROPIC	Sample Remarks
STR07010801-01A	S-1	AQ	01/08/07 06:16	7	0	6				MeOH / EtOH						
STR07010801-02A	S-2	AQ	01/08/07 06:57	7	0	6				MeOH / EtOH						
STR07010801-03A	MW-3	AQ	01/08/07 07:45	7	0	6				MeOH / EtOH						
STR07010801-04A	MW-4	AQ	01/08/07 06:45	7	0	6				MeOH / EtOH						
STR07010801-05A	MW-7	AQ	01/08/07 11:11	13	0	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-06A	MW-8	AQ	01/08/07 11:00	13	0	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-07A	EX-1	AQ	01/08/07 08:01	13	0	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-08A	EX-2	AQ	01/08/07 11:56	13	0	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-09A	EX-3	AQ	01/08/07 09:48	13	0	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-10A	EX-4	AQ	01/08/07 10:39	7	0	6				MeOH / EtOH						

Comments: Security seals intact. Frozen ice. Chain pre-logged 1/8/07 in order for SAC office to sub Heterotrophic Plate Count and BOD to CLS. TOC pH=2. Send copy of receipt checklist with final report. ; Amended 1/11/07: Corrected comments on sub labs. ES

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Sauvageau	Elizabeth Sauvageau	**Alpha Analytical, Inc.**	1-11-07 10:43

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR07010801

Report Due By : 5:00 PM On : 17-Jan-07

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention : Gowri Kowtha
CC Report :

Gowri Kowtha
TEL : (530) 676-6001 x
FAX : (530) 676-6005
EMail : gkowtha@stratusinc.net

Job : 2007-0057-01/ USA 57
PO :

Client's COC # : none

EDD Required : **Yes**

Sampled by : Vince Zalutka

Cooler Temp	Samples Received	Date Printed
4 °C	09-Jan-07	11-Jan-07

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests ORTHOPHOS_W	PHOSPHORUS_W	SULFIDE	TDS	TOC_W	TPH/P_W	VOC_W		Sample Remarks
STR07010801-01A	S-1	AQ	01/08/07 06:16	7	0	6							GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		
STR07010801-02A	S-2	AQ	01/08/07 06:57	7	0	6							GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		
STR07010801-03A	MW-3	AQ	01/08/07 07:45	7	0	6							GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		
STR07010801-04A	MW-4	AQ	01/08/07 06:45	7	0	6							GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		
STR07010801-05A	MW-7	AQ	01/08/07 11:11	13	0	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-06A	MW-8	AQ	01/08/07 11:00	13	0	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-07A	EX-1	AQ	01/08/07 08:01	13	0	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-08A	EX-2	AQ	01/08/07 11:56	13	0	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		Heterotrophic Plate Count and BOD subbed to CLS.

Comments: Security seals intact. Frozen ice. Chain pre-logged 1/8/07 in order for SAC office to sub Heterotrophic Plate Count and BOD to CLS. TOC pH=2. Send copy of receipt checklist with final report. : Amended 1/11/07: Corrected comments on sub labs. ES

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Sauvageau	Elizabeth Sauvageau	Alpha Analytical, Inc.	1-11-07 10:43

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR07010801

Report Due By : 5:00 PM On : 17-Jan-07

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention : Gowri Kowtha
CC Report :

Gowri Kowtha
TEL : (530) 676-6001 x
FAX : (530) 676-6005
EMail : gkowtha@stratusinc.net

Job : 2007-0057-01/ USA 57
PO :

Client's COC # : none

EDD Required : **Yes**

Sampled by : Vince Zalutka

Cooler Temp	Samples Received	Date Printed
4 °C	09-Jan-07	11-Jan-07

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests ORTHOPHOS_W	PHOSPHORUS_W	SULFIDE	TDS	TOC_W	TPH/P_W	VOC_W		Sample Remarks
STR07010801-09A	EX-3	AQ	01/08/07 09:48	13	0	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-10A	EX-4	AQ	01/08/07 10:39	7	0	6							GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		

