STRATUS
ENVIRONMENTAL, INC.

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July 27, 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
(via GeoTracker)

Re: Quarterly Groundwater Monitoring Report, Second 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 Moller Investment Group, Inc. (MIGI), is submitting the attached report, which presents the results of second 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 Scott Bittinger at (530) 676-2062.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Kiran Nagaraju
Staff Engineer

Scott G. Bittinger, P.G.
Project Manager

PROFESSIONAL GEOLOGIST
Scott G. Bittinger
No. 7477
STATE OF CALIFORNIA

Attachment: Quarterly Groundwater Monitoring Report, Second Quarter 2007

cc: Mr. Charles Miller, Moller Investment Group, Inc.
Mr. John Jay, Jay-Phares Corporation
Mr. Peter McIntyre, AEI Consultants

Date July 27, 2007

FORMER USA GASOLINE QUARTERLY GROUNDWATER MONITORING REPORT

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

MIGI Project Supervisor: Charles Miller

Consulting Co./Contact Person: Stratus Environmental, Inc./ Scott Bittinger, P.G.

Consultant Project No: 2007-0057-01

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

WORK PERFORMED THIS QUARTER (Second 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 April 9, 2007. Due to onsite construction activities, well MW-5 was covered by soil and hence this well could not be monitored or sampled on April 9, 2007. Stratus returned to the site on April 23, 2007 to relocate, monitor and sample MW-5.

2. Stratus conducted eight 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.

4. Stratus prepared and submitted a *Work Plan for Dual Phase Extraction and Air Sparge Hydrocarbon Mass Removal Event* to the Alameda County Health Care Services Agency (ACHCSA) on June 13, 2007.

WORK PROPOSED FOR NEXT QUARTER (Third 2007):

1. The next sampling event is tentatively scheduled for July 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.

3. Stratus prepared and submitted a *Self-Monitoring Report for January 2007 to June 2007* to the East Bay Municipal District documenting the volume of treated groundwater that was discharged to the sanitary sewer during the first half of 2007 on July 16, 2007.

4. Upon approval of the *Work Plan for Dual Phase Extraction and Air Sparge Hydrocarbon Mass Removal Event* by the ACHCSA, Stratus will oversee installation of air sparge wells at the site. Once these wells are installed, the mass removal event will be scheduled.

5. Per a conversation with ACHCSA, Stratus will destroy obstructed well MW-6. The well destruction will be completed during the same drilling event as the air sparge well installation.

Current Phase of Project:	Monitoring / Interim Remediation
Frequency of Groundwater Sampling:	All Wells = Quarterly
Frequency of Groundwater Monitoring:	Quarterly
Groundwater Sampling Date:	April 9, 2007 (Well MW-5 sampled on April 23, 2007)
Is Free Product (FP) Present on Site:	No
FP Recovered This Quarter:	NA
Cumulative FP Recovered to Date:	NA
Approximate Depth to Groundwater:	4.88 to 18.29 feet below top of well casing
Groundwater Flow Direction:	Southeast and southwest
Groundwater Gradient:	0.027 to 0.042 ft/ft

INTERIM REMEDIATION SYSTEM OPERATION AND PERFORMANCE

Equipment Inventory:	Oxygen Injection System (iSOC™-Manufactured by inVentures Technologies, Inc.)
System Status:	Operational
Reporting Period:	March 29 through June 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:	4,600 µg/L (EX-4)
Highest Benzene Concentration this Period:	730 µg/L (EX-4)
Highest MTBE Concentration this Period:	600 µg/L (MW-3)

DISCUSSION:

At the time of the second quarter 2007 monitoring event, groundwater elevations had increased between 0.30 and 1.53 feet in wells MW-4, MW-6, MW-8, and EX-1 through EX-4, and decreased between 0.08 and 0.29 feet in wells S-1, S-2, MW-3, and MW-7 since the previous monitoring event (January 8, 2007). The groundwater elevation at MW-3 during second quarter 2007 appears to have increased by approximately 9.44 feet since the previous quarterly monitoring event (January 2007). Since the groundwater elevation fluctuations in the other monitoring wells were in the range of 0.08 to 1.53 feet, data from well MW-3 appears to be anomalous. 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 MW-3 and EX-1 through EX-4 were not used in contour construction. The groundwater flow directions were generally to the southeast and southwest at average gradients ranging from approximately 0.027 to 0.042 ft/ft. South-southeast, south, and radial groundwater flow patterns have been observed during previous monitoring events.

GRO, benzene, and MTBE were reported in wells S-2, MW-3, EX-2, and EX-4. GRO and benzene were reported in wells EX-1 and EX-3, GRO and MTBE were reported in well S-1, and MTBE was reported in well MW-7. The maximum concentrations of GRO (4,600 µg/L) and benzene (730 µg/L) were reported in well EX-4, and the maximum concentration of MTBE (600 µg/L) was reported in well MW-3. TBA was reported in wells S-2 (32 µg/L) and MW-3 (510 µg/L). 1,2-DCA was reported in wells S-2 (1.3 µg/L) and MW-3 (67 µg/L). No concentrations of DIPE, ETBE, TAME, EDB, methanol, or ethanol were reported in any of the wells. These results are generally consistent with historical analytical data. Analytical results of

GRO, benzene, and MTBE for groundwater samples collected on April 9, 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, respectively. 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 second quarter 2007, average DO levels in injection wells S-2, EX-1, and EX-2 were 15.08 mg/L, 9.09 mg/L, and 6.07 mg/L, respectively. 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 1.07 mg/L to 4.63 mg/L, and 2.82 mg/L to 8.06 mg/L, respectively (Figure 5). Based on the bio-parameter data available, the heterotrophic plate counts reported for current 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 variations with time at wells S-1, S-2, MW-3, EX-1, and EX-2 are presented in Figures 6 through 10. The dissolved petroleum hydrocarbon concentrations generally appear to be influenced by the groundwater elevation fluctuations. A consistent declining trend in petroleum hydrocarbon concentrations has not been observed in the monitoring wells since the start-up of the oxygen injection system.

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 (Second Quarter 2007)
- Figure 3 Groundwater Analytical Summary (Second 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
	04/09/07	16.06		63.60	300	NA	<0.50	<0.50	<0.50	<0.50	22
	04/23/07	16.31		63.35	NA	NA	NA	NA	NA	NA	NA

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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
	04/09/07	18.29		63.61	360	NA	1.4	1.5	2.2	9.8	270

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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
	04/09/07	12.24		65.03	1,400	NA	380	6.6	22	12.5	600
	04/23/07	12.53		64.74	NA	NA	NA	NA	NA	NA	NA

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10700 MacArthur Blvd., Oakland, California

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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
	04/09/07	8.52		67.74	<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			
	04/09/07	NM		NM				Well Not Monitored or Sampled - Covered			
	04/23/07	11.90		68.88	<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-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						
	04/09/07	16.20		66.12	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50

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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
	04/09/07	15.27		64.54	<50	NA	<0.50	<0.50	<0.50	<0.50	0.54

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
	04/09/07	16.25		64.25	<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
	04/09/07	4.88		72.84	140	NA	1.3	<0.50	1.2	0.93	<0.50
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
	04/09/07	9.67		67.29	620	NA	160	17	24	58	6.0
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
	04/09/07	10.78		68.09	700	NA	8.9	<0.50	11	6.5	<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
	04/09/07	12.43		65.53	4,600	NA	730	78	83	410	6.5

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
	04/09/07	22	<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
	04/09/07	270	32	<1.0	<1.0	<1.0	1.3	<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
	04/09/07	600	510	<5.0[1]	<5.0[1]	<5.0[1]	67	<20[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)
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
	04/09/07	<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					
	04/09/07				Well Not Monitored or Sampled - Covered					
	04/23/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	NA	NA

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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						
	04/09/07	<0.50	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<5,000	<5,000

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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
	04/09/07	0.54	<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
	04/09/07	<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
	04/09/07	<0.50	<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
	04/09/07	6.0	<20[1]	<2.0[1]	<2.0[1]	<2.0[1]	<2.0[1]	<8.0[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
	04/09/07	<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-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
	04/09/07	6.5	<100[1]	<10[1]	<10[1]	<10[1]	<10[1]	<40[1]	<5,000	<5,000

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.	S-1, MW-3, 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.	S-1, MW-3, 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.	S-1, MW-3, 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.	S-1, MW-3, 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.	S-1, MW-3, 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.	S-1, MW-3, 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.	S-1, MW-3, 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.	S-1, MW-3, 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.	S-1, MW-3, 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
	04/09/07	21 feet (to EX-1)	16.06	1.57	7.72	0	1,076
	04/16/07	21 feet (to EX-1)	16.15	2.5	7.30	147	992
	04/23/07	21 feet (to EX-1)	16.31	6.9	7.30	121	968
	04/26/07	21 feet (to EX-1)	16.24	2.7	7.20	102	953
	05/02/07	21 feet (to EX-1)	16.34	0.26	7.02	139	1,020
	05/21/07	21 feet (to EX-1)	16.78	0.36	7.06	40	923
	06/09/07	21 feet (to EX-1)	16.96	0.35	7.11	24	1,002

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 (injection well)	07/19/05	Injection well	16.25	0.74	7.24	NM	669
	10/24/05	Injection well	18.07	NM	6.88	NM	490
	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
	04/09/07	Injection well	18.29	OR	7.73	173	1,079
	04/16/07	Injection well	18.34	14.18	7.50	220	962
	04/26/07	Injection well	18.41	15.98	7.50	240	956
	05/02/07	Injection well	18.50	OR	7.29	283	1,009
	05/21/07	Injection well	18.97	OR	7.23	155	901
	06/09/07	Injection well	19.10	OR	7.23	160	957

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
	04/09/07	15 feet (to EX-2)	12.24	0.19	7.80	118	993
	04/16/07	15 feet (to EX-2)	12.38	3.3	7.20	203	2.55
	04/23/07	15 feet (to EX-2)	12.53	9.9	7.50	161	683
	04/26/07	15 feet (to EX-2)	12.39	5.5	7.60	216	730
	05/02/07	15 feet (to EX-2)	12.35	4.42	7.68	217	1,011
	05/21/07	15 feet (to EX-2)	12.82	5.19	8.01	110	714
	06/09/07	15 feet (to EX-2)	13.37	3.92	7.36	209	1,104

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
	04/09/07	80 feet (to EX-1)	15.27	0.47	8.27	200	765
	04/16/07	80 feet (to EX-1)	15.32	2.7	7.60	174	981
	04/26/07	80 feet (to EX-1)	15.40	5.3	7.60	214	911
	05/02/07	80 feet (to EX-1)	15.49	0.97	7.49	303	978
	05/21/07	80 feet (to EX-1)	15.81	2.84	7.67	202	780
	06/09/07	80 feet (to EX-1)	16.00	4.65	7.56	210	757

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
	04/09/07	63 feet (to EX-2)	16.25	NM	7.74	218	1,495
	04/16/07	63 feet (to EX-2)	16.62	6.30	7.00	212	6.66
	04/26/07	63 feet (to EX-2)	16.57	5.70	7.10	242	667
	05/02/07	63 feet (to EX-2)	16.40	6.15	6.95	195	7.01
	05/21/07	63 feet (to EX-2)	16.85	5.49	6.91	174	5.19
	06/09/07	63 feet (to EX-2)	17.41	5.28	6.88	222	5.56

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
	04/09/07	Injection well	4.88	6.81	7.87	167	812
	04/16/07	Injection well	4.37	14.17	7.70	202	703
	04/26/07	Injection well	4.59	15.63	7.80	239	674
	05/02/07	Injection well	5.34	OR	7.73	309	734
	05/21/07	Injection well	5.74	6.49	7.38	208	673
	06/09/07	Injection well	6.18	2.33	7.42	72	714

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
	04/09/07	Injection well	9.67	8.03	7.78	173	1,365
	04/16/07	Injection well	9.96	1.6	7.40	143	1,397
	04/26/07	Injection well	10.02	12.7	7.50	142	1,278
	05/02/07	Injection well	10.09	9.32	7.34	312	1,348
	05/21/07	Injection well	10.40	4.06	7.22	207	1,238
	06/09/07	Injection well	10.73	3.93	7.21	171	1,346

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
	04/09/07	45 feet (to S-2)	10.78	0.53	7.90	93	813
	04/16/07	45 feet (to S-2)	6.00	1.9	7.40	176	525
	04/26/07	45 feet (to S-2)	9.65	2.3	7.40	165	723
	05/02/07	45 feet (to S-2)	10.20	0.83	7.21	-3	1,012
	05/21/07	45 feet (to S-2)	11.00	0.42	7.11	13	987
	06/09/07	45 feet (to S-2)	11.40	0.46	7.13	-13	1,190

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

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
	04/23/07	21	<3,000	110[3]	6,700	<50	5,400	<250	<250	<100	44,000	<100	<100	650,000	<100
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
	04/23/07	15	<3,000	27,000[3]	11,000	<50	1,000	<250	<250	<100	20,000	<100	100	1,700,000	<100
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
	04/09/07	80	<3,000	64	2,000	<50	430	<250	2,400	<100	53,000	<100	120	630,000	380
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
	04/09/07	63	<3,000	590	1,800	<50	4,000	<250	2,500	<100	83,000	<100	120	5,700,000	120
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
	04/09/07	Injection well	<3,000	780	6,400	<50	930	<250	1,400	<100	87,000	<100	120	480,000	170

TABLE 5

Analytical Parameter Summary

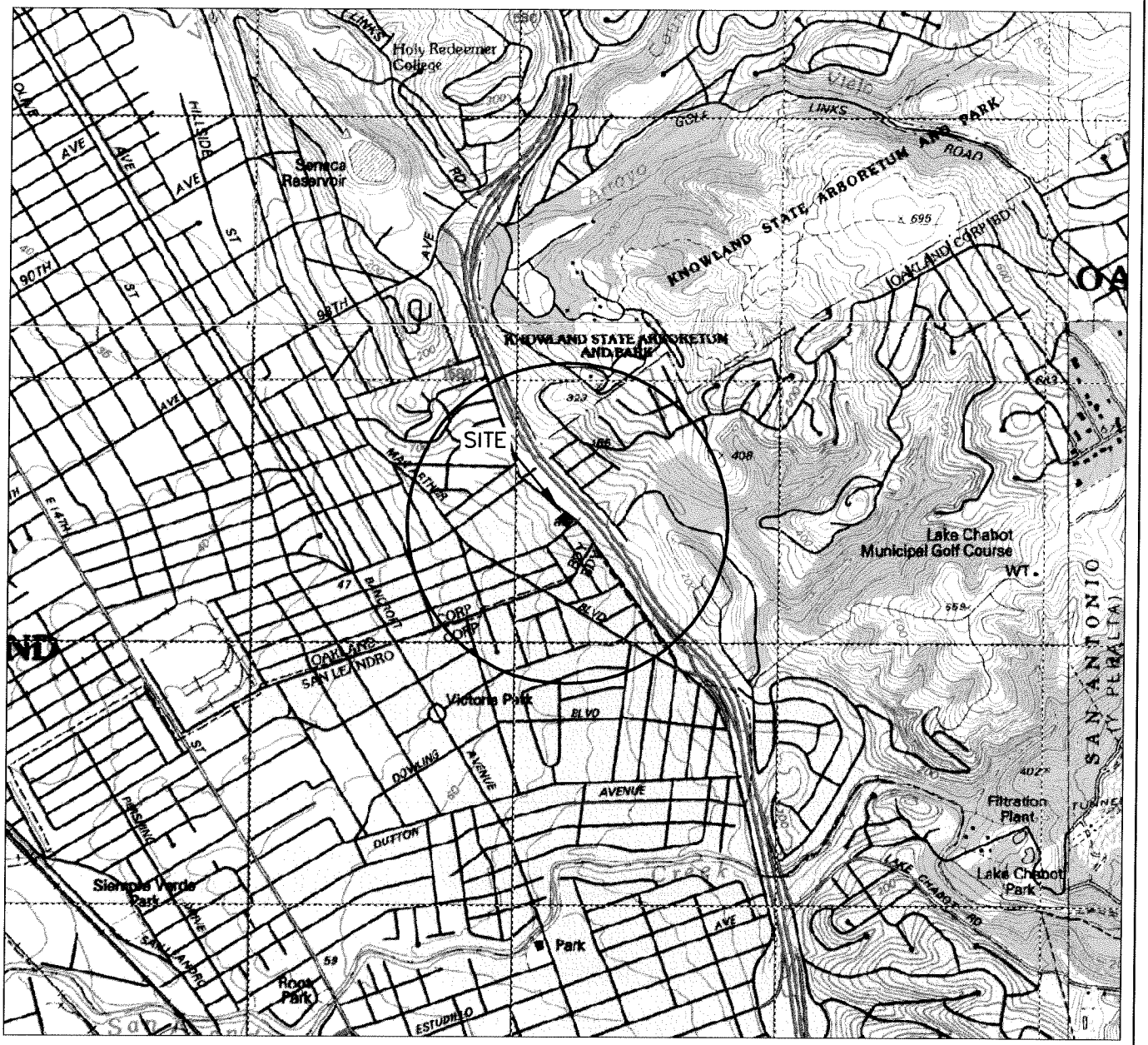
Former USA Service Station No. 57
10700 McArthur Boulevard, Oakland, California

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-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
	04/09/07	Injection well	<3,000	8,200	7,000	<50	14,000	<250	<250	<100	11,000	<100	<100	790,000	180
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
	04/09/07	45	8,400	13,000	12,000	420	3,800	<250	<250	<100	69,000	630	<100	800,000	210

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.
[3] = The sample was received outside of the EPA recommended holding time.



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

North

QUADRANGLE LOCATION

0 2000 FT

SCALE 1:24,000

STRATUS ENVIRONMENTAL, INC.