Comments: Security seals intact. Frozen ice. Chain pre-logged 1/8/07 in order for SAC office to sub Heterotrophic Plate Count and BOD to CLS. TOC pH=2. Send copy of receipt checklist with final report. : Amended 1/11/07: Corrected comments on sub labs. ES

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Sauvageau	Elizabeth Sauvageau	Alpha Analytical, Inc.	1-11-07 10:43

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : STR07010801

Report Due By : 5:00 PM On : 17-Jan-07

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention : Gowri Kowtha
CC Report :

Gowri Kowtha
TEL : (530) 676-6001 x
FAX : (530) 676-6005
EMail gkowtha@stratusinc.net

Job : 2007-0057-01/ USA 57
PO :

Client's COC # : none

EDD Required : **Yes**

Sampled by : Vince Zalutka

Cooler Temp	Samples Received	Date Printed
4 °C	09-Jan-07	09-Jan-07

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests 3500FE_2O3_W	3500FE_TOT_W	ALCOHOL_W	AMMONIA_W	ANIONS(A)_W	ANIONS(B)_W	BOD	HETEROTROPIC	Sample Remarks
STR07010801-01A	S-1	AQ	01/08/07 06:16	7	0	6				MeOH / EtOH						
STR07010801-02A	S-2	AQ	01/08/07 06:57	7	0	6				MeOH / EtOH						
STR07010801-03A	MW-3	AQ	01/08/07 07:45	7	0	6				MeOH / EtOH						
STR07010801-04A	MW-4	AQ	01/08/07 06:45	7	0	6				MeOH / EtOH						
STR07010801-05A	MW-7	AQ	01/08/07 11:11	13	0	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-06A	MW-8	AQ	01/08/07 11:00	13	0	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-07A	EX-1	AQ	01/08/07 08:01	13	0	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-08A	EX-2	AQ	01/08/07 11:56	13	0	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-09A	EX-3	AQ	01/08/07 09:48	13	0	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-10A	EX-4	AQ	01/08/07 10:39	7	0	6				MeOH / EtOH						

Comments: Security seals intact. Frozen ice. Chain pre-logged 1/8/07 in order for SAC office to sub Heterotrophic Plate Count and Hexavalent Chromium to CLS and Bromate to MWH Labs. TOC pH=2. Send copy of receipt checklist with final report. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Sauvageau	Elizabeth Sauvageau	Alpha Analytical, Inc.	1-9-07 10:19

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR07010801

Report Due By : 5:00 PM On : 17-Jan-07

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention : Gowri Kowtha
CC Report :

Gowri Kowtha
TEL : (530) 676-6001 x
FAX : (530) 676-6005
EMail gkowtha@stratusinc.net

Job : 2007-0057-01/ USA 57
PO :

Client's COC # : none

EDD Required : **Yes**

Sampled by : Vince Zalutka

Cooler Temp	Samples Received	Date Printed
4 °C	09-Jan-07	**09-Jan-07**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests ORTHOPHOS_W	PHOSPHORUS_W	SULFIDE	TDS	TOC_W	TPH/P_W	VOC_W	Sample Remarks
STR07010801-01A	S-1	AQ	01/08/07 06:16	7	0	6							GAS-C	BTEX/OXY/1,2-DCA/EDB_C	
STR07010801-02A	S-2	AQ	01/08/07 06:57	7	0	6							GAS-C	BTEX/OXY/1,2-DCA/EDB_C	
STR07010801-03A	MW-3	AQ	01/08/07 07:45	7	0	6							GAS-C	BTEX/OXY/1,2-DCA/EDB_C	
STR07010801-04A	MW-4	AQ	01/08/07 06:45	7	0	6							GAS-C	BTEX/OXY/1,2-DCA/EDB_C	
STR07010801-05A	MW-7	AQ	01/08/07 11:11	13	0	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/1,2-DCA/EDB_C	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-06A	MW-8	AQ	01/08/07 11:00	13	0	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/1,2-DCA/EDB_C	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-07A	EX-1	AQ	01/08/07 08:01	13	0	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/1,2-DCA/EDB_C	Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-08A	EX-2	AQ	01/08/07 11:56	13	0	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/1,2-DCA/EDB_C	Heterotrophic Plate Count and BOD subbed to CLS.