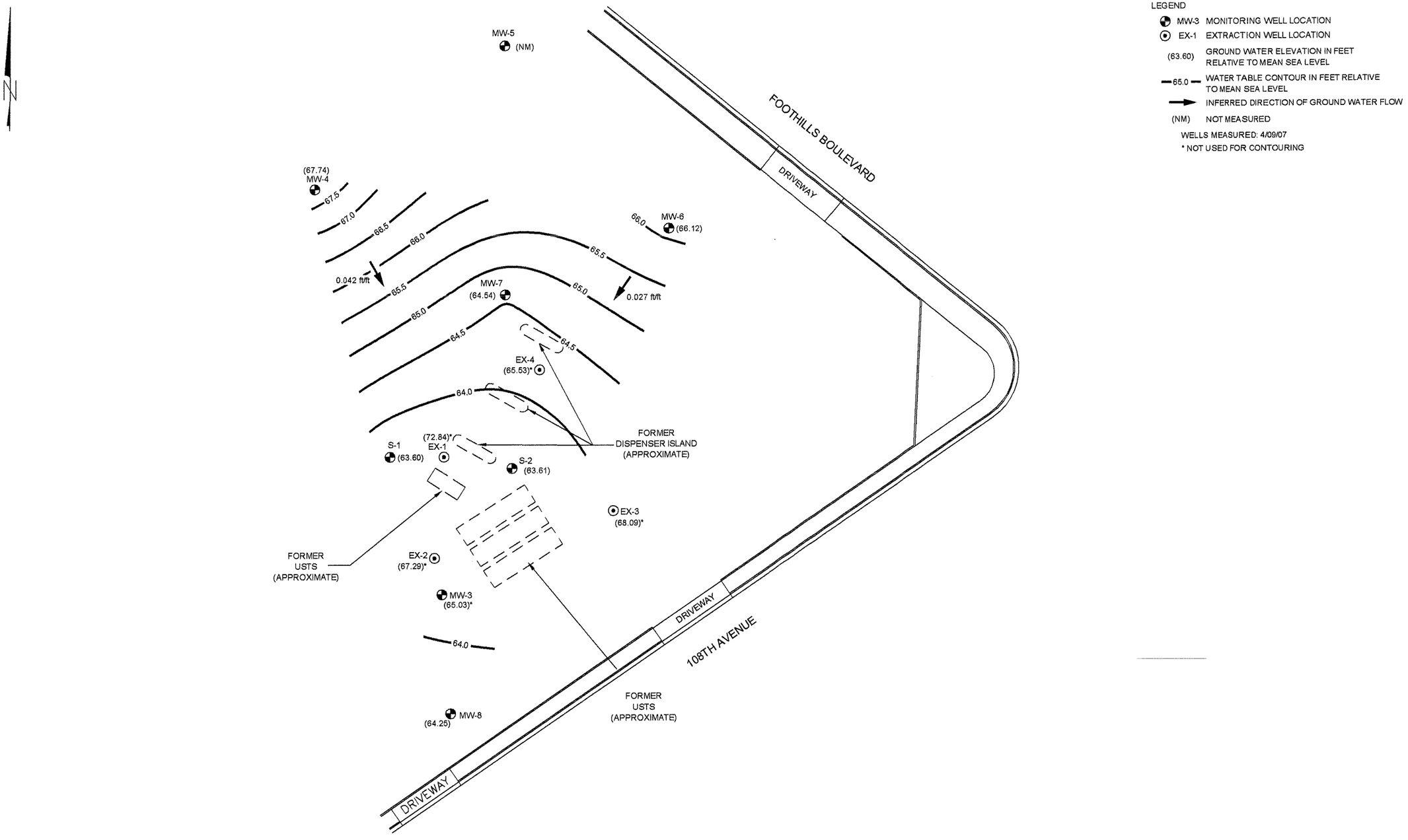
FORMER USA SERVICE STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE
1

PROJECT NO.
2007-0057-01

USA\57\Quarterly JMP May 29, 2007 USA 57Site Location Map.dwg



STRATUS
ENVIRONMENTAL, INC.

0 40 FT
HORZ. SCALE

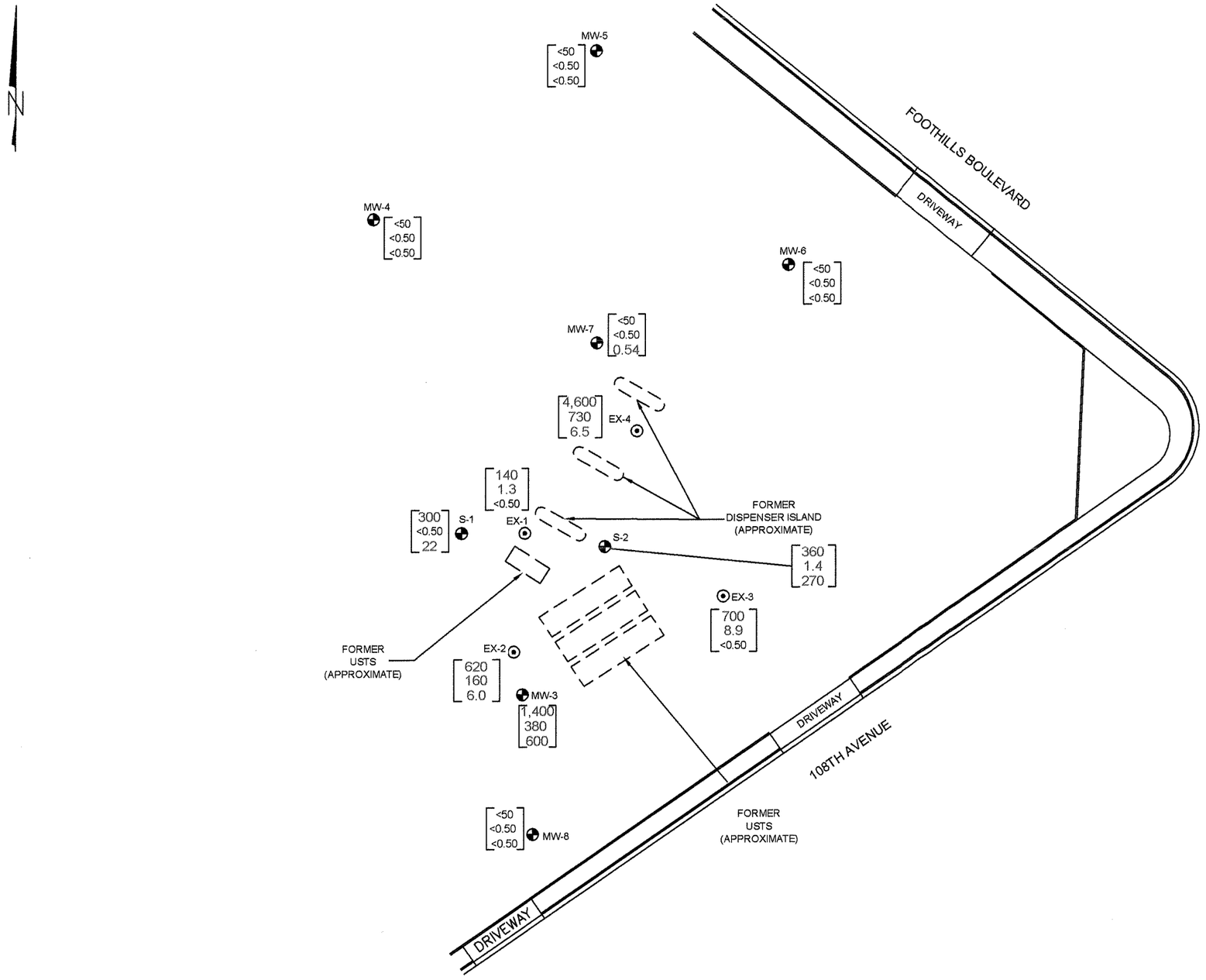
FORMER USA SERVICE STATION NO. 57
10700 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
2nd QUARTER 2007

FIGURE
2

PROJECT NO.
2007-0057-01

USA57\Quarterly JMP REV May 29, 2007 USA 57 Quarterly Figure.dwg



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

SAMPLES COLLECTED ON 4/07/09 EXCEPT FOR MW-5, COLLECTED ON 4/23/07

GRO ANALYZED BY EPA METHOD 8015B

BENZENE & MTBE ANALYZED BY EPA METHOD 8260B

REV

JMP

USA\57\Quarterly

STRATUS ENVIRONMENTAL, INC.

0 40 FT

HORZ. SCALE

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

GROUNDWATER ANALYTICAL SUMMARY
2nd QUARTER 2007

FIGURE
3

PROJECT NO.
2007-0057-01

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

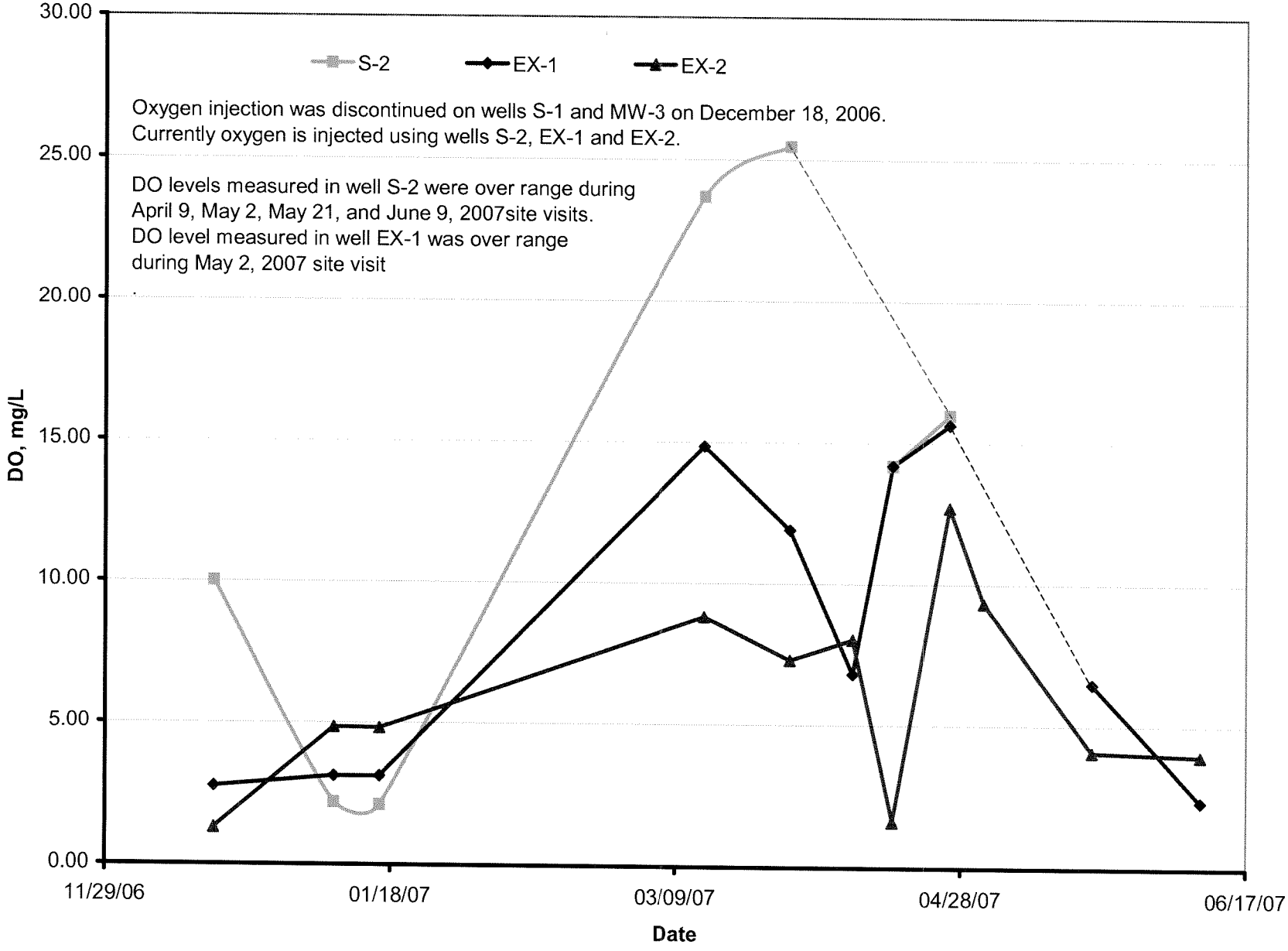


Figure 5
DO Variation with Time at Observation and Background Wells
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

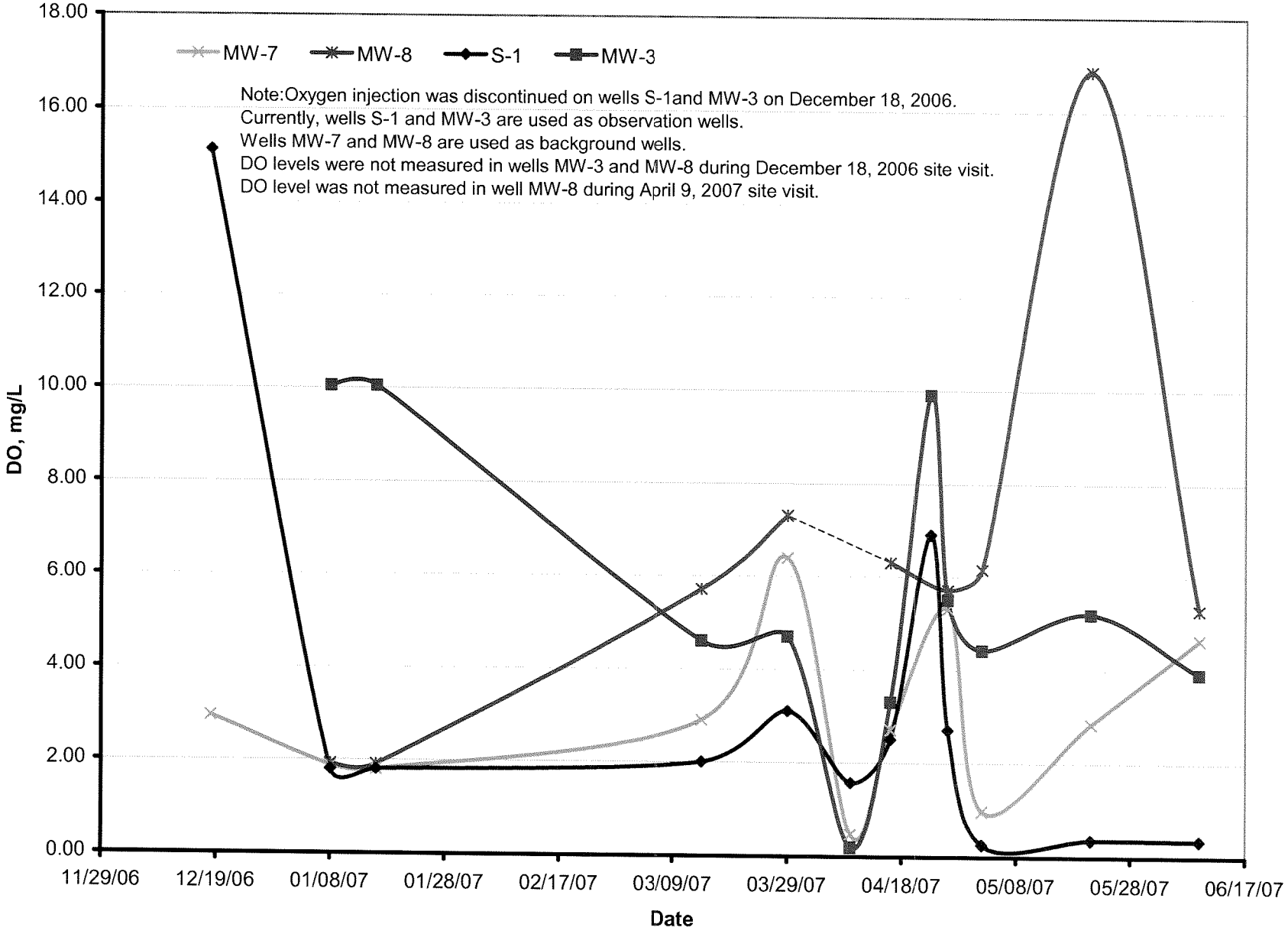


Figure 6
GRO, Benzene, MTBE, and Depth to Water Variation with Time at S-1
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

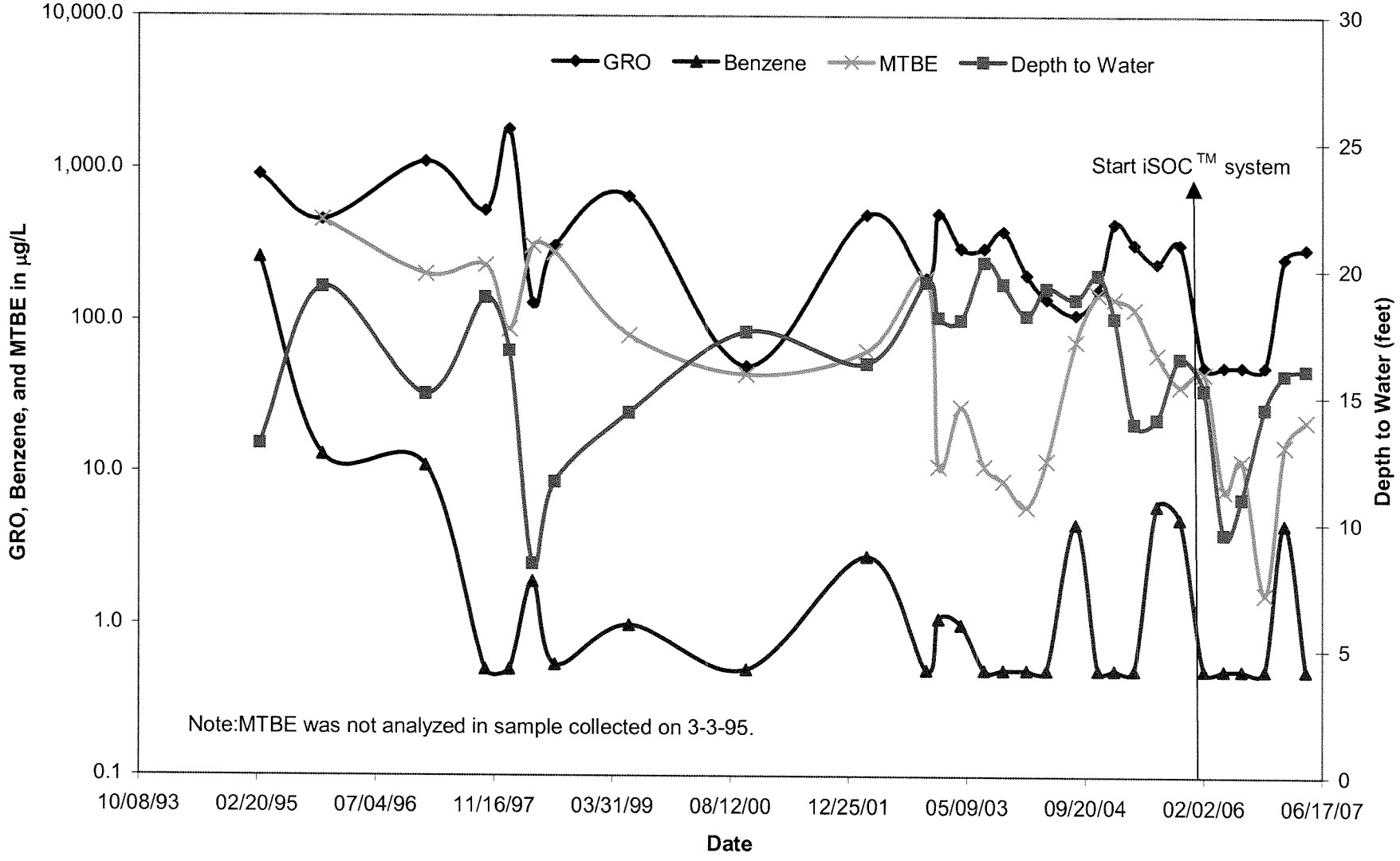


Figure 7
GRO, Benzene, MTBE, and Depth to Water Variation with Time at S-2
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