Comments: Security seals intact. Frozen ice. Chain pre-logged 1/8/07 in order for SAC office to sub Heterotrophic Plate Count and Hexavalent Chromium to CLS and Bromate to MWH Labs. TOC pH=2. Send copy of receipt checklist with final report. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Sauvageau	Elizabeth Sauvageau	**Alpha Analytical, Inc.**	1-9-07 10:19

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR07010801

Report Due By : 5:00 PM On : 17-Jan-07

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Gowri Kowtha
TEL : (530) 676-6001 x
FAX : (530) 676-6005
EMail gkowtha@stratusinc.net

EDD Required : **Yes**

Report Attention : Gowri Kowtha
CC Report :

Job : 2007-0057-01/ USA 57
PO :

Client's COC # : none

Sampled by : Vince Zalutka

Cooler Temp	Samples Received	Date Printed
4 °C	09-Jan-07	**09-Jan-07**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests ORTHOPHOS_W	PHOSPHORUS_W	SULFIDE	TDS	TOC_W	TPH/P_W	VOC_W		Sample Remarks
STR07010801-09A	EX-3	AQ	01/08/07 09:48	13	0	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		Heterotrophic Plate Count and BOD subbed to CLS.
STR07010801-10A	EX-4	AQ	01/08/07 10:39	7	0	6							GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C		

Comments: Security seals intact. Frozen ice. Chain pre-logged 1/8/07 in order for SAC office to sub Heterotrophic Plate Count and Hexavalent Chromium to CLS and Bromate to MWH Labs. TOC pH=2. Send copy of receipt checklist with final report. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Sauvageau	Elizabeth Sauvageau	**Alpha Analytical, Inc.**	1-9-07 10:19

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:	Stratus Environmental	Global ID:	T0600101808
Address:	3330 Cameron Park Drive	EDF:	YES
City, State, Zip:	Cameron Park, CA 95667	Project #	2007-0057-01
Fax: 530-676-6005	Phone: 530-676-6001	Email:	
		Report Attention:	
Client:	USA 57	Sampled By:	Vince Zalutka
Address:	10700 McArthur Blvd.		
City, State, Zip:	Oakland, CA		

Alpha Analytical, Inc.
255 Glendale Avenue
Suite 21
Sparks, NV 89431
(775) 355-1044
(775) 355-0406 Fax

Page # 1 of 4

Time Sampled	Date Sampled	Matrix	Lab ID (For Lab Use ONLY)	Sample Description	Containers	TAT (Working Days)	TPH-G	BTEX	5 OXY's	1,2-DCA	EDB	Methanol	Ethanol			Remarks
							Analysis Requested									
0616	1/8/2007	AQ	STR07010801-01	S-1	HCL VOA's		X	X	X	X	X	X	X			
0657	1/8/2007	AQ	-02	S-2	HCL VOA's		X	X	X	X	X	X	X			
0745	1/8/2007	AQ	-03	MW-3	HCL VOA's		X	X	X	X	X	X	X			
0645	1/8/2007	AQ	-04	MW-4	HCL VOA's		X	X	X	X	X	X	X			
~~NM~~	~~1/8/2007~~	~~AQ~~		~~MW-5~~	HCL VOA's		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			NOT SAMPLED
~~NM~~	~~1/8/2007~~	~~AQ~~		~~MW-6~~	HCL VOA's		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			
1111	1/8/2007	AQ	-05	MW-7	HCL VOA's		X	X	X	X	X	X	X			
1100	1/8/2007	AQ	-06	MW-8	HCL VOA's		X	X	X	X	X	X	X			
0801	1/8/2007	AQ	-07	EX-1	HCL VOA's		X	X	X	X	X	X	X			
1156	1/8/2007	AQ	-08	EX-2	HCL VOA's		X	X	X	X	X	X	X			
0948	1/8/2007	AQ	-09	EX-3	HCL VOA's		X	X	X	X	X	X	X			
1039	1/8/2007	AQ	-10	EX-4	HCL VOA's		X	X	X	X	X	X	X			