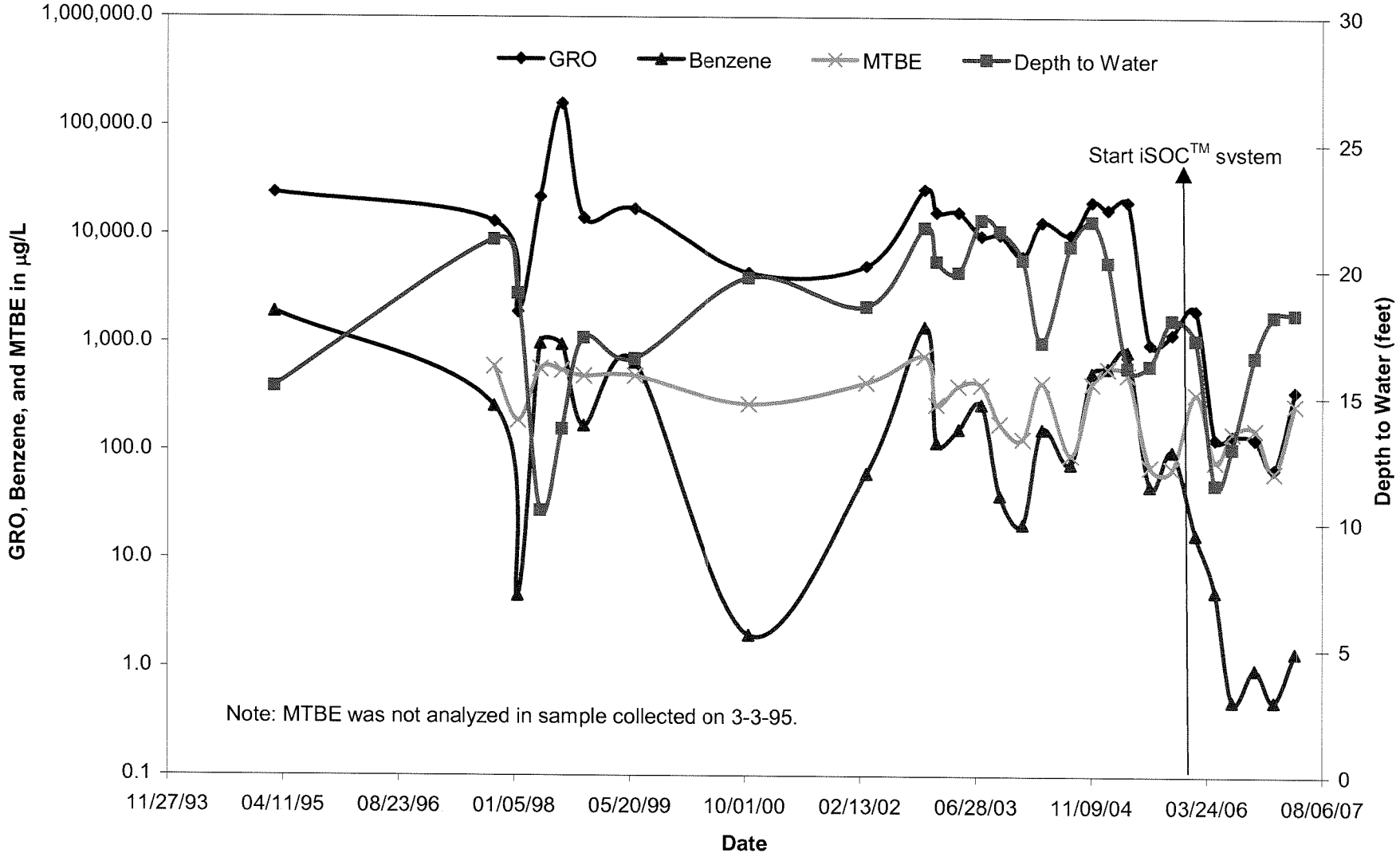


Figure 8
GRO, Benzene, MTBE, and Depth to Water Variation with Time at MW-3
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

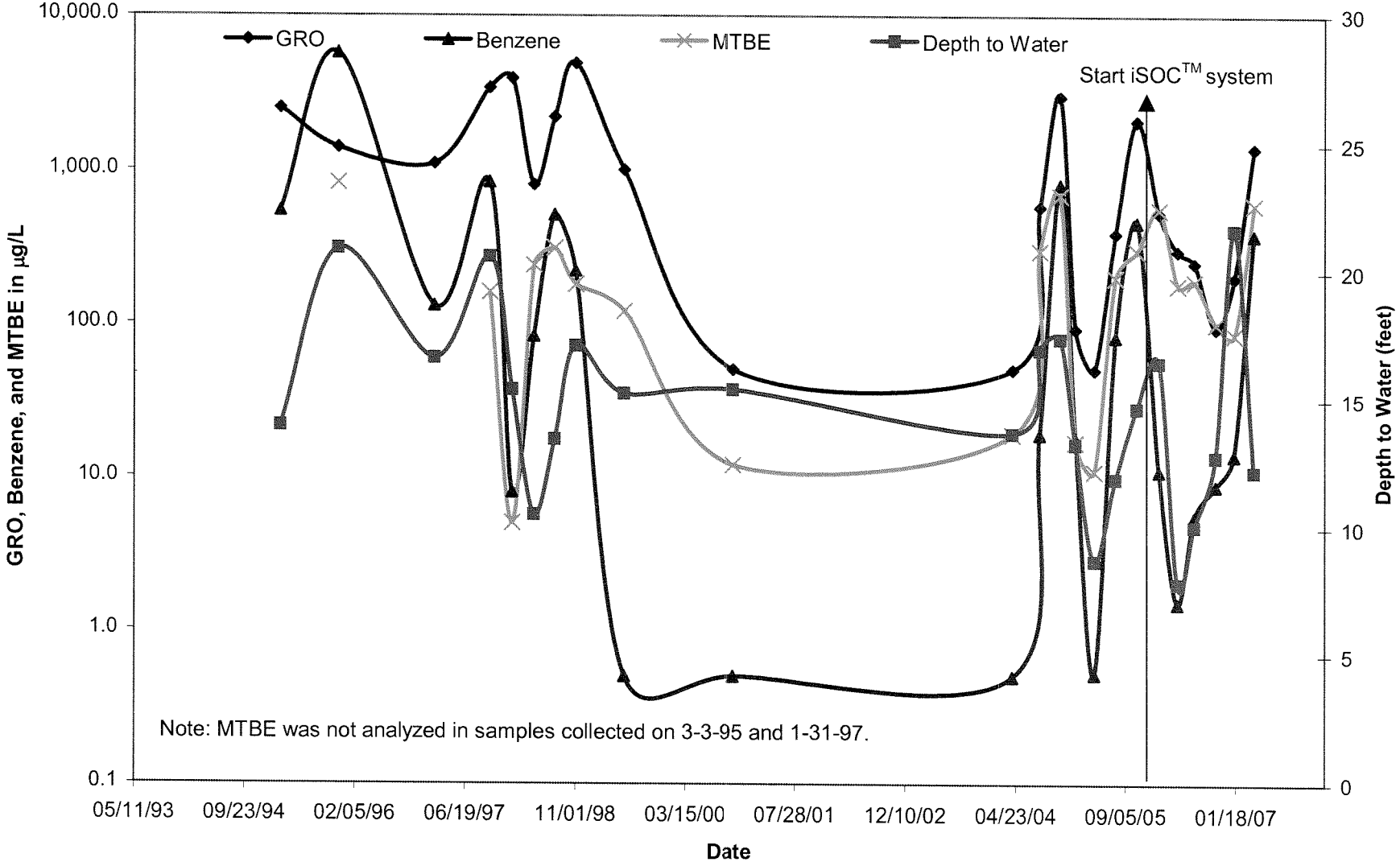


Figure 9
GRO, Benzene, MTBE, and Depth to Water Variation with Time at EX-1
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California

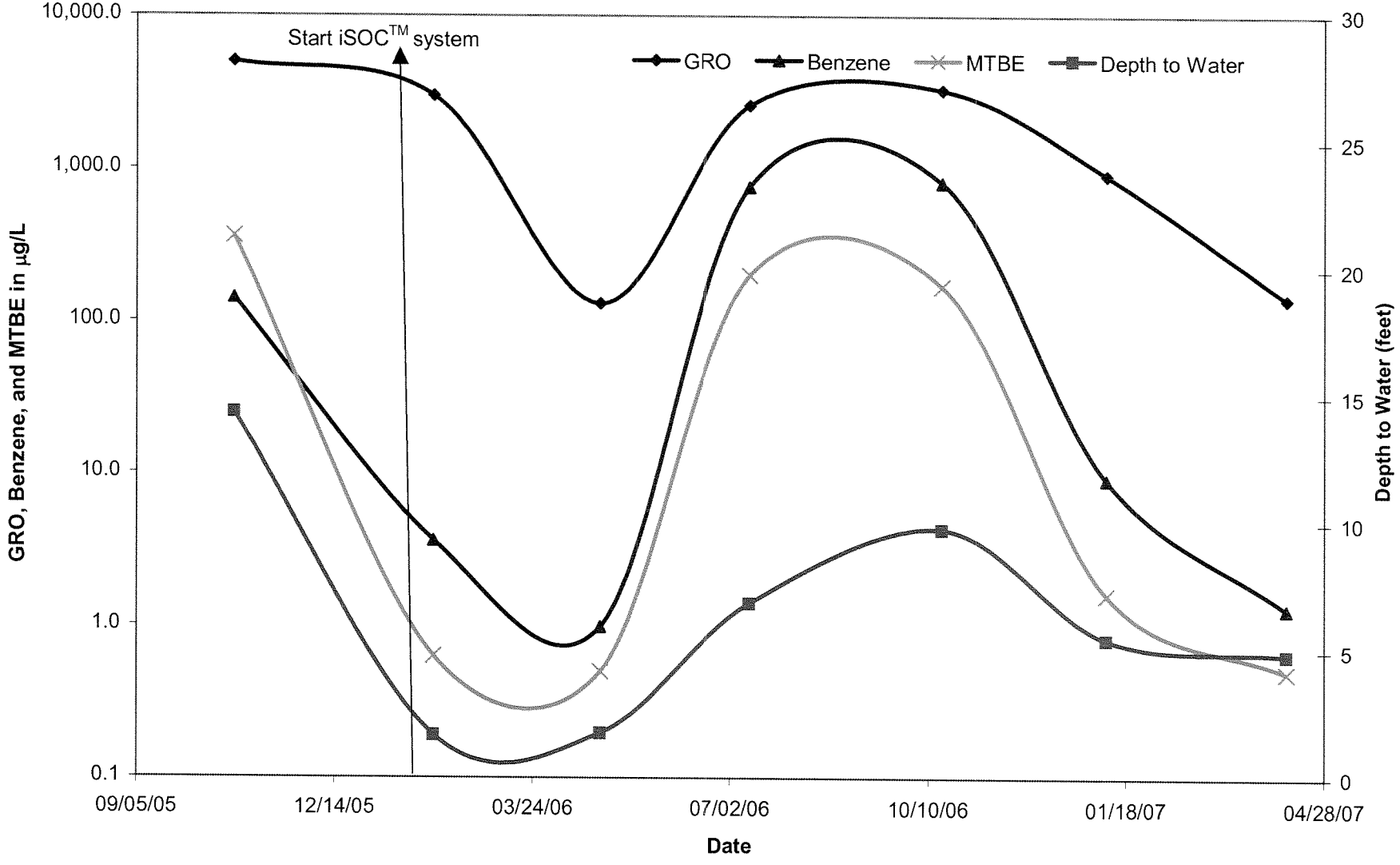
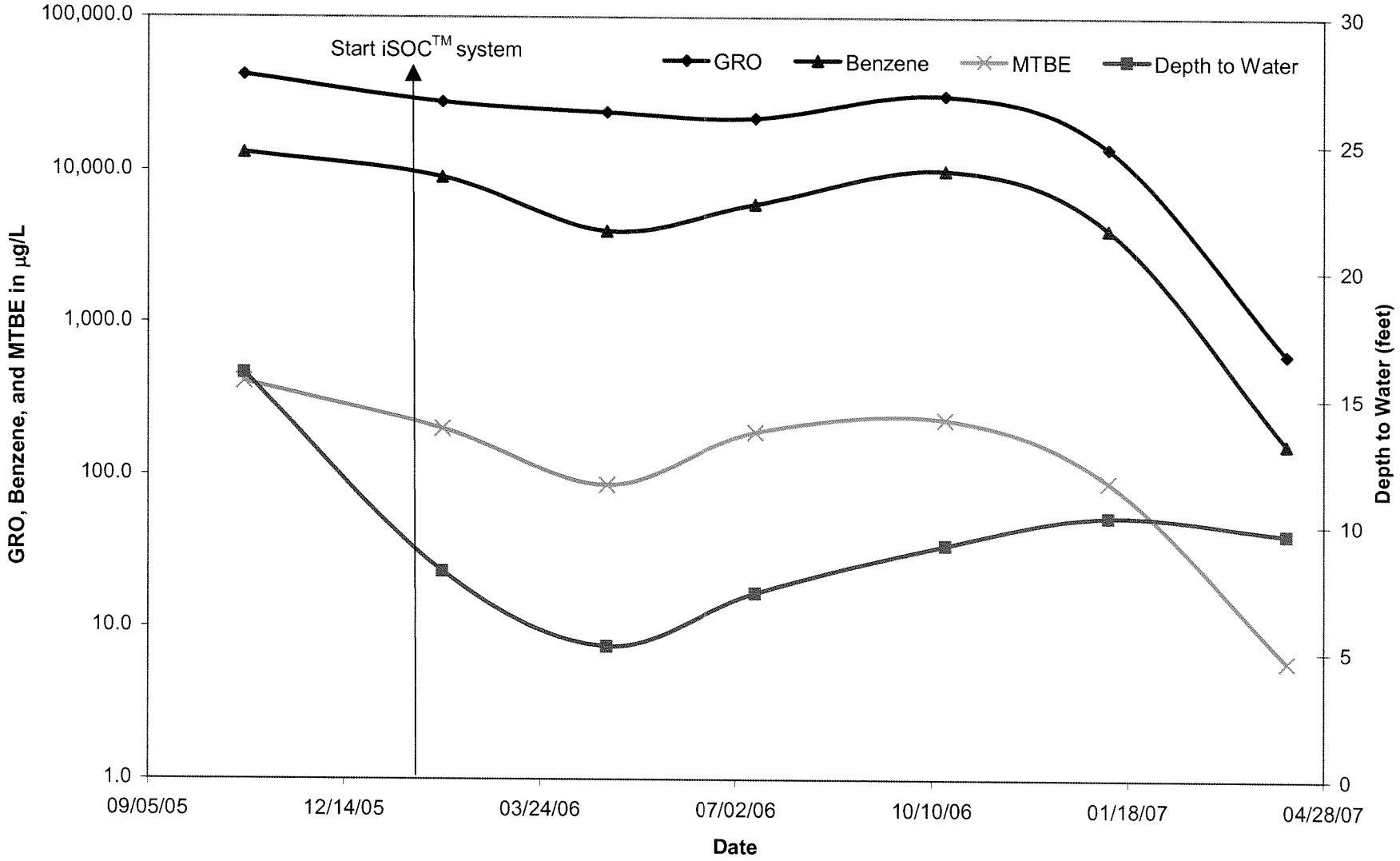


Figure 10
GRO, Benzene, MTBE, and Depth to Water Variation with Time at EX-2
Former USA Service Station No. 57
10700 MacArthur Boulevard
Oakland, California



APPENDIX A

FIELD DATA SHEETS

STRATUS
ENVIRONMENTAL, INC.

Site Address: 10700 MacArthur Blvd.
City Oakland, CA
Sampled By V. Zalutka & C. Wilkins

ORIGINAL

Site Number: USA 57
Project No. 2007-0057-01
Project PM Gowri
Date Sampled 04-09-07

Site Contact Phone No.

Water Level Data					Purge Volume Calculations					Well Purge Method				Sample Record			Field Data
Well ID	Time	Depth to water feet	Top of Screen feet	Total 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	0546	12.24		40.60	34.36	4	2	68.72	30	Dry @ 30gal		X		37.04	MW-3	0734	.19
MW-4	0530	8.52		38.30	29.78	4	2	59.56	60			X		32.77	MW-4	0640	.15
MW-5	COVERED																
MW-6	0525	16.20		18.30	2.1	4	2	4.20		X Low H_2O Sample only				16.20	MW-6	0607	3.75
MW-7	0521	19.27		41.50	26.23	4	2	52.46	52			X		21.57	MW-7	0930	.47
MW-8	0501	16.25		37.30	21.05	4	2	42.10	18 ← misread amount			X		24.61	MW-8	0825	N/M
S-1	0541	16.06		34.30	18.24	3	1	18.24 ←	14	Dry @ 14gal		X		18.78	S-1	0711	1.57
S-2	0544	18.29		43.5	25.21	3	1	25.21	10	Dry @ 10gal		X		24.63	S-2	0741	DO meter OVER (ERROR) read
Ex-1	0542	4.88		24	19.12	4	2	38.24	18	Dry @ 18gal		X		5.40	Ex-1	0919	6.81
Ex-2	0545	9.67		25.80	16.13	4	2	32.26	23	Dry @ 23gal		X		23.59	Ex-2	0841	8.03
Ex-3	0509	10.78		24.60	13.82	4	2	27.64	10	Dry @ 10gal		X		20.86	Ex-3	1017	.53
Ex-4	0516	12.43		24.50	12.07	4	2	24.14	11.5	Dry @ 11.5gal		X		18.55	Ex-4	0636	2.27

(A) Casing water Column
Depth wtr. Depth to Bottom

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

STRATUS
ENVIRONMENTAL, INC.

Site Address: 10700 McArthur Blvd
City Oakland
Sampled By CHILL

ORIGINAL

Site Number: USA 57
Project No. 2007-0057
Project PM Gavin
Date Sampled 4-23-07

Site Contact Phone No.

Water Level Data					Purge Volume Calculations					Well Purge Method				Sample Record			Field Data
Well ID	Time	Depth to water feet	Top of Screen feet	Total 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)
MW5	0551	11.90		37	25.1	4	2	50	20 ~~Drum~~			X		17.20	MW5	0620	4.1
MW3	0512	12.53								X				12.53	MW3	0517	9.9
S-1	0531	16.31								X				16.71	S-1	0535	6.9

(A) Casing water Column
Depth wtr. Depth to Bottom

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

[redacted]

STRATUS ENVIRONMENTAL, INC.

Site Address 10700 McArthur Blvd. Site Number USA 57
City Oakland CA Project No. 2007-0057-01
Site Sampled by G. Wilkins/V. Zalutka Project PM Cousins
Date Sampled 04-09-07

ORIGINAL

60

Well ID MW-3

purge start time 0705 No Odor ORP 118

	Temp C	pH	cond	gallons
time	18.8	7.80	993	0
time	19.5	7.19	1092	30
time	Dry @ 30 gal			
time				
purge stop time				

Well ID MW-4 0640

purge start time 0608 No Odor ORP 199

	Temp C	pH	cond	gallons
time	20.1	8.14	645	0
time	19.9	8.15	620	30
time	19.4	7.93	630	60
time				
pugre stop time	0635			

Well ID MW-5

purge start time unable to Find

	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time				

Well ID MW-6 0607

purge start time Bailer Odor

	Temp C	pH	cond	gallons
time	17.9	7.61	2.11M	0
time				
time				
time				
purge stop time	Sample Only		ORP -93	

100

Well ID MW-7 0930

purge start time 0847 No Odor ORP 200

	Temp C	pH	cond	gallons
time	19.1	8.27	765	0
time	19.4	8.11	695	26
time	18.7	7.92	585	52
time				
purge stop time	0913			

Well ID MW-8 95

purge start time 0801 No Odor ORP 218

	Temp C	pH	cond	gallons
time	19.0	7.74	1495	0
time	18.8	7.74	1450	10
time	18.0	7.60	1445	18
time				
purge stop time	0812			

Note: should have been 42 gal, mis-read amount to purge.

Well ID S-1 0711

purge start time 0654 No Odor

	Temp C	pH	cond	gallons
time	22.4	7.72	1076	0
time	20.9	7.47	1114	9
time	Dry @ 14 gal			
time	20.3	7.23	1220	14
purge stop time			ORP 0	

Well ID S-2 0741

purge start time 0728 No Odor

	Temp C	pH	cond	gallons
time	24.4	7.73	1079	0
time	Dry @ 10 gal			
time	19.9	7.72	1110	10
time				
purge stop time			ORP 173	

[redacted]

STRATUS
ENVIRONMENTAL, INC.

Site Address 10700 MacArthur Blvd. Site Number USA 57
City Oakland CA Project No. 2007-0057-01
Site Sampled by G. Wilkins / V. Zalutka Project PM Gowri
Date Sampled 04-09-07

ORIGINAL

Well ID EX-1 0919
purge start time 0800 No Odor

	Temp C	pH	cond	gallons
time	20.6	7.87	812	0
time	19.4	7.89	871	16
time	Dry @ 18gal			
time	18.7	7.72	821	18

purge stop time ORP 167

Well ID EX-2 0841
purge start time 0812 No Odor

	Temp C	pH	cond	gallons
time	20.8	7.28	1365	0
time	20.2	7.80	1393	13
time	Dry @ 23gal			
time	18.9	7.63	183	23

pugre stop time ORP 173

155 Well ID EX-3 1017
purge start time 0953 Odor ORP 93

	Temp C	pH	cond	gallons
time	19.4	7.90	813	0
time	Dry @ 10gal			
time	19.5	7.66	810	10
time				

purge stop time

Well ID EX-4 0636
purge start time 0624 Odor

	Temp C	pH	cond	gallons
time	19.2	8.08	720	0
time	20.8	7.69	731	11
time	Dry @ 11.5gal			
time	20.1	7.86	793	11.5

purge stop time ORP -83

Well ID
purge start time

	Temp C	pH	cond	gallons
time				
time				
time				
time				

purge stop time

Well ID
purge start time

	Temp C	pH	cond	gallons
time				
time				
time				
time				

purge stop time

Well ID
purge start time

	Temp C	pH	cond	gallons
time				
time				
time				
time				

purge stop time

Well ID
purge start time

	Temp C	pH	cond	gallons
time				
time				
time				
time				

purge stop time

[redacted]

STRATUS
ENVIRONMENTAL, INC.

Site Address 10700 McArthur Blvd
City Oakland
Site Sampled by CHILC

Site Number USA 57
Project No. 2007-0057
Project PM Gouvi
Date Sampled 42307

ORIGINAL

Well ID MW-3				North	Well ID S-1				North
purge start time					purge start time				
	ORP	Temp C	pH	cond	gallons	ORP	Temp C	pH	cond	gallons
time	161	17.9	7.5	687		time 121	17.1	7.3	968	8
time						time	18.8	8.24	810	20
time						time				
time						time				
purge stop time						pugre stop time				

Well ID MW-5				North	Well ID				
purge start time					purge start time				
	ORP	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time	105	17.9	8.23	530		time				
time						time				
time						time				
time						time				
purge stop time						purge stop time				

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

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

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

ORIGINAL

Date: 4-16-07
Onsite Time: 0600
Offsite Time: 0730

Technician: CHILL
Project Engineer: Kinnon
Weather Conditions: Clear
Ambient Temperature: 48

iSOC™ Panel:

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

Field Measurments (Monthly)

Well ID	Time	DTW	pH	DO	COND	ORP	Temp	
S-1		16.15	7.3	2.5	992	147	19.0	
S-2		15.34	7.5	14.18	962	220	19.0	
MW-3		12.38	7.2	3.3	2.55	203	18.5	
EX-1		4.37	7.7	14.17	703	202	18.0	
EX-2		9.96	7.4	1.6	1397	143	18.7	
EX-3		6.0	7.4	1.9	525	176	17.6	
MW-7		15.32	7.6	2.7	951	174	17.7	
MW-8		16.62	7.0	6.3	6.66	212	18.8	

Connected Cylinders

O_2 Cylinder	Pressure
1	2300
2	1400
3	2200
4	Full
5	Full
6	E

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: 4-20-07
Onsite Time: 0500
Offsite Time: 0700

Technician: CHILL
Project Engineer: Cooper
Weather Conditions: Rain
Ambient Temperature: 45

Install New Tubing To EX-2
Rebuild I-Sol compressor In EX-1

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: 2

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	2300
2	1450
3	2200
4	Full
5	8
6	8

Lab Parameters	Sampling Frequency	Sample Locations	Analytical Method
Bio-chemcal oxygen demand	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 405.1
Total Iron & Ferrous Iron	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	SM3500
Heterotrophic Plate Counts	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	SM 9215B
Total Organic Carbon	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 415.1
Total Dissolved Solids	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 160.1
Nitrates, nitrites and ammonia	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 350.3
Sulfide and Sulfates	Quarterly	S-1, MW-3, EX-3, MW-7, & MW-8	EPA 376.2 & EPA 300.0
Total Phosphorus & orthophosphates	Quarterly	S-1, MW-3, 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: 4-26-07
Onsite Time: 0530
Offsite Time: 0700

Technician: CHILL
Project Engineer: Grant
Weather Conditions: Clear
Ambient Temperature: 40

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:	2

Field Measurments (Monthly) MG

Well ID	Time	DTW	pH	DO	Cond	Temp	ORP	
S-1		16.24	7.2	2.7	953	19.1	102	
S-2		18.41	7.5	15.96	956	19.0	240	
MW-3		12.39	7.6	5.5	730	18.9	216	
EX-1		11.59	7.8	15.63	674	18.3	239	
EX-2		10.02	7.8	12.70	~~9.53~~	18.9	142	.1278
EX-3		9.65	7.4	2.3	723	18.1	165	
MW-7		15.40	7.6	5.3	911	19.0	214	
MW-8		16.57	7.1	5.7	667	19.1	242	

Connected Cylinders	
O_2 Cylinder	Pressure
1	2300
2	1400
3	2100
4	Full
5	
6	

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

IN ORIGINAL

Date: 050207
Onsite Time: 0600
Offsite Time: 0800

Technician: Vince Z
Project Engineer:
Weather Conditions: Rain
Ambient Temperature: 60's

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~~ 3
No. of Empty Cylinders: 2

Field Measurments (Monthly)

Well ID	Time	DTW	pH	DO	Cond.	ORP	Temp
S-1	0611	16.34	7.02	.26	1020	139	18.9
S-2	0627	18.50	7.29	OR	1009	283	18.8
MW-3	0756	12.35	7.68	4.42	1011	217	18.2
EX-1	0645	5.34	7.73	OR	734	309	17.9
EX-2	0638	10.09	7.34	9.32	1348	312	18.4
EX-3	0730	10.20	7.21	.83	1012	-3	18.1
MW-7	0707	15.49	7.49	.97	978	303	18.9
MW-8	0747	16.40	6.95	6.15	7.01m	195	18.3

* L to R

Connected Cylinders		
O_2 Cylinder		Pressure
* 3	1	2150 EX-1
* 2	2	~~2~~ 300 S-2
* 1	3	2300 ~~EX~~-3
	4	Full
	5	~~X~~
	6	~~X~~

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

Date: 5-21-07
Onsite Time: 0600
Offsite Time: 0725

Technician: Vince Zalutka
Project Engineer: ~~Gowri K.~~
Weather Conditions: High Fog/clear
Ambient Temperature: 60's

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: 2

Field Measurments (Monthly)

Well ID	Time	DTW	pH	DO	Temp	Cond	ORP	
S-1	0625	16.78	7.06	.36	18.6	923	40	
S-2	0633	18.97	7.23	Err.	18.3	901	155	
MW-3	0712	12.82	8.01	5.19	18.0	714	110	
EX-1	0641	5.74	7.38	6.49	18.5	673	208	
EX-2	0648	10.40	7.22	4.06	18.3	1238	207	
EX-3	0703	11.00	7.11	.42	18.3	987	13	
MW-7	0657	15.81	7.67	2.84	18.5	780	202	
MW-8	0708	16.85	6.91	5.49	18.1	519	174	

Rt. to Lt.

Connected Cylinders

O_2 Cylinder	Pressure	
1	1900	Ex-2
2	1350	S-2
3	2300	Ex-1
4	Full	
5	⊘	
6	⊘	

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

ORIGINAL

USA 57

~~ARCO FACILITY NO. 2030~~
~~7996 North El Dorado Street~~
~~Stockton, California~~
~~Air Sparge System~~

OAKLAND, CA

ORIGINAL

Date: 06-05-07 | Technician: Vince Zalutka
Onsite Time: 0530 | Weather Conditions: High Fog
Offsite Time: 0730 | Ambient Temperature: 60's

System Information

System Status Upon Arrival: Operational ☐ Non-Operational ☐

System Status Upon Departure: Operational ☐ Non-Operational ☐

Hour Meter Reading: ______

Air Injection Flow Upon Arrival, cfm / fpm ______ Pipe Diameter, inches ______

Air Injection Flow Upon Departure, cfm / fpm ______ Pipe Diameter, inches ______

Air Injection Pressure Upon Arrival, psi ______

Air Injection Pressure Upon Arrival, psi ______

Field Measurements

WELL	TIME	DTW	TEMP	PH	COND.	D/O	ORP
MW-7	0547	16.00	18.8	7.56	757	4.65	210
MW-3	0558	13.37	18.7	7.36	1104	3.92	209
MW-8	0606	17.41	17.9	6.88	5.56 m	5.28	222
Ex-3	0616	11.40	18.5	7.13	1190	.46	-13
S-1	0627	16.96	18.5	7.11	1002	.35	24
Ex-1	0636	6.18	19.0	7.42	714	2.33	72
S-2	0644	19.10	18.6	7.23	957	Or	160
Ex-2	0653	10.73	18.5	7.21	1346	3.93	171

Ex-2

KP	400	16000
psi	57	2400

S-1

KP	500	13300
Psi	73	1950

S-2

KP	435	9000
Psi	68	1300

3 hooked up (1 - Full inside) (2 Empty outside)

Signature: Vince Zalutka Date: 6-5-07

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

ORIGINAL

Date: 6-29-07
Onsite Time: 0500
Offsite Time: 0530

Technician: CHILL
Project Engineer: Kirby
Weather Conditions: Clear
Ambient Temperature: 49

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: 2

Field Measurments (Monthly)

Well ID	Time	DTW	pH	DO				
S-1								
S-2								
MW-3		NO						
EX-1								
EX-2		Readings						
EX-3								
MW-7								
MW-8								

Connected Cylinders

O_2 Cylinder	Pressure
1	2400
2	1250
3	200
4	Full
5	~~0~~
6	0

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

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/09/07

APR 30 2007

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 :	STR07040922-04A	Iron, Ferrous (+2)	ND	50 µg/L	04/09/07	04/10/07
		Iron, Total	430	300 µg/L	04/09/07	04/11/07
Client ID :	**MW-8**					
Lab ID :	STR07040922-05A	Iron, Ferrous (+2)	ND	50 µg/L	04/09/07	04/10/07
		Iron, Total	4,000	300 µg/L	04/09/07	04/11/07
Client ID :	**EX-1**					
Lab ID :	STR07040922-08A	Iron, Ferrous (+2)	ND	50 µg/L	04/09/07	04/10/07
		Iron, Total	930	300 µg/L	04/09/07	04/11/07
Client ID :	**EX-2**					
Lab ID :	STR07040922-09A	Iron, Ferrous (+2)	ND	50 µg/L	04/09/07	04/10/07
		Iron, Total	14,000	300 µg/L	04/09/07	04/11/07
Client ID :	**EX-3**					
Lab ID :	STR07040922-10A	Iron, Ferrous (+2)	420	50 µg/L	04/09/07	04/10/07
		Iron, Total	3,800	300 µg/L	04/09/07	04/11/07

ND = Not Detected
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Roger Scholl Randy Gardner Walter Hinchman

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4/17/07
Report Date

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Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/09/07

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 :	**MW-3**					
Lab ID :	STR07040922-01A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07
Client ID :	**MW-4**					
Lab ID :	STR07040922-02A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07
Client ID :	**MW-6**					
Lab ID :	STR07040922-03A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07
Client ID :	**MW-7**					
Lab ID :	STR07040922-04A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07
Client ID :	**MW-8**					
Lab ID :	STR07040922-05A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07
Client ID :	**S-1**					
Lab ID :	STR07040922-06A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07
Client ID :	**S-2**					
Lab ID :	STR07040922-07A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07
Client ID :	**EX-1**					
Lab ID :	STR07040922-08A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07
Client ID :	**EX-2**					
Lab ID :	STR07040922-09A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07
Client ID :	**EX-3**					
Lab ID :	STR07040922-10A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07
Client ID :	**EX-4**					
Lab ID :	STR07040922-11A	Methanol	ND	5,000 µg/L	04/09/07	04/10/07
		Ethanol	ND	5,000 µg/L	04/09/07	04/10/07

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Date Received : 04/09/07

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 :	STR07040922-04A	Nitrogen, Ammonia (As N)	ND	100 µg/L	04/09/07	04/12/07
Client ID :	**MW-8**					
Lab ID :	STR07040922-05A	Nitrogen, Ammonia (As N)	ND	100 µg/L	04/09/07	04/12/07
Client ID :	**EX-1**					
Lab ID :	STR07040922-08A	Nitrogen, Ammonia (As N)	ND	100 µg/L	04/09/07	04/12/07
Client ID :	**EX-2**					
Lab ID :	STR07040922-09A	Nitrogen, Ammonia (As N)	ND	100 µg/L	04/09/07	04/12/07
Client ID :	**EX-3**					
Lab ID :	STR07040922-10A	Nitrogen, Ammonia (As N)	ND	100 µg/L	04/09/07	04/12/07

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Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/09/07

Job#: 2007-0057-01/ USA 57

Anions by IC
EPA Method 300.0 / 9056

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-7**					
Lab ID :	STR07040922-04A	Sulfate (SO4)	53,000	500 µg/L	04/09/07	04/13/07
Client ID :	**MW-8**					
Lab ID :	STR07040922-05A	Sulfate (SO4)	83,000	500 µg/L	04/09/07	04/13/07
Client ID :	**EX-1**					
Lab ID :	STR07040922-08A	Sulfate (SO4)	87,000	500 µg/L	04/09/07	04/13/07
Client ID :	**EX-2**					
Lab ID :	STR07040922-09A	Sulfate (SO4)	11,000	500 µg/L	04/09/07	04/13/07
Client ID :	**EX-3**					
Lab ID :	STR07040922-10A	Sulfate (SO4)	69,000	500 µg/L	04/09/07	04/13/07

Reported in micrograms per Liter, per client request.

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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	04/09/07 09:30	04/10/07 13:40
Lab ID : STR07040922-04A	Nitrate (NO3) - N	2,400	250 µg/L	04/09/07 09:30	04/10/07 13:40
Client ID : **MW-8**	Nitrite (NO2) - N	ND	250 µg/L	04/09/07 08:25	04/10/07 14:35
Lab ID : STR07040922-05A	Nitrate (NO3) - N	2,500	250 µg/L	04/09/07 08:25	04/10/07 14:35
Client ID : **EX-1**	Nitrite (NO2) - N	ND	250 µg/L	04/09/07 09:19	04/10/07 14:54
Lab ID : STR07040922-08A	Nitrate (NO3) - N	1,400	250 µg/L	04/09/07 09:19	04/10/07 14:54
Client ID : **EX-2**	Nitrite (NO2) - N	ND	250 µg/L	04/09/07 08:41	04/10/07 15:12
Lab ID : STR07040922-09A	Nitrate (NO3) - N	ND	250 µg/L	04/09/07 08:41	04/10/07 15:12
Client ID : **EX-3**	Nitrite (NO2) - N	ND	250 µg/L	04/09/07 10:17	04/10/07 15:31
Lab ID : STR07040922-10A	Nitrate (NO3) - N	ND	250 µg/L	04/09/07 10:17	04/10/07 15:31

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

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Date Received : 04/09/07

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 :	STR07040922-04A	Total Orthophosphate	120	100 µg/L	04/09/07	04/10/07
Client ID :	**MW-8**					
Lab ID :	STR07040922-05A	Total Orthophosphate	120	100 µg/L	04/09/07	04/10/07
Client ID :	**EX-1**					
Lab ID :	STR07040922-08A	Total Orthophosphate	120	100 µg/L	04/09/07	04/10/07
Client ID :	**EX-2**					
Lab ID :	STR07040922-09A	Total Orthophosphate	ND	100 µg/L	04/09/07	04/10/07
Client ID :	**EX-3**					
Lab ID :	STR07040922-10A	Total Orthophosphate	ND	100 µg/L	04/09/07	04/10/07

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

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Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/09/07

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 :	STR07040922-04A	Phosphorus, Total (As P)	380	100 µg/L	04/09/07	04/12/07
Client ID :	**MW-8**					
Lab ID :	STR07040922-05A	Phosphorus, Total (As P)	120	100 µg/L	04/09/07	04/12/07
Client ID :	**EX-1**					
Lab ID :	STR07040922-08A	Phosphorus, Total (As P)	170	100 µg/L	04/09/07	04/12/07
Client ID :	**EX-2**					
Lab ID :	STR07040922-09A	Phosphorus, Total (As P)	180	100 µg/L	04/09/07	04/12/07
Client ID :	**EX-3**					
Lab ID :	STR07040922-10A	Phosphorus, Total (As P)	210	100 µg/L	04/09/07	04/12/07

Reported in micrograms per Liter, per client request.

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Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/09/07

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 :	STR07040922-04A	Solids, Total Dissolved (TDS)	630,000	10,000 µg/L	04/09/07	04/16/07
Client ID :	**MW-8**					
Lab ID :	STR07040922-05A	Solids, Total Dissolved (TDS)	5,700,000	25,000 µg/L	04/09/07	04/17/07
Client ID :	**EX-1**					
Lab ID :	STR07040922-08A	Solids, Total Dissolved (TDS)	480,000	10,000 µg/L	04/09/07	04/16/07
Client ID :	**EX-2**					
Lab ID :	STR07040922-09A	Solids, Total Dissolved (TDS)	790,000	10,000 µg/L	04/09/07	04/16/07
Client ID :	**EX-3**					
Lab ID :	STR07040922-10A	Solids, Total Dissolved (TDS)	800,000	10,000 µg/L	04/09/07	04/16/07

Reported in micrograms per Liter, per client request.