ADDITIONAL INSTRUCTIONS:

	Signature		Company	Date	Time
Relinquished by:	Vince Zalutka	Vince Zalutka	Stratus Environmental	01-08-07	1415
Received by:	E. Fruciano	Edlma M. Fruciano	Alpha Analytical	01/08/07	1415
Relinquished by:					
Received by:	E Sauvageau	E. Sauvageau	Alpha	1-9-07	10:19
Relinquished by:					
Received by:					

Key: AQ - Aqueous WA - Waste OT - Other L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Billing Information:	Stratus Environmental	Global ID:	T0600101808
Address:	3330 Cameron Park Drive	EDF:	YES
City, State, Zip:	Cameron Park, CA 95667	Project #	2007-0057-01
Fax: 530-676-6005	Phone: 530-676-6001	Email:	
		Report Attention:	
Client:	USA 57	Sampled By:	Vince Zalutka
Address:	10700 McArthur Blvd.		
City, State, Zip:	Oakland, CA		

Alpha Analytical, Inc.
255 Glendale Avenue
Suite 21
Sparks, NV 89431
(775) 355-1044
(775) 355-0406 Fax

Page # 1 of 2

Time Sampled	Date Sampled	Matrix	Lab ID (For Lab Use ONLY)	Sample Description	Containers	TAT (Working Days)	BOC BOD	Total Iron & Ferrous Eron	HPC Hetero Plate ct.	TOC	TDS	NO3, NO2 @ Ammonia	Total P & Ortho-P	Sulfide Sulfate		Remarks
1111	1/8/2007	AQ	-05	MW-7	HCL VOA's		X	X	X	X	X	X	X			Watch short holding times
1100	1/8/2007	AQ	-06	MW-8	HCL VOA's		X	X	X	X	X	X	X			Watch short holding times
0801	1/8/2007	AQ	-07	EX-1	HCL VOA's		X	X	X	X	X	X	X			Watch short holding times
1156	1/8/2007	AQ	-08	EX-2	HCL VOA's		X	X	X	X	X	X	X			Watch short holding times
0948	1/8/2007	AQ	-09	EX-3	HCL VOA's		X	X	X	X	X	X	X			Watch short holding times
																BOD + HPC Subcd to CLS

ADDITIONAL INSTRUCTIONS:

	Signature		Company	Date	Time
Relinquished by:	Vince Zalutka	Vince Zalutka	Stratus Environmental	01-08-07	1415
Received by:	E. Fruciano	Eliana M. Fruciano	Alpha ~~Alpha~~ Analytical	01/08/07	1415
Relinquished by:					
Received by:	C Sauvageau	E. Sauvageau	Alpha	1-9-07	10:19
Relinquished by:					
Received by:					

Key: AQ - Aqueous WA - Waste OT - Other L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

APPENDIX D

GEOTRACKER
ELECTRONIC SUBMITTAL INFORMATION

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

UPLOADING A GEO_WELL FILE

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Title:	**USA 57, GEO_WELL, First Quarter 2007**
Submittal Date/Time:	**2/16/2007 10:50:45 AM**
Confirmation Number:	**7085116326**

Back to Main Menu

Logged in as STRATUS NOCAL (AUTH_RP) CONTACT SITE ADMINISTRATOR.