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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 :	STR07040922-04A	Total Organic Carbon	2,000	1,000 µg/L	04/09/07	04/10/07
Client ID :	**MW-8**					
Lab ID :	STR07040922-05A	Total Organic Carbon	1,800	1,000 µg/L	04/09/07	04/10/07
Client ID :	**EX-1**					
Lab ID :	STR07040922-08A	Total Organic Carbon	6,400	1,000 µg/L	04/09/07	04/10/07
Client ID :	**EX-2**					
Lab ID :	STR07040922-09A	Total Organic Carbon	7,000	1,000 µg/L	04/09/07	04/10/07
Client ID :	**EX-3**					
Lab ID :	STR07040922-10A	Total Organic Carbon	12,000	1,000 µg/L	04/09/07	04/10/07

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
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4/17/07
Report Date

Alpha Analytical, Inc.

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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 : 04/09/07

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 :	STR07040922-04A	Sulfide	ND	100 µg/L	04/09/07	04/13/07
Client ID :	**MW-8**					
Lab ID :	STR07040922-05A	Sulfide	ND	100 µg/L	04/09/07	04/13/07
Client ID :	**EX-1**					
Lab ID :	STR07040922-08A	Sulfide	ND	100 µg/L	04/09/07	04/13/07
Client ID :	**EX-2**					
Lab ID :	STR07040922-09A	Sulfide	ND	100 µg/L	04/09/07	04/13/07
Client ID :	**EX-3**					
Lab ID :	STR07040922-10A	Sulfide	630	100 µg/L	04/09/07	04/13/07

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

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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 : 04/09/07

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)	1,400		500 µg/L	04/09/07	04/11/07
MW-3	Tertiary Butyl Alcohol (TBA)	510		50 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	600		2.5 µg/L	04/09/07	04/11/07
STR07040922-01A	Di-isopropyl Ether (DIPE)	ND	V	5.0 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	5.0 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	67		5.0 µg/L	04/09/07	04/11/07
	Benzene	380		2.5 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND	V	5.0 µg/L	04/09/07	04/11/07
	Toluene	6.6		2.5 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND	V	20 µg/L	04/09/07	04/11/07
	Ethylbenzene	22		2.5 µg/L	04/09/07	04/11/07
	m,p-Xylene	8.1		2.5 µg/L	04/09/07	04/11/07
	o-Xylene	4.4		2.5 µg/L	04/09/07	04/11/07
Client ID :	TPH-P (GRO)	ND		50 µg/L	04/09/07	04/11/07
MW-4	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	04/09/07	04/11/07
STR07040922-02A	Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	ND		1.0 µg/L	04/09/07	04/11/07
	Benzene	ND		0.50 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	04/09/07	04/11/07
	Toluene	ND		0.50 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND		2.0 µg/L	04/09/07	04/11/07
	Ethylbenzene	ND		0.50 µg/L	04/09/07	04/11/07
	m,p-Xylene	ND		0.50 µg/L	04/09/07	04/11/07
	o-Xylene	ND		0.50 µg/L	04/09/07	04/11/07
Client ID :	TPH-P (GRO)	ND		50 µg/L	04/09/07	04/11/07
MW-6	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	04/09/07	04/11/07
STR07040922-03A	Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	ND		1.0 µg/L	04/09/07	04/11/07
	Benzene	ND		0.50 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	04/09/07	04/11/07
	Toluene	ND		0.50 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND		2.0 µg/L	04/09/07	04/11/07
	Ethylbenzene	ND		0.50 µg/L	04/09/07	04/11/07
	m,p-Xylene	ND		0.50 µg/L	04/09/07	04/11/07
	o-Xylene	ND		0.50 µg/L	04/09/07	04/11/07

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Client ID :	TPH-P (GRO)	ND	50 µg/L	04/09/07	04/11/07
MW-7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	0.54	0.50 µg/L	04/09/07	04/11/07
STR07040922-04A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	ND	1.0 µg/L	04/09/07	04/11/07
	Benzene	ND	0.50 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	04/09/07	04/11/07
	Toluene	ND	0.50 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	04/09/07	04/11/07
	Ethylbenzene	ND	0.50 µg/L	04/09/07	04/11/07
	m,p-Xylene	ND	0.50 µg/L	04/09/07	04/11/07
	o-Xylene	ND	0.50 µg/L	04/09/07	04/11/07
Client ID :	TPH-P (GRO)	ND	50 µg/L	04/09/07	04/11/07
MW-8	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	04/09/07	04/11/07
STR07040922-05A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	ND	1.0 µg/L	04/09/07	04/11/07
	Benzene	ND	0.50 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	04/09/07	04/11/07
	Toluene	ND	0.50 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	04/09/07	04/11/07
	Ethylbenzene	ND	0.50 µg/L	04/09/07	04/11/07
	m,p-Xylene	ND	0.50 µg/L	04/09/07	04/11/07
	o-Xylene	ND	0.50 µg/L	04/09/07	04/11/07
Client ID :	TPH-P (GRO)	300	50 µg/L	04/09/07	04/11/07
S-1	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	22	0.50 µg/L	04/09/07	04/11/07
STR07040922-06A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	ND	1.0 µg/L	04/09/07	04/11/07
	Benzene	ND	0.50 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	04/09/07	04/11/07
	Toluene	ND	0.50 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	04/09/07	04/11/07
	Ethylbenzene	ND	0.50 µg/L	04/09/07	04/11/07
	m,p-Xylene	ND	0.50 µg/L	04/09/07	04/11/07
	o-Xylene	ND	0.50 µg/L	04/09/07	04/11/07
Client ID :	TPH-P (GRO)	360	50 µg/L	04/09/07	04/11/07
S-2	Tertiary Butyl Alcohol (TBA)	32	10 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	270	0.50 µg/L	04/09/07	04/11/07
STR07040922-07A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	1.3	1.0 µg/L	04/09/07	04/11/07
	Benzene	1.4	0.50 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	04/09/07	04/11/07
	Toluene	1.5	0.50 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	04/09/07	04/11/07
	Ethylbenzene	2.2	0.50 µg/L	04/09/07	04/11/07
	m,p-Xylene	6.3	0.50 µg/L	04/09/07	04/11/07
	o-Xylene	3.5	0.50 µg/L	04/09/07	04/11/07

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Client ID :	TPH-P (GRO)	140		50 µg/L	04/09/07	04/11/07
EX-1	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	04/09/07	04/11/07
STR07040922-08A	Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	ND		1.0 µg/L	04/09/07	04/11/07
	Benzene	1.3		0.50 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	04/09/07	04/11/07
	Toluene	ND		0.50 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND		2.0 µg/L	04/09/07	04/11/07
	Ethylbenzene	1.2		0.50 µg/L	04/09/07	04/11/07
	m,p-Xylene	0.93		0.50 µg/L	04/09/07	04/11/07
	o-Xylene	ND		0.50 µg/L	04/09/07	04/11/07
Client ID :	TPH-P (GRO)	620		200 µg/L	04/09/07	04/11/07
EX-2	Tertiary Butyl Alcohol (TBA)	ND	V	20 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	6.0		1.0 µg/L	04/09/07	04/11/07
STR07040922-09A	Di-isopropyl Ether (DIPE)	ND	V	2.0 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	2.0 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	ND	V	2.0 µg/L	04/09/07	04/11/07
	Benzene	160		1.0 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND	V	2.0 µg/L	04/09/07	04/11/07
	Toluene	17		1.0 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND	V	8.0 µg/L	04/09/07	04/11/07
	Ethylbenzene	24		1.0 µg/L	04/09/07	04/11/07
	m,p-Xylene	42		1.0 µg/L	04/09/07	04/11/07
	o-Xylene	16		1.0 µg/L	04/09/07	04/11/07
Client ID :	TPH-P (GRO)	700		50 µg/L	04/09/07	04/11/07
EX-3	Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	04/09/07	04/11/07
STR07040922-10A	Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	ND		1.0 µg/L	04/09/07	04/11/07
	Benzene	8.9		0.50 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	04/09/07	04/11/07
	Toluene	ND		0.50 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND		2.0 µg/L	04/09/07	04/11/07
	Ethylbenzene	11		0.50 µg/L	04/09/07	04/11/07
	m,p-Xylene	3.9		0.50 µg/L	04/09/07	04/11/07
	o-Xylene	2.6		0.50 µg/L	04/09/07	04/11/07
Client ID :	TPH-P (GRO)	4,600		1,000 µg/L	04/09/07	04/11/07
EX-4	Tertiary Butyl Alcohol (TBA)	ND	V	100 µg/L	04/09/07	04/11/07
Lab ID :	Methyl tert-butyl ether (MTBE)	6.5		5.0 µg/L	04/09/07	04/11/07
STR07040922-11A	Di-isopropyl Ether (DIPE)	ND	V	10 µg/L	04/09/07	04/11/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	V	10 µg/L	04/09/07	04/11/07
	1,2-Dichloroethane	ND	V	10 µg/L	04/09/07	04/11/07
	Benzene	730		5.0 µg/L	04/09/07	04/11/07
	Tertiary Amyl Methyl Ether (TAME)	ND	V	10 µg/L	04/09/07	04/11/07
	Toluene	78		5.0 µg/L	04/09/07	04/11/07
	1,2-Dibromoethane (EDB)	ND	V	40 µg/L	04/09/07	04/11/07
	Ethylbenzene	83		5.0 µg/L	04/09/07	04/11/07
	m,p-Xylene	240		5.0 µg/L	04/09/07	04/11/07
	o-Xylene	170		5.0 µg/L	04/09/07	04/11/07

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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.

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4/17/07

Report Date

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VOC Sample Preservation Report

Work Order: STR07040922 **Project:** 2007-0057-01/ USA 57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
07040922-01A	MW-3	Aqueous	2
07040922-02A	MW-4	Aqueous	2
07040922-03A	MW-6	Aqueous	2
07040922-04A	MW-7	Aqueous	2
07040922-05A	MW-8	Aqueous	2
07040922-06A	S-1	Aqueous	2
07040922-07A	S-2	Aqueous	2
07040922-08A	EX-1	Aqueous	2
07040922-09A	EX-2	Aqueous	2
07040922-10A	EX-3	Aqueous	2
07040922-11A	EX-4	Aqueous	2

4/17/07

Report Date

Alpha Analytical, Inc.

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Date: *17-Apr-07*

QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: **15** Batch ID: **17221A** Analysis Date: **04/10/2007 12:44**

Sample ID: **MB-17221** Units : **µg/L** Run ID: **IC_2_070410A** Prep Date: **04/10/2007**

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: **17221A** Analysis Date: **04/10/2007 13:03**

Sample ID: **LFB-17221** Units : **µg/L** Run ID: **IC_2_070410A** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	458	250	500		92	90	110			
Nitrate (NO3) - N	506	250	500		101	90	110			

Sample Matrix Spike

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

File ID: **19** Batch ID: **17221A** Analysis Date: **04/10/2007 13:58**

Sample ID: **07040922-04ALFM** Units : **µg/L** Run ID: **IC_2_070410A** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	9470	250	10000	0	95	80	120			
Nitrate (NO3) - N	12900	250	10000	2412	105	80	120			

Sample Matrix Spike Duplicate

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

File ID: **20** Batch ID: **17221A** Analysis Date: **04/10/2007 14:17**

Sample ID: **07040922-04ALFMD** Units : **µg/L** Run ID: **IC_2_070410A** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	9310	250	10000	0	93	80	120	9468	1.6(10)	
Nitrate (NO3) - N	12900	250	10000	2412	105	80	120	12950	0.2(10)	

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.

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Date: *17-Apr-07*

QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: **13** Batch ID: **17245B** Analysis Date: **04/13/2007 17:12**

Sample ID: **MB-17245** Units : **µg/L** Run ID: **IC_1_070413A** Prep Date: **04/13/2007**

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: **14** Batch ID: **17245B** Analysis Date: **04/13/2007 17:30**

Sample ID: **LFB-17245** Units : **µg/L** Run ID: **IC_1_070413A** Prep Date: **04/13/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	10500	500	10000		105	90	110			

Sample Matrix Spike

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

File ID: **22** Batch ID: **17245B** Analysis Date: **04/13/2007 19:58**

Sample ID: **07041354-05ALFM** Units : **µg/L** Run ID: **IC_1_070413A** Prep Date: **04/13/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	52400	500	10000	40870	115	80	120			

Sample Matrix Spike Duplicate

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

File ID: **23** Batch ID: **17245B** Analysis Date: **04/13/2007 20:17**

Sample ID: **07041354-05ALFMD** Units : **µg/L** Run ID: **IC_1_070413A** Prep Date: **04/13/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	52800	500	10000	40870	119	80	120	52400	0.7(10)	

Comments:

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QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: Batch ID: **W070410FER** Analysis Date: **04/10/2007 00:00**

Sample ID: **MBLK-W070410FER** Units : **µg/L** Run ID: **WETLAB_070410D** Prep Date: **04/10/2007**

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: **W070410FER** Analysis Date: **04/10/2007 00:00**

Sample ID: **LCS-W070410FER** Units : **µg/L** Run ID: **WETLAB_070410D** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1370	50	1500		91	85	115			

Sample Matrix Spike

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

File ID: Batch ID: **W070410FER** Analysis Date: **04/10/2007 00:00**

Sample ID: **07040922-04AMS** Units : **µg/L** Run ID: **WETLAB_070410D** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1380	50	1500	0	92	70	130			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070410FER** Analysis Date: **04/10/2007 00:00**

Sample ID: **07040922-04AMSD** Units : **µg/L** Run ID: **WETLAB_070410D** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1380	50	1500	0	92	70	130	1376	0.2(20)	

Comments:

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Date: *13-Apr-07*

QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: Batch ID: **W070411FET** Analysis Date: **04/11/2007 00:00**

Sample ID: **MBLK-W070411FET** Units : **µg/L** Run ID: **WETLAB_070411A** Prep Date: **04/11/2007**

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: **W070411FET** Analysis Date: **04/11/2007 00:00**

Sample ID: **LCS-W070411FET** Units : **µg/L** Run ID: **WETLAB_070411A** Prep Date: **04/11/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	8860	300	10000		89	85	115			

Sample Matrix Spike

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

File ID: Batch ID: **W070411FET** Analysis Date: **04/11/2007 00:00**

Sample ID: **07040304-01AMS** Units : **µg/L** Run ID: **WETLAB_070411A** Prep Date: **04/11/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	34500	300	10000	24370	101	70	130			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070411FET** Analysis Date: **04/11/2007 00:00**

Sample ID: **07040304-01AMSD** Units : **µg/L** Run ID: **WETLAB_070411A** Prep Date: **04/11/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	35800	300	10000	24370	114	70	130	34450	3.8(20)	

Comments:

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QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: Batch ID: **TOC041007** Analysis Date: **04/10/2007 15:21**

Sample ID: **MBLK-TOC041007** Units : **µg/L** Run ID: **TOC_070410A** Prep Date: **04/10/2007**

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: **TOC041007** Analysis Date: **04/10/2007 14:59**

Sample ID: **LCS-TOC041007** Units : **µg/L** Run ID: **TOC_070410A** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	4660	1000	5000		93	74	126			

Sample Matrix Spike

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

File ID: Batch ID: **TOC041007** Analysis Date: **04/10/2007 21:03**

Sample ID: **07040641-06AMS** Units : **µg/L** Run ID: **TOC_070410A** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	5230	1000	5000	0	105	56	137			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **TOC041007** Analysis Date: **04/10/2007 21:27**

Sample ID: **07040641-06AMSD** Units : **µg/L** Run ID: **TOC_070410A** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	4790	1000	5000	0	96	56	137	5231	8.8(20)	

Comments:

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QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: Batch ID: **W070412AMM** Analysis Date: **04/12/2007 00:00**

Sample ID: **MBLK-W070412AMM** Units : **µg/L** Run ID: **WETLAB_070412F** Prep Date: **04/12/2007**

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: **W070412AMM** Analysis Date: **04/12/2007 00:00**

Sample ID: **LCS-W070412AMM** Units : **µg/L** Run ID: **WETLAB_070412F** Prep Date: **04/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	4960	100	5000		99	70	130			

Sample Matrix Spike

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

File ID: Batch ID: **W070412AMM** Analysis Date: **04/12/2007 00:00**

Sample ID: **07040922-04AMS** Units : **µg/L** Run ID: **WETLAB_070412F** Prep Date: **04/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	4960	100	5000	0	99	65	138			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070412AMM** Analysis Date: **04/12/2007 00:00**

Sample ID: **07040922-04AMSD** Units : **µg/L** Run ID: **WETLAB_070412F** Prep Date: **04/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	4740	100	5000	0	95	65	138	4960	4.5(20)	

Comments:

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QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: Batch ID: **W070410OPHOS** Analysis Date: **04/10/2007 00:00**

Sample ID: **MBLK-W070410OPHOS** Units : **µg/L** Run ID: **WETLAB_070410E** Prep Date: **04/10/2007**

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: **W070410OPHOS** Analysis Date: **04/10/2007 00:00**

Sample ID: **LCS-W070410OPHOS** Units : **µg/L** Run ID: **WETLAB_070410E** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate	1070	100	1000		107	80	116			

Sample Matrix Spike

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

File ID: Batch ID: **W070410OPHOS** Analysis Date: **04/10/2007 00:00**

Sample ID: **07040922-04AMS** Units : **µg/L** Run ID: **WETLAB_070410E** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate	1120	100	1000	115	100	80	116			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070410OPHOS** Analysis Date: **04/10/2007 00:00**

Sample ID: **07040922-04AMSD** Units : **µg/L** Run ID: **WETLAB_070410E** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate	1130	100	1000	115	101	80	116	1116	0.9(20)	

Comments:

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Date: *16-Apr-07*

QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: Batch ID: **W070412TPHOS** Analysis Date: **04/12/2007 00:00**

Sample ID: **MBLK-W070412TPHOS** Units : **µg/L** Run ID: **WETLAB_070412D** Prep Date: **04/12/2007**

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: **W070412TPHOS** Analysis Date: **04/12/2007 00:00**

Sample ID: **LCS-W070412TPHOS** Units : **µg/L** Run ID: **WETLAB_070412D** Prep Date: **04/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Phosphorus, Total (As P)	1040	100	1000		104	80	118			

Sample Matrix Spike

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

File ID: Batch ID: **W070412TPHOS** Analysis Date: **04/12/2007 00:00**

Sample ID: **07040922-04AMS** Units : **µg/L** Run ID: **WETLAB_070412D** Prep Date: **04/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Phosphorus, Total (As P)	1310	100	1000	382	92	80	118			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070412TPHOS** Analysis Date: **04/12/2007 00:00**

Sample ID: **07040922-04AMSD** Units : **µg/L** Run ID: **WETLAB_070412D** Prep Date: **04/12/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Phosphorus, Total (As P)	1150	100	1000	382	77	80	118	1305	12.6(20)	M3

Comments:

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M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.

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QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: Batch ID: **W070412TDS** Analysis Date: **04/17/2007 00:00**

Sample ID: **MBLK-W070412TDS** Units : **µg/L** Run ID: **WETLAB_070417A** Prep Date: **04/17/2007**

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: **W070412TDS** Analysis Date: **04/17/2007 00:00**

Sample ID: **LCS-W070412TDS** Units : **µg/L** Run ID: **WETLAB_070417A** Prep Date: **04/17/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Dissolved (TDS)	198000	10000	200000		99	80	120			

Comments:

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Date: *17-Apr-07*

QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: Batch ID: **W070413SULF** Analysis Date: **04/13/2007 00:00**

Sample ID: **MBLK-W070413SULF** Units : **µg/L** Run ID: **WETLAB_070413C** Prep Date: **04/13/2007**

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: **W070413SULF** Analysis Date: **04/13/2007 00:00**

Sample ID: **LCS-W070413SULF** Units : **µg/L** Run ID: **WETLAB_070413C** Prep Date: **04/13/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	943	100	1000		94	75	130			

Sample Matrix Spike

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

File ID: Batch ID: **W070413SULF** Analysis Date: **04/13/2007 00:00**

Sample ID: **07040922-04AMS** Units : **µg/L** Run ID: **WETLAB_070413C** Prep Date: **04/13/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1060	100	1000	100	96	65	150			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070413SULF** Analysis Date: **04/13/2007 00:00**

Sample ID: **07040922-04AMSD** Units : **µg/L** Run ID: **WETLAB_070413C** Prep Date: **04/13/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1100	100	1000	100	100	65	150	1060	3.7(20)	

Comments:

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QC Summary Report

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Method Blank

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

File ID: **C:\HPCHEM\MS11\DATA\070410\07041003.D** Batch ID: **17218** Analysis Date: **04/10/2007 10:14**

Sample ID: **MBLK-17218** Units : **µg/L** Run ID: **MSD_11_070410A** Prep Date: **04/10/2007**

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	70	130			

Laboratory Control Spike

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

File ID: **C:\HPCHEM\MS11\DATA\070410\07041004.D** Batch ID: **17218** Analysis Date: **04/10/2007 10:34**

Sample ID: **LCS-17218** Units : **µg/L** Run ID: **MSD_11_070410A** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	223	50	250		89	61	139			
Ethanol	205	5	250		82	68	132			
Surr: Hexafluoro-2-propanol	533		500		107	70	130			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS11\DATA\070410\07041006.D** Batch ID: **17218** Analysis Date: **04/10/2007 11:14**

Sample ID: **07040906-02AMS** Units : **µg/L** Run ID: **MSD_11_070410A** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	233	50	250	0	93	58	142			
Ethanol	220	5	250	0	88	67	133			
Surr: Hexafluoro-2-propanol	508		500		102	70	130			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS11\DATA\070410\07041007.D** Batch ID: **17218** Analysis Date: **04/10/2007 11:34**

Sample ID: **07040906-02AMSD** Units : **µg/L** Run ID: **MSD_11_070410A** Prep Date: **04/10/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methanol	234	50	250	0	94	58	142	233	0.6(20)	
Ethanol	225	5	250	0	90	67	133	219.8	2.4(20)	
Surr: Hexafluoro-2-propanol	487		500		97	70	130			

Comments:

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Date: 17-Apr-07

QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: **D:\HPCHEM\MS09\DATA\070411\07041104.D** Batch ID: **MS09W0411B** Analysis Date: **04/11/2007 10:38**

Sample ID: **MBLK MS09W0411B** Units : **µg/L** Run ID: **MSD_09_070411A** Prep Date: **04/11/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.3		10		103	75	128			
Surr: Toluene-d8	10.1		10		101	80	120			
Surr: 4-Bromofluorobenzene	9.55		10		96	80	120			

Laboratory Control Spike

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

File ID: **D:\HPCHEM\MS09\DATA\070411\07041103.D** Batch ID: **MS09W0411B** Analysis Date: **04/11/2007 10:15**

Sample ID: **GLCS MS09W0411B** Units : **µg/L** Run ID: **MSD_09_070411A** Prep Date: **04/11/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	364	50	400		91	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	75	128			
Surr: Toluene-d8	10.2		10		102	80	120			
Surr: 4-Bromofluorobenzene	9.76		10		98	80	120			

Sample Matrix Spike

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

File ID: **D:\HPCHEM\MS09\DATA\070411\07041108.D** Batch ID: **MS09W0411B** Analysis Date: **04/11/2007 12:11**

Sample ID: **07040906-01AGS** Units : **µg/L** Run ID: **MSD_09_070411A** Prep Date: **04/11/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2080	250	2000	0	104	60	131			
Surr: 1,2-Dichloroethane-d4	49.2		50		98	75	128			
Surr: Toluene-d8	51.8		50		104	80	120			
Surr: 4-Bromofluorobenzene	50.2		50		100	80	120			

Sample Matrix Spike Duplicate

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

File ID: **D:\HPCHEM\MS09\DATA\070411\07041109.D** Batch ID: **MS09W0411B** Analysis Date: **04/11/2007 12:35**

Sample ID: **07040906-01AGSD** Units : **µg/L** Run ID: **MSD_09_070411A** Prep Date: **04/11/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2030	250	2000	0	102	60	131	2084	2.5(20)	
Surr: 1,2-Dichloroethane-d4	50.8		50		102	75	128			
Surr: Toluene-d8	51.4		50		103	80	120			
Surr: 4-Bromofluorobenzene	49.4		50		99	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: 17-Apr-07

QC Summary Report

Work Order: 07040922

Method Blank

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

File ID: **D:\HPCHEM\MS09\DATA\070411\07041104.D** Batch ID: **MS09W0411A** Analysis Date: **04/11/2007 10:38**

Sample ID: **MBLK MS09W0411A** Units : **µg/L** Run ID: **MSD_09_070411A** Prep Date: **04/11/2007**

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	10.3		10		103	75	128			
Surr: Toluene-d8	10.1		10		101	80	120			
Surr: 4-Bromofluorobenzene	9.55		10		96	80	120			

Laboratory Control Spike

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

File ID: **D:\HPCHEM\MS09\DATA\070411\07041102.D** Batch ID: **MS09W0411A** Analysis Date: **04/11/2007 09:51**

Sample ID: **LCS MS09W0411A** Units : **µg/L** Run ID: **MSD_09_070411A** Prep Date: **04/11/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.1	1	10		101	80	120			
Methyl tert-butyl ether (MTBE)	10.1	0.5	10		101	70	130			
Benzene	9.62	0.5	10		96	70	130			
Trichloroethene	10.3	1	10		103	70	130			
Toluene	9.98	0.5	10		99.8	80	120			
Chlorobenzene	10.4	1	10		104	70	130			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	11.2	0.5	10		112	70	130			
o-Xylene	11.1	0.5	10		111	70	130			
Xylenes, Total	22.3	0.5	20		111	70	130			
Surr: 1,2-Dichloroethane-d4	9.94		10		99	75	128			
Surr: Toluene-d8	10.1		10		101	80	120			
Surr: 4-Bromofluorobenzene	9.49		10		95	80	120			

Sample Matrix Spike

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

File ID: **D:\HPCHEM\MS09\DATA\070411\07041106.D** Batch ID: **MS09W0411A** Analysis Date: **04/11/2007 11:25**

Sample ID: **07040906-01AMS** Units : **µg/L** Run ID: **MSD_09_070411A** Prep Date: **04/11/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	47.5	2.5	50	0	95	66	132			
Methyl tert-butyl ether (MTBE)	48.4	1.3	50	0	97	62	139			
Benzene	45.6	1.3	50	0	91	70	130			
Trichloroethene	47.8	2.5	50	0	96	69	130			
Toluene	46.4	1.3	50	0	93	67	130			
Chlorobenzene	47.5	2.5	50	0	95	70	130			
Ethylbenzene	48.9	1.3	50	0	98	70	130			
m,p-Xylene	52.1	1.3	50	0	104	69	130			
o-Xylene	51.2	1.3	50	0	102	70	130			
Xylenes, Total	103	1.3	100	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	48.9		50		98	75	128			
Surr: Toluene-d8	50.3		50		101	80	120			
Surr: 4-Bromofluorobenzene	48		50		96	80	120			

Alpha Analytical, Inc.

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

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

Date: 17-Apr-07

QC Summary Report

Work Order: 07040922

Sample Matrix Spike Duplicate Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **D:\HPCHEM\MS09\DATA\070411\07041107.D** Batch ID: **MS09W0411A** Analysis Date: **04/11/2007 11:48**

Sample ID: **07040906-01AMSD** Units : **µg/L** Run ID: **MSD_09_070411A** Prep Date: **04/11/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	44.6	2.5	50	0	89	66	132	47.52	6.3(20)	
Methyl tert-butyl ether (MTBE)	47.8	1.3	50	0	96	62	139	48.43	1.4(20)	
Benzene	43.5	1.3	50	0	87	70	130	45.56	4.7(20)	
Trichloroethene	45.7	2.5	50	0	91	69	130	47.77	4.5(20)	
Toluene	45.2	1.3	50	0	90	67	130	46.42	2.8(20)	
Chlorobenzene	46.8	2.5	50	0	94	70	130	47.51	1.5(20)	
Ethylbenzene	47.3	1.3	50	0	95	70	130	48.9	3.4(20)	
m,p-Xylene	50.4	1.3	50	0	101	69	130	52.11	3.3(20)	
o-Xylene	49.9	1.3	50	0	99.8	70	130	51.24	2.6(20)	
Xylenes, Total	100	1.3	100	0	100	70	130	103.4	3.0(20)	
Surr: 1,2-Dichloroethane-d4	49.5		50		99	75	128			
Surr: Toluene-d8	50.5		50		101	80	120			
Surr: 4-Bromofluorobenzene	47.7		50		95	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.

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

April 16, 2007

CLS Work Order #: CQD0301
COC #:

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

Project Name: STR07040922

Enclosed are the results of analyses for samples received by the laboratory on 04/09/07 15:00. 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

04/16/07 14:45

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07040922 Project Number: STR07040922 Project Manager: Reyna Vallejo	**CLS Work Order #: CQD0301** COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR07040922-04A (MW-7) (CQD0301-01) Water Sampled: 04/09/07 09:30 Received: 04/09/07 15:00									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ03012	04/10/07	04/15/07	EPA 405.1	
STR07040922-05A (MW-8) (CQD0301-02) Water Sampled: 04/09/07 08:25 Received: 04/09/07 15:00									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ03012	04/10/07	04/15/07	EPA 405.1	
STR07040922-08A (EX-1) (CQD0301-03) Water Sampled: 04/09/07 09:19 Received: 04/09/07 15:00									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ03012	04/10/07	04/15/07	EPA 405.1	
STR07040922-09A (EX-2) (CQD0301-04) Water Sampled: 04/09/07 08:41 Received: 04/09/07 15:00									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ03012	04/10/07	04/15/07	EPA 405.1	
STR07040922-10A (EX-3) (CQD0301-05) Water Sampled: 04/09/07 10:17 Received: 04/09/07 15:00									
Biochemical Oxygen Demand	**8.4**	3.0	mg/L	1	CQ03012	04/10/07	04/15/07	EPA 405.1	

CALIFORNIA LABORATORY SERVICES

04/16/07 14:45

Alpha Analytical, Inc.-Sparks	Project: STR07040922	**CLS Work Order #: CQD0301**
255 Glendale Ave.; Suite 21	Project Number: STR07040922	
Sparks NV, 89431	Project Manager: Reyna Vallejo	COC #:

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR07040922-04A (MW-7) (CQD0301-01) Water Sampled: 04/09/07 09:30 Received: 04/09/07 15:00									
Plate Count	**64**	1	CFU/mL	1	CQ02991	04/09/07	04/11/07	SM 9215	
STR07040922-05A (MW-8) (CQD0301-02) Water Sampled: 04/09/07 08:25 Received: 04/09/07 15:00									
Plate Count	**590**	10	CFU/mL	10	CQ02991	04/09/07	04/11/07	SM 9215	
STR07040922-08A (EX-1) (CQD0301-03) Water Sampled: 04/09/07 09:19 Received: 04/09/07 15:00									
Plate Count	**780**	10	CFU/mL	10	CQ02991	04/09/07	04/11/07	SM 9215	
STR07040922-09A (EX-2) (CQD0301-04) Water Sampled: 04/09/07 08:41 Received: 04/09/07 15:00									
Plate Count	**8200**	100	CFU/mL	100	CQ02991	04/09/07	04/11/07	SM 9215	
STR07040922-10A (EX-3) (CQD0301-05) Water Sampled: 04/09/07 10:17 Received: 04/09/07 15:00									
Plate Count	**13000**	100	CFU/mL	100	CQ02991	04/09/07	04/11/07	SM 9215	

CALIFORNIA LABORATORY SERVICES

04/16/07 14:45

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07040922 Project Number: STR07040922 Project Manager: Reyna Vallejo	**CLS Work Order #: CQD0301** 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 CQ03012 - General										
Blank (CQ03012-BLK1)				Prepared: 04/10/07 Analyzed: 04/15/07						
Biochemical Oxygen Demand	ND	3.0	mg/L							
LCS (CQ03012-BS1)				Prepared: 04/10/07 Analyzed: 04/15/07						
Biochemical Oxygen Demand	153	3.0	mg/L	200		76.5	55-125		24	
LCS Dup (CQ03012-BSD1)				Prepared: 04/10/07 Analyzed: 04/15/07						
Biochemical Oxygen Demand	192	3.0	mg/L	200		96.0	55-125	22.6	24	

CALIFORNIA LABORATORY SERVICES

04/16/07 14:45

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07040922 Project Number: STR07040922 Project Manager: Reyna Vallejo	**CLS Work Order #: CQD0301** COC #:

Notes and Definitions

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 : **4/18/2007** Date of Notice : **4/10/2007 10:22:01**

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: **STR07040922**	Date Received: **4/9/2007**	Received by: Latricia Edrosa

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 ☐	Cooler Temperature
Container/Temp Blank temperature in compliance (0-6°C)?	Yes ☑	No ☐	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 : Chain prelogged 4/9/07 in order for Sac Office to sub BOD and HPC to CLS for samples -04,-05,-08,-09,-10; rest of sample received 4/10/07. Received Sulfide bottles for -04, -05, -08, -09 & -10 even though not listed on COC. Logged in for these analysis per Edana.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CAMENDED

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

WorkOrder : STR07040922

Report Due By : 5:00 PM On : 18-Apr-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 # : 17661

EDD Required : **Yes**
Sampled by : Wilkins/Zalutka

Cooler Temp	Samples Received	Date Printed
4 °C	09-Apr-07	13-Apr-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
STR07040922-01A	MW-3	AQ	04/09/07 07:34	5	0	6				MeOH / EtOH						
STR07040922-02A	MW-4	AQ	04/09/07 06:40	5	0	6				MeOH / EtOH						
STR07040922-03A	MW-6	AQ	04/09/07 06:07	5	0	6				MeOH / EtOH						
STR07040922-04A	MW-7	AQ	04/09/07 09:30	13	2	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	BOD and HPC subbed to CLS by Sac Office.
STR07040922-05A	MW-8	AQ	04/09/07 08:25	13	2	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	BOD and HPC subbed to CLS by Sac Office.
STR07040922-06A	S-1	AQ	04/09/07 07:11	5	0	6				MeOH / EtOH						
STR07040922-07A	S-2	AQ	04/09/07 07:41	5	0	6				MeOH / EtOH						
STR07040922-08A	EX-1	AQ	04/09/07 09:19	13	2	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	BOD and HPC subbed to CLS by Sac Office.
STR07040922-09A	EX-2	AQ	04/09/07 08:41	13	2	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	BOD and HPC subbed to CLS by Sac Office.
STR07040922-10A	EX-3	AQ	04/09/07 10:17	13	2	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3, SO4	NO2, NO3, SO4	BOD	SUB	BOD and HPC subbed to CLS by Sac Office.

Comments: Security seals intact. Frozen ice. Chain prelogged 4/9/07 in order for Sac Office to sub BOD and HPC to CLS for samples -04,-05,-08,-09,-10; rest of sample received 4/10/07. Send copy of receipt checklist with final report. TOC pH=2. : Received Sulfide bottles for -04, -05, -08, -09 & -10 even though not listed on COC. Logged in for these analysis per Edana. Amended 4/13/07 @ 12:21 to add Sulfate to -04, -05, -08, -09 & -10 per email from Tammy at STR. LE

	Signature	Print Name	Company	Date/Time
Logged in by:	Patricia Edrosa	Patricia Edrosa	Alpha Analytical, Inc.	4/13/07 12:21

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 AMENDED Page: 2 of 4

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

WorkOrder : STR07040922

Report Due By : 5:00 PM On : 18-Apr-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 : Wilkins/Zalutka

Report Attention : Gowri Kowtha
CC Report :

Job : 2007-0057-01/ USA 57
PO :
Client's COC # : 17661

Cooler Temp	Samples Received	Date Printed
4 °C	09-Apr-07	13-Apr-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
STR07040922-01A	MW-3	AQ	04/09/07 07:34	5	0	6							GAS-C	BTEX/OXY/1,2-DCA/EDB_C		
STR07040922-02A	MW-4	AQ	04/09/07 06:40	5	0	6							GAS-C	BTEX/OXY/1,2-DCA/EDB_C		
STR07040922-03A	MW-6	AQ	04/09/07 06:07	5	0	6							GAS-C	BTEX/OXY/1,2-DCA/EDB_C		
STR07040922-04A	MW-7	AQ	04/09/07 09:30	13	2	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/1,2-DCA/EDB_C		BOD and HPC subbed to CLS by Sac Office.
STR07040922-05A	MW-8	AQ	04/09/07 08:25	13	2	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/1,2-DCA/EDB_C		BOD and HPC subbed to CLS by Sac Office.
STR07040922-06A	S-1	AQ	04/09/07 07:11	5	0	6							GAS-C	BTEX/OXY/1,2-DCA/EDB_C		
STR07040922-07A	S-2	AQ	04/09/07 07:41	5	0	6							GAS-C	BTEX/OXY/1,2-DCA/EDB_C		
STR07040922-08A	EX-1	AQ	04/09/07 09:19	13	2	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/1,2-DCA/EDB_C		BOD and HPC subbed to CLS by Sac Office.