USA 57

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

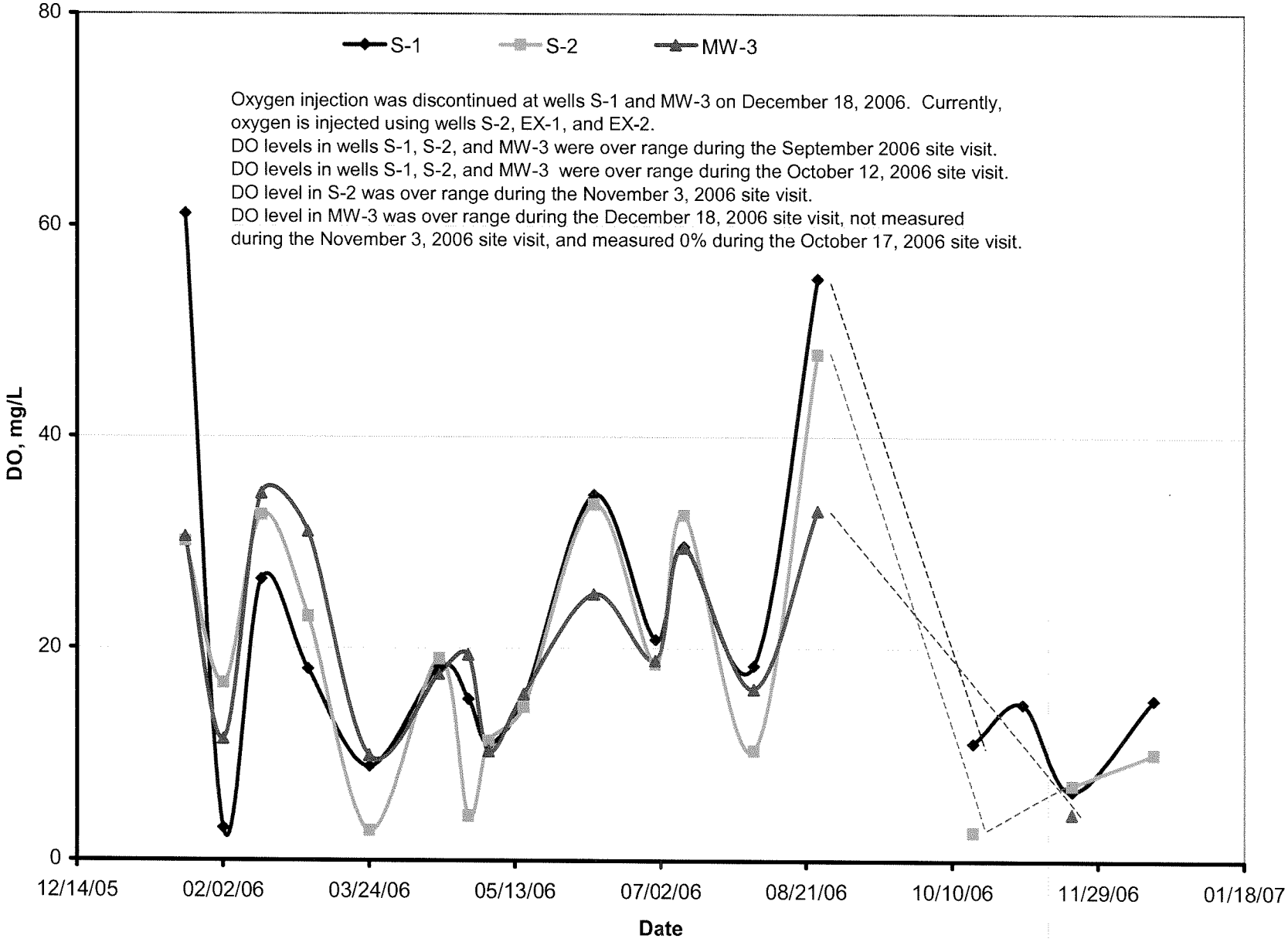
Your EDF file has been successfully uploaded!

Confirmation Number: 2798697412
Date/Time of Submittal: 3/28/2007 3:27:45 PM
Facility Global ID: T0600101808
Facility Name: USA PETROLEUM
Submittal Title: Influent Water Results for 1-8-7
Submittal Type: Remediation O & M Reports

APPENDIX E

HISTORICAL DO VARIATION WITH TIME AT INJECTION WELLS AND AT OBSERVATION AND BACKGROUND WELLS

Historical DO Variation with Time at Injection Wells
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California



Historical DO Variation with Time at Observation and Background Wells
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California