Comments: Security seals intact. Frozen ice. Chain prelogged 4/9/07 in order for Sac Office to sub BOD and HPC to CLS for samples -04,-05,-08,-09,-10; rest of sample received 4/10/07. Send copy of receipt checklist with final report. TOC pH=2. : Received Sulfide bottles for -04, -05, -08, -09 & -10 even though not listed on COC. Logged in for these analysis per Edana. Amended 4/13/07 @ 12:21 to add Sulfate to -04, -05, -08, -09 & -10 per email from Tammy at STR. LE

	Signature	Print Name	Company	Date/Time
Logged in by:	Latricia Edrosa	Latricia Edrosa	Alpha Analytical, Inc.	4/13/07 12:21

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

AMENDED
CA

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

WorkOrder : STR07040922

Report Due By : 5:00 PM On : 18-Apr-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 : Wilkins/Zalutka

Report Attention : Gowri Kowtha
CC Report :

Job : 2007-0057-01/ USA 57
PO :
Client's COC # : 17661

Cooler Temp	Samples Received	Date Printed
4 °C	09-Apr-07	13-Apr-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
STR07040922-11A	EX-4	AQ	04/09/07 06:36	5	0	6				MeOH / EtOH						

Comments: Security seals intact. Frozen ice. Chain prelogged 4/9/07 in order for Sac Office to sub BOD and HPC to CLS for samples -04,-05,-08,-09,-10; rest of sample received 4/10/07. Send copy of receipt checklist with final report. TOC pH=2. : Received Sulfide bottles for -04, -05, -08, -09 & -10 even though not listed on COC. Logged in for these analysis per Edana. Amended 4/13/07 @ 12:21 to add Sulfate to -04, -05, -08, -09 & -10 per email from Tammy at STR. LE

	Signature	Print Name	Company	Date/Time
Logged in by:	Patricia Edrosa	Patricia Edrosa	Alpha Analytical, Inc.	4/13/07 1212

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.
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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 : STR07040922

Report Due By : 5:00 PM On : 18-Apr-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 : Wilkins/Zalutka

Report Attention : Gowri Kowtha
CC Report :

Job : 2007-0057-01/ USA 57
PO :
Client's COC # : 17661

Cooler Temp	Samples Received	Date Printed
4 °C	09-Apr-07	13-Apr-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
STR07040922-09A	EX-2	AQ	04/09/07 08:41	13	2	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C	BOD and HPC subbed to CLS by Sac Office.
STR07040922-10A	EX-3	AQ	04/09/07 10:17	13	2	6		Ortho	Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C	BOD and HPC subbed to CLS by Sac Office.
STR07040922-11A	EX-4	AQ	04/09/07 06:36	5	0	6							GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C	

Comments: Security seals intact. Frozen ice. Chain prelogged 4/9/07 in order for Sac Office to sub BOD and HPC to CLS for samples -04,-05,-08,-09,-10; rest of sample received 4/10/07. Send copy of receipt checklist with final report. TOC pH=2. : Received Sulfide bottles for -04, -05, -08, -09 & -10 even though not listed on COC. Logged in for these analysis per Edana. Amended 4/13/07 @ 12:21 to add Sulfate to -04, -05, -08, -09 & -10 per email from Tammy at STR. LE

	Signature	Print Name	Company	Date/Time
Logged in by:	Latricia Edrosa	Latricia Edrosa	Alpha Analytical, Inc.	4/13/07 12:21

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.
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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 : STR07040922

Report Due By : 5:00 PM On : 18-Apr-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 : Wilkins/Zalutka

Report Attention : Gowri Kowtha
CC Report :

Job : 2007-0057-01/ USA 57
PO :
Client's COC # : 17661

Cooler Temp	Samples Received	Date Printed
4 °C	09-Apr-07	10-Apr-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	BOD	HETEROTROPIC	ORTHOPHOS_W	Sample Remarks
STR07040922-01A	MW-3	AQ	04/09/07 07:34	5	0	6				MeOH / EtOH						
STR07040922-02A	MW-4	AQ	04/09/07 06:40	5	0	6				MeOH / EtOH						
STR07040922-03A	MW-6	AQ	04/09/07 06:07	5	0	6				MeOH / EtOH						
STR07040922-04A	MW-7	AQ	04/09/07 09:30	13	2	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3	BOD	SUB	Ortho	BOD and HPC subbed to CLS by Sac Office.
STR07040922-05A	MW-8	AQ	04/09/07 08:25	13	2	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3	BOD	SUB	Ortho	BOD and HPC subbed to CLS by Sac Office.
STR07040922-06A	S-1	AQ	04/09/07 07:11	5	0	6				MeOH / EtOH						
STR07040922-07A	S-2	AQ	04/09/07 07:41	5	0	6				MeOH / EtOH						
STR07040922-08A	EX-1	AQ	04/09/07 09:19	13	2	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3	BOD	SUB	Ortho	BOD and HPC subbed to CLS by Sac Office.
STR07040922-09A	EX-2	AQ	04/09/07 08:41	13	2	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3	BOD	SUB	Ortho	BOD and HPC subbed to CLS by Sac Office.
STR07040922-10A	EX-3	AQ	04/09/07 10:17	13	2	6		FE+2	FE,Total	MeOH / EtOH	NH3	NO2, NO3	BOD	SUB	Ortho	BOD and HPC subbed to CLS by Sac Office.

Comments: Security seals intact. Frozen ice. Chain prelogged 4/9/07 in order for Sac Office to sub BOD and HPC to CLS for samples -04,-05,-08,-09,-10; rest of sample received 4/10/07. Send copy of receipt checklist with final report. TOC pH=2. : Received Sulfide bottles for -04, -05, -08, -09 & -10 even though not listed on COC. Logged in for these analysis per Edana.

	Signature	Print Name	Company	Date/Time
Logged in by:	Latricia Edrosa	Latricia Edrosa	Alpha Analytical, Inc.	4/10/07 9:37

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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 : STR07040922

Report Due By : 5:00 PM On : 18-Apr-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 : Wilkins/Zalutka

Report Attention : Gowri Kowtha
CC Report :

Job : 2007-0057-01/ USA 57
PO :
Client's COC # : 17661

Cooler Temp	Samples Received	Date Printed
4 °C	09-Apr-07	10-Apr-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 PHOSPHORUS_W	SULFIDE	TDS	TOC_W	TPH/P_W	VOC_W			Sample Remarks
STR07040922-01A	MW-3	AQ	04/09/07 07:34	5	0	6						GAS-C	BTEX/OXY/1,2-DCA/EDB_C			
STR07040922-02A	MW-4	AQ	04/09/07 06:40	5	0	6						GAS-C	BTEX/OXY/1,2-DCA/EDB_C			
STR07040922-03A	MW-6	AQ	04/09/07 06:07	5	0	6						GAS-C	BTEX/OXY/1,2-DCA/EDB_C			
STR07040922-04A	MW-7	AQ	04/09/07 09:30	13	2	6		Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/1,2-DCA/EDB_C			BOD and HPC subbed to CLS by Sac Office.
STR07040922-05A	MW-8	AQ	04/09/07 08:25	13	2	6		Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/1,2-DCA/EDB_C			BOD and HPC subbed to CLS by Sac Office.
STR07040922-06A	S-1	AQ	04/09/07 07:11	5	0	6						GAS-C	BTEX/OXY/1,2-DCA/EDB_C			
STR07040922-07A	S-2	AQ	04/09/07 07:41	5	0	6						GAS-C	BTEX/OXY/1,2-DCA/EDB_C			
STR07040922-08A	EX-1	AQ	04/09/07 09:19	13	2	6		Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/1,2-DCA/EDB_C			BOD and HPC subbed to CLS by Sac Office.

Comments: Security seals intact. Frozen ice. Chain prelogged 4/9/07 in order for Sac Office to sub BOD and HPC to CLS for samples -04,-05,-08,-09,-10; rest of sample received 4/10/07. Send copy of receipt checklist with final report. TOC pH=2. : Received Sulfide bottles for -04, -05, -08, -09 & -10 even though not listed on COC. Logged in for these analysis per Edana.

	Signature	Print Name	Company	Date/Time
Logged in by:	Patricia Edrosa	Patricia Edrosa	Alpha Analytical, Inc.	4/10/07 9:37

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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 : STR07040922

Report Due By : 5:00 PM On : 18-Apr-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 : Wilkins/Zalutka

Report Attention : Gowri Kowtha
CC Report :

Job : 2007-0057-01/ USA 57
PO :
Client's COC # : 17661

Cooler Temp	Samples Received	Date Printed
4 °C	09-Apr-07	10-Apr-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	BOD	HETEROTROPIC	ORTHOPHOS_W	Sample Remarks
STR07040922-11A	EX-4	AQ	04/09/07 06:36	5	0	6				MeOH / EtOH						

Comments: Security seals intact. Frozen ice. Chain prelogged 4/9/07 in order for Sac Office to sub BOD and HPC to CLS for samples -04,-05,-08,-09,-10; rest of sample received 4/10/07. Send copy of receipt checklist with final report. TOC pH=2. : Received Sulfide bottles for -04, -05, -08, -09 & -10 even though not listed on COC. Logged in for these analysis per Edana.

	Signature	Print Name	Company	Date/Time
Logged in by:	Patricia Edrasa	Patricia Edrasa	Alpha Analytical, Inc.	4/10/07 9:37

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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 : STR07040922

Report Due By : 5:00 PM On : 18-Apr-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 : Wilkins/Zalutka

Report Attention : Gowri Kowtha
CC Report :

Job : 2007-0057-01/ USA 57
PO :
Client's COC # : 17661

Cooler Temp	Samples Received	Date Printed
4 °C	09-Apr-07	**10-Apr-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 PHOSPHORUS_W	SULFIDE	TDS	TOC_W	TPH/P_W	VOC_W			Sample Remarks
STR07040922-09A	EX-2	AQ	04/09/07 08:41	13	2	6		Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C			BOD and HPC subbed to CLS by Sac Office.
STR07040922-10A	EX-3	AQ	04/09/07 10:17	13	2	6		Total	Sulfide	X	TOC	GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C			BOD and HPC subbed to CLS by Sac Office.
STR07040922-11A	EX-4	AQ	04/09/07 06:36	5	0	6						GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C			

Comments: Security seals intact. Frozen ice. Chain prelogged 4/9/07 in order for Sac Office to sub BOD and HPC to CLS for samples -04,-05,-08,-09,-10; rest of sample received 4/10/07. Send copy of receipt checklist with final report. TOC pH=2. : Received Sulfide bottles for -04, -05, -08, -09 & -10 even though not listed on COC. Logged in for these analysis per Edana.

	Signature	Print Name	Company	Date/Time
Logged in by:	Patricia Edrosa	Patricia Edrosa	Alpha Analytical, Inc.	4/10/07 9:37

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Billing Information:
Name Stratus Environmental
Address 3330 Cameron Park dr.
City, State, Zip Cameron Park CA 95682
Phone Number 530-676-6001 Fax

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

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___
ID ___ OR ___ OTHER ___

17641

Page # 1 of 2

Client Name	P.O. #	Job #
USA 57		2007-0057-01
Address	**EMail Address**	
10700 McArthur Blvd		
City, State, Zip	**Phone #**	**Fax #**
Oakland CA		

Analyses Required

Required QC Level? I II III IV

EDD / EDF? YES X NO ___

Global ID # T0600101808

Time Sampled	Date Sampled 2007	Matrix* See Key Below	Sampled by: Wilkins/Zaluska Lab ID Number (Office Use Only)	Report Attention: GOWRI Sample Description	TAT	Field Filtered	Total and type of containers ** See below	TPHG	BTEX	50 xy's	1,2DCA	EDB	Methanol	Ethanol	REMARKS
0734	04/09	AQ	STR07040922-01	MW-3	Std		5 HCL VOAs	X	X	X	X	X	X	X	Additional Analyses
0640			-02	MW-4											For wells MW-7
				~~MW-5~~											~~MW-8, Ext, Ex-2~~
0607			-03	MW-6			✓								Ex-3
0930			-04	MW-7			1 5								BOD
0825			-05	MW-8			1 5								Total Iron & Ferrous Iron
0711			-06	S-1			5								HPC
0741			-07	S-2			5								TOC
0919			-08	EX-1			1 5								TDS
0841			-09	EX-2			1 5								NO3 NO2 @ Ammonia
1017			-10	EX-3			1 5								Total P & Ortho-P
0636			-11	EX-4			5								
														X	BOD and HPC

Sub to CLS #070940 0122

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by		G. Wilkins	Stratus	04-09-07	1333
Received by		Lisa Bryla	ALPHA	4-9-07	1333
Relinquished by					
Received by		Patricia Edrosa	~~Katr~~ Alpha	4/10/07	9:37
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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.

CQD0301

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

SUB CHAIN-OF-CUSTODY RECORD

Work Order : STR07040922

***Please reference the Work Order number on all reports and invoices.**
***Also please include the dates of analysis and detection limits.**
Please send the report to Alpha Analytical (Sparks).
Attention To Reyna Vallejo (reyna@alpha-analytical.com).

Report Due By : 5:00 PM
On : 18-Apr-07

Subcontractor:
CLS Labs
3249 Fitzgerald Rd.
Suite 21
Rancho Cordova, CA 95742

TEL: (916) 638-7301
FAX: (916) 638-4510
Acct #:

EDD Required:
Yes

Required QC:
Final Rpt, MBLK, LCS, MS/MSD With Surrogates

09-Apr-07

Alpha's Sample ID	Client's Sample ID	Matrix	Collection Date	Type (#) of Bottles Preserved	Type (#) of Bottles Other	Requested Tests SM5210B	Requested Tests Standard Method 9215B	Sample Comments
STR07040922-04A	MW-7	Aqueous	04/09/07 09:30	OTHERP (1)	1LHDPE-U (1)	Biochemical Oxygen Demand	Heterotropic Plate Count	BOD and HPC subbed to CLS by Sac Office.
STR07040922-05A	MW-8	Aqueous	04/09/07 08:25	OTHERP (1)	1LHDPE-U (1)	Biochemical Oxygen Demand	Heterotropic Plate Count	BOD and HPC subbed to CLS by Sac Office.
STR07040922-08A	EX-1	Aqueous	04/09/07 09:19	OTHERP (1)	1LHDPE-U (1)	Biochemical Oxygen Demand	Heterotropic Plate Count	BOD and HPC subbed to CLS by Sac Office.
STR07040922-09A	EX-2	Aqueous	04/09/07 08:41	OTHERP (1)	1LHDPE-U (1)	Biochemical Oxygen Demand	Heterotropic Plate Count	BOD and HPC subbed to CLS by Sac Office.
STR07040922-10A	EX-3	Aqueous	04/09/07 10:17	OTHERP (1)	1LHDPE-U (1)	Biochemical Oxygen Demand	Heterotropic Plate Count	BOD and HPC subbed to CLS by Sac Office.

Comments:

	Date/Time		Date/Time
Relinquished by:	4-9-07 1500	**Received by:**	
Relinquished by:		**Received by:**	3° 4-9-7 1500

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

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received 04/23/07

MAY 1 6 200

Job#: 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)	ND	50 µg/L	04/23/07	04/26/07
MW-5	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	04/23/07	04/26/07
Lab ID :	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	04/23/07	04/26/07
STR07042325-03A	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	04/23/07	04/26/07
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	04/23/07	04/26/07
	1,2-Dichloroethane	ND	1.0 µg/L	04/23/07	04/26/07
	Benzene	ND	0.50 µg/L	04/23/07	04/26/07
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	04/23/07	04/26/07
	Toluene	ND	0.50 µg/L	04/23/07	04/26/07
	1,2-Dibromoethane (EDB)	ND	2.0 µg/L	04/23/07	04/26/07
	Ethylbenzene	ND	0.50 µg/L	04/23/07	04/26/07
	m,p-Xylene	ND	0.50 µg/L	04/23/07	04/26/07
	o-Xylene	ND	0.50 µg/L	04/23/07	04/26/07

Gasoline Range Organics (GRO) C4-C13

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

Roger Scholl Randy Gardner Walter Hinchman

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Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

5/1/07
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 04/23/07

Job#: 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-3**					
Lab ID :	STR07042325-01A	Total Organic Carbon	11,000	1,000 µg/L	04/23/07	04/24/07
Client ID :	**S-1**					
Lab ID :	STR07042325-02A	Total Organic Carbon	6,700	1,000 µg/L	04/23/07	04/24/07

Reported in micrograms per Liter, per client request.

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Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/23/07

Job#: USA 57

Iron by Spectrophotometer
SM3500-Fe D

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-3**					
Lab ID :	STR07042325-01A	Iron, Ferrous (+2)	ND	50 µg/L	04/23/07	04/24/07
		Iron, Total	1,000	300 µg/L	04/23/07	04/27/07
Client ID :	**S-1**					
Lab ID :	STR07042325-02A	Iron, Ferrous (+2)	ND	50 µg/L	04/23/07	04/24/07
		Iron, Total	5,400	300 µg/L	04/23/07	04/27/07

ND = Not Detected
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Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/23/07

Job#: USA 57

Ammonia as Nitrogen
EPA Method 350.3 / SM4500-NH3F

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-3**					
Lab ID :	STR07042325-01A	Nitrogen, Ammonia (As N)	ND	100 µg/L	04/23/07	04/27/07
Client ID :	**S-1**					
Lab ID :	STR07042325-02A	Nitrogen, Ammonia (As N)	ND	100 µg/L	04/23/07	04/27/07

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

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Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/23/07

Job#: USA 57

Anions by IC
EPA Method 300.0 / 9056

	Parameter	Concentration	Reporting Limit	Date / Time Sampled	Date / Time Analyzed
Client ID : **MW-3**	Nitrite (NO2) - N	ND	250 µg/L	04/23/07 05:17	04/24/07 17:07
Lab ID : STR07042325-01A	Nitrate (NO3) - N	ND	250 µg/L	04/23/07 05:17	04/24/07 17:07
Client ID : **S-1**	Nitrite (NO2) - N	ND	250 µg/L	04/23/07 05:54	04/24/07 17:26
Lab ID : STR07042325-02A	Nitrate (NO3) - N	ND	250 µg/L	04/23/07 05:54	04/24/07 17:26

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

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job#: USA 57

Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005

Anions by Ion Chromatography (IC) EPA Method 300.0 / SW9056

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-3**					
Lab ID :	STR07042325-01A	Sulfate (SO4)	20,000	500 µg/L	04/23/07	04/24/07
Client ID :	**S-1**					
Lab ID :	STR07042325-02A	Sulfate (SO4)	44,000	500 µg/L	04/23/07	04/24/07

Reported in micrograms per Liter, per client request.

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Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/23/07

Job#: USA 57

Orthophosphate in Water
EPA Method 365.2 / SM4500PE

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-3**					
Lab ID :	STR07042325-01A	Total Orthophosphate	100	100 µg/L	04/23/07	04/24/07
Client ID :	**S-1**					
Lab ID :	STR07042325-02A	Total Orthophosphate	ND	100 µg/L	04/23/07	04/24/07

ND = Not Detected
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Phone: (530) 676-6001
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Date Received : 04/23/07

Job#: USA 57

Phosphorus
EPA Method 365.2 / SM4500PE

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-3**					
Lab ID :	STR07042325-01A	Phosphorus, Total (As P)	ND	100 µg/L	04/23/07	04/25/07
Client ID :	**S-1**					
Lab ID :	STR07042325-02A	Phosphorus, Total (As P)	ND	100 µg/L	04/23/07	04/25/07

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

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ANALYTICAL REPORT

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Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/23/07

Job#: USA 57

Sulfide
EPA Method 376.2 / SM4500-S D

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-3**					
Lab ID :	STR07042325-01A	Sulfide	ND	100 µg/L	04/23/07	04/26/07
Client ID :	**S-1**					
Lab ID :	STR07042325-02A	Sulfide	ND	100 µg/L	04/23/07	04/26/07

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

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5/1/07
Report Date

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Attn: Gowri Kowtha
Phone: (530) 676-6001
Fax: (530) 676-6005
Date Received : 04/23/07

Job#: USA 57

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

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**MW-3**					
Lab ID :	STR07042325-01A	Solids, Total Dissolved (TDS)	1,700,000	10,000 µg/L	04/23/07	05/01/07
Client ID :	**S-1**					
Lab ID :	STR07042325-02A	Solids, Total Dissolved (TDS)	650,000	10,000 µg/L	04/23/07	04/30/07

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VOC Sample Preservation Report

Work Order: STR07042325 **Project:** USA 57

Alpha's Sample ID	Client's Sample ID	Matrix	pH
07042325-03A	MW-5	Aqueous	2

5/1/07

Report Date

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

Date: *29-Apr-07*

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: Batch ID: **W070424FER** Analysis Date: **04/24/2007 00:00**

Sample ID: **MBLK-W070424FER** Units : **µg/L** Run ID: **WETLAB_070424F** Prep Date: **04/24/2007**

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: **W070424FER** Analysis Date: **04/24/2007 00:00**

Sample ID: **LCS-W070424FER** Units : **µg/L** Run ID: **WETLAB_070424F** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1440	50	1500		96	85	115			

Sample Matrix Spike

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

File ID: Batch ID: **W070424FER** Analysis Date: **04/24/2007 00:00**

Sample ID: **07042325-01AMS** Units : **µg/L** Run ID: **WETLAB_070424F** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1420	50	1500	0	95	70	130			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070424FER** Analysis Date: **04/24/2007 00:00**

Sample ID: **07042325-01AMSD** Units : **µg/L** Run ID: **WETLAB_070424F** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1420	50	1500	0	94	70	130	1421	0.3(20)	

Comments:

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Date: 29-Apr-07

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: Batch ID: **W070427FETA** Analysis Date: **04/27/2007 00:00**

Sample ID: **MBLK-W070427FETA** Units : **µg/L** Run ID: **WETLAB_070427D** Prep Date: **04/27/2007**

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: **W070427FETA** Analysis Date: **04/27/2007 00:00**

Sample ID: **LCS-W070427FETA** Units : **µg/L** Run ID: **WETLAB_070427D** Prep Date: **04/27/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	9900	1500	10000		99	85	115			

Sample Matrix Spike

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

File ID: Batch ID: **W070427FETA** Analysis Date: **04/27/2007 00:00**

Sample ID: **07042325-01AMS** Units : **µg/L** Run ID: **WETLAB_070427D** Prep Date: **04/27/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	9660	1500	10000	1046	86	70	130			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070427FETA** Analysis Date: **04/27/2007 00:00**

Sample ID: **07042325-01AMSD** Units : **µg/L** Run ID: **WETLAB_070427D** Prep Date: **04/27/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Total	10000	1500	10000	1046	90	70	130	9662	3.4(20)	

Comments:

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Date: *29-Apr-07*

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: Batch ID: **W070427AMM** Analysis Date: **04/27/2007 00:00**

Sample ID: **MBLK-W070427AMM** Units : **µg/L** Run ID: **WETLAB_070427B** Prep Date: **04/27/2007**

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: **W070427AMM** Analysis Date: **04/27/2007 00:00**

Sample ID: **LCS-W070427AMM** Units : **µg/L** Run ID: **WETLAB_070427B** Prep Date: **04/27/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5210	100	5000		104	70	130			

Sample Matrix Spike

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

File ID: Batch ID: **W070427AMM** Analysis Date: **04/27/2007 00:00**

Sample ID: **07042325-01AMS** Units : **µg/L** Run ID: **WETLAB_070427B** Prep Date: **04/27/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5060	100	5000	0	101	65	138			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070427AMM** Analysis Date: **04/27/2007 00:00**

Sample ID: **07042325-01AMSD** Units : **µg/L** Run ID: **WETLAB_070427B** Prep Date: **04/27/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5300	100	5000	0	106	65	138	5060	4.6(20)	

Comments:

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Date: *25-Apr-07*

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: **13** Batch ID: **17313A** Analysis Date: **04/24/2007 16:12**

Sample ID: **MB-17313** Units : **µg/L** Run ID: **IC_1_070424A** Prep Date: **04/24/2007**

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: **14** Batch ID: **17313A** Analysis Date: **04/24/2007 16:30**

Sample ID: **LFB-17313** Units : **µg/L** Run ID: **IC_1_070424A** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	1290	250	1250		103	90	110			
Nitrate (NO3) - N	1280	250	1250		103	90	110			

Sample Matrix Spike

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

File ID: **18** Batch ID: **17313A** Analysis Date: **04/24/2007 17:44**

Sample ID: **07042325-02ALFM** Units : **µg/L** Run ID: **IC_1_070424A** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	1310	250	1250	0	105	80	120			
Nitrate (NO3) - N	1270	250	1250	0	102	80	120			

Sample Matrix Spike Duplicate

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

File ID: **19** Batch ID: **17313A** Analysis Date: **04/24/2007 18:03**

Sample ID: **07042325-02ALFMD** Units : **µg/L** Run ID: **IC_1_070424A** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrite (NO2) - N	1330	250	1250	0	106	80	120	1309	1.4(10)	
Nitrate (NO3) - N	1270	250	1250	0	102	80	120	1272	0.1(10)	

Comments:

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Date: *25-Apr-07*

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: **13** Batch ID: **17313B** Analysis Date: **04/24/2007 16:12**

Sample ID: **MB-17313** Units : **µg/L** Run ID: **IC_1_070424A** Prep Date: **04/24/2007**

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: **14** Batch ID: **17313B** Analysis Date: **04/24/2007 16:30**

Sample ID: **LFB-17313** Units : **µg/L** Run ID: **IC_1_070424A** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	10400	500	10000		104	90	110			

Sample Matrix Spike

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

File ID: **18** Batch ID: **17313B** Analysis Date: **04/24/2007 17:44**

Sample ID: **07042325-02ALFM** Units : **µg/L** Run ID: **IC_1_070424A** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	52000	500	10000	44160	78	80	120			M3

Sample Matrix Spike Duplicate

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

File ID: **19** Batch ID: **17313B** Analysis Date: **04/24/2007 18:03**

Sample ID: **07042325-02ALFMD** Units : **µg/L** Run ID: **IC_1_070424A** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	53800	500	10000	44160	97	80	120	51960	3.6(10)	

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.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.

Reported in micrograms per Liter, per client request.

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Date: *25-Apr-07*

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: Batch ID: **W070424OPHOS** Analysis Date: **04/24/2007 00:00**

Sample ID: **MBLK-W070424OPHOS** Units : **µg/L** Run ID: **WETLAB_070424C** Prep Date: **04/24/2007**

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: **W070424OPHOS** Analysis Date: **04/24/2007 00:00**

Sample ID: **LCS-W070424OPHOS** Units : **µg/L** Run ID: **WETLAB_070424C** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate	1050	100	1000		105	80	116			

Sample Matrix Spike

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

File ID: Batch ID: **W070424OPHOS** Analysis Date: **04/24/2007 00:00**

Sample ID: **07042325-01AMS** Units : **µg/L** Run ID: **WETLAB_070424C** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate	1140	100	1000	102	104	80	116			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070424OPHOS** Analysis Date: **04/24/2007 00:00**

Sample ID: **07042325-01AMSD** Units : **µg/L** Run ID: **WETLAB_070424C** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Orthophosphate	1150	100	1000	102	105	80	116	1140	0.6(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.

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Date: *25-Apr-07*

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: Batch ID: **W070425TPHOS** Analysis Date: **04/25/2007 00:00**

Sample ID: **MBLK-W070425TPHOS** Units : **µg/L** Run ID: **WETLAB_070425B** Prep Date: **04/25/2007**

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: **W070425TPHOS** Analysis Date: **04/25/2007 00:00**

Sample ID: **LCS-W070425TPHOS** Units : **µg/L** Run ID: **WETLAB_070425B** Prep Date: **04/25/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Phosphorus, Total (As P)	1040	100	1000		104	80	118			

Sample Matrix Spike

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

File ID: Batch ID: **W070425TPHOS** Analysis Date: **04/25/2007 00:00**

Sample ID: **07042050-01AMS** Units : **µg/L** Run ID: **WETLAB_070425B** Prep Date: **04/25/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Phosphorus, Total (As P)	1220	100	1000	0	122	80	118			M1

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070425TPHOS** Analysis Date: **04/25/2007 00:00**

Sample ID: **07042050-01AMSD** Units : **µg/L** Run ID: **WETLAB_070425B** Prep Date: **04/25/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Phosphorus, Total (As P)	1130	100	1000	0	113	80	118	1221	8.2(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.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

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Date: 29-Apr-07

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: Batch ID: **W070426SULF** Analysis Date: **04/26/2007 00:00**

Sample ID: **MBLK-W070426SULF** Units : **µg/L** Run ID: **WETLAB_070426D** Prep Date: **04/26/2007**

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: **W070426SULF** Analysis Date: **04/26/2007 00:00**

Sample ID: **LCS-W070426SULF** Units : **µg/L** Run ID: **WETLAB_070426D** Prep Date: **04/26/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	873	100	1000		87	75	130			

Sample Matrix Spike

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

File ID: Batch ID: **W070426SULF** Analysis Date: **04/26/2007 00:00**

Sample ID: **07042325-01AMS** Units : **µg/L** Run ID: **WETLAB_070426D** Prep Date: **04/26/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	240	100	1000	0	24	65	150			M2

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **W070426SULF** Analysis Date: **04/26/2007 00:00**

Sample ID: **07042325-01AMSD** Units : **µg/L** Run ID: **WETLAB_070426D** Prep Date: **04/26/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	240	100	1000	0	24	65	150	240	0.0(20)	M2

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.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

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Date: *01-May-07*

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: Batch ID: **W070427TDS** Analysis Date: **05/01/2007 00:00**

Sample ID: **MBLK-W070427TDS** Units : **µg/L** Run ID: **WETLAB_070501A** Prep Date: **05/01/2007**

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: **W070427TDS** Analysis Date: **05/01/2007 00:00**

Sample ID: **LCS-W070427TDS** Units : **µg/L** Run ID: **WETLAB_070501A** Prep Date: **05/01/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Dissolved (TDS)	200000	10000	200000		100	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.

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Date: 30-Apr-07

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: Batch ID: **TOC042407** Analysis Date: **04/24/2007 13:20**

Sample ID: **MBLK-TOC042407** Units : **µg/L** Run ID: **TOC_070424A** Prep Date: **04/24/2007**

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: **TOC042407** Analysis Date: **04/24/2007 12:58**

Sample ID: **LCS-TOC042407** Units : **µg/L** Run ID: **TOC_070424A** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	4760	1000	5000		95	74	126			

Sample Matrix Spike

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

File ID: Batch ID: **TOC042407** Analysis Date: **04/24/2007 15:32**

Sample ID: **07041926-01AMS** Units : **µg/L** Run ID: **TOC_070424A** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	6750	1000	5000	1965	96	56	137			

Sample Matrix Spike Duplicate

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

File ID: Batch ID: **TOC042407** Analysis Date: **04/24/2007 16:02**

Sample ID: **07041926-01AMSD** Units : **µg/L** Run ID: **TOC_070424A** Prep Date: **04/24/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	6830	1000	5000	1965	97	56	137	6752	1.2(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.

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Date: 30-Apr-07

QC Summary Report

Work Order: 07042325

Method Blank

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

File ID: **D:\HPCHEM\MS09\DATA\070425\07042535.D** Batch ID: **MS09W0425D** Analysis Date: **04/25/2007 22:40**

Sample ID: **MBLK MS09W0425D** Units : **µg/L** Run ID: **MSD_09_070425A** Prep Date: **04/25/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.3		10		103	75	128			
Surr: Toluene-d8	10.1		10		101	80	120			
Surr: 4-Bromofluorobenzene	9.68		10		97	80	120			

Laboratory Control Spike

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

File ID: **D:\HPCHEM\MS09\DATA\070425\07042533.D** Batch ID: **MS09W0425D** Analysis Date: **04/25/2007 21:54**

Sample ID: **GLCS MS09W0425D** Units : **µg/L** Run ID: **MSD_09_070425A** Prep Date: **04/25/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	407	50	400		102	70	130			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	75	128			
Surr: Toluene-d8	9.97		10		99.7	80	120			
Surr: 4-Bromofluorobenzene	10.1		10		101	80	120			

Sample Matrix Spike

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

File ID: **D:\HPCHEM\MS09\DATA\070425\07042542.D** Batch ID: **MS09W0425D** Analysis Date: **04/26/2007 01:21**

Sample ID: **07042325-03AGS** Units : **µg/L** Run ID: **MSD_09_070425A** Prep Date: **04/26/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1950	250	2000	0	98	60	131			
Surr: 1,2-Dichloroethane-d4	52.5		50		105	75	128			
Surr: Toluene-d8	50.4		50		101	80	120			
Surr: 4-Bromofluorobenzene	49.9		50		99.8	80	120			

Sample Matrix Spike Duplicate

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

File ID: **D:\HPCHEM\MS09\DATA\070425\07042543.D** Batch ID: **MS09W0425D** Analysis Date: **04/26/2007 01:45**

Sample ID: **07042325-03AGSD** Units : **µg/L** Run ID: **MSD_09_070425A** Prep Date: **04/26/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2050	250	2000	0	102	60	131	1952	4.7(20)	
Surr: 1,2-Dichloroethane-d4	52		50		104	75	128			
Surr: Toluene-d8	50		50		100	80	120			
Surr: 4-Bromofluorobenzene	50.6		50		101	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.

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Date: 30-Apr-07

OC Summary Report

Work Order: 07042325

Method Blank

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

File ID: **D:\HPCHEM\MS09\DATA\070425\07042535.D** Batch ID: **MS09W0425C** Analysis Date: **04/25/2007 22:40**

Sample ID: **MBLK MS09W0425C** Units : **µg/L** Run ID: **MSD_09_070425A** Prep Date: **04/25/2007**

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	10.3		10		103	75	128			
Surr: Toluene-d8	10.1		10		101	80	120			
Surr: 4-Bromofluorobenzene	9.68		10		97	80	120			

Laboratory Control Spike

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

File ID: **D:\HPCHEM\MS09\DATA\070425\07042531.D** Batch ID: **MS09W0425C** Analysis Date: **04/25/2007 21:09**

Sample ID: **LCS MS09W0425C** Units : **µg/L** Run ID: **MSD_09_070425A** Prep Date: **04/25/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.73	0.5	10		97	70	130			
Benzene	9.5	0.5	10		95	70	130			
Toluene	9.81	0.5	10		98	80	120			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	10.8	0.5	10		108	70	130			
o-Xylene	10.5	0.5	10		105	70	130			
Surr: 1,2-Dichloroethane-d4	9.93		10		99	75	128			
Surr: Toluene-d8	10.2		10		102	80	120			
Surr: 4-Bromofluorobenzene	9.91		10		99	80	120			

Sample Matrix Spike

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

File ID: **D:\HPCHEM\MS09\DATA\070425\07042540.D** Batch ID: **MS09W0425C** Analysis Date: **04/26/2007 00:36**

Sample ID: **07042328-21AMS** Units : **µg/L** Run ID: **MSD_09_070425A** Prep Date: **04/26/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	50.8	1.3	50	0	102	62	139			
Benzene	47.5	1.3	50	0	95	70	130			
Toluene	49.2	1.3	50	0	98	67	130			
Ethylbenzene	50.5	1.3	50	0	101	70	130			
m,p-Xylene	53.4	1.3	50	0	107	69	130			
o-Xylene	53	1.3	50	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	50.6		50		101	75	128			
Surr: Toluene-d8	50.9		50		102	80	120			
Surr: 4-Bromofluorobenzene	47.6		50		95	80	120			

Sample Matrix Spike Duplicate

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

File ID: **D:\HPCHEM\MS09\DATA\070425\07042541.D** Batch ID: **MS09W0425C** Analysis Date: **04/26/2007 00:58**

Sample ID: **07042328-21AMSD** Units : **µg/L** Run ID: **MSD_09_070425A** Prep Date: **04/26/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	48.4	1.3	50	0	97	62	139	50.8	4.8(20)	
Benzene	45.7	1.3	50	0	91	70	130	47.53	3.8(20)	
Toluene	47.9	1.3	50	0	96	67	130	49.24	2.8(20)	
Ethylbenzene	49.5	1.3	50	0	99	70	130	50.48	1.9(20)	
m,p-Xylene	52.3	1.3	50	0	105	69	130	53.36	2.0(20)	
o-Xylene	51.9	1.3	50	0	104	70	130	52.99	2.2(20)	
Surr: 1,2-Dichloroethane-d4	50.4		50		101	75	128			
Surr: Toluene-d8	50.6		50		101	80	120			
Surr: 4-Bromofluorobenzene	48.3		50		97	80	120			

Alpha Analytical, Inc.

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Date: *30-Apr-07*

QC Summary Report

Work Order: 07042325

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.

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

April 30, 2007

CLS Work Order #: CQD0873
COC #: None

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

Project Name: STR07042325

Enclosed are the results of analyses for samples received by the laboratory on 04/23/07 14:00. 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

04/30/07 11:29

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07042325 Project Number: [none] Project Manager: Reyna Vallejo	**CLS Work Order #: CQD0873** COC #: None

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR07042325-01A (MW-3) (CQD0873-01) Water Sampled: 04/23/07 05:17 Received: 04/23/07 14:00									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ03487	04/24/07	04/29/07	EPA 405.1	
STR07042325-02A (S-1) (CQD0873-02) Water Sampled: 04/23/07 05:54 Received: 04/23/07 14:00									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CQ03487	04/24/07	04/29/07	EPA 405.1	

CALIFORNIA LABORATORY SERVICES

04/30/07 11:29

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07042325 Project Number: [none] Project Manager: Reyna Vallejo	**CLS Work Order #: CQD0873** COC #: None

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR07042325-01A (MW-3) (CQD0873-01) Water Sampled: 04/23/07 05:17 Received: 04/23/07 14:00									
Plate Count	**27000**	100	CFU/mL	100	CQ03515	04/23/07	04/25/07	SM 9215	HT-1
STR07042325-02A (S-1) (CQD0873-02) Water Sampled: 04/23/07 05:54 Received: 04/23/07 14:00									
Plate Count	**110**	1	CFU/mL	1	CQ03515	04/23/07	04/25/07	SM 9215	HT-1

CALIFORNIA LABORATORY SERVICES

04/30/07 11:29

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07042325 Project Number: [none] Project Manager: Reyna Vallejo	**CLS Work Order #: CQD0873** COC #: None

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 CQ03487 - General										
Blank (CQ03487-BLK1)				Prepared: 04/24/07 Analyzed: 04/29/07						
Biochemical Oxygen Demand	ND	3.0	mg/L							
LCS (CQ03487-BS1)				Prepared: 04/24/07 Analyzed: 04/29/07						
Biochemical Oxygen Demand	189	3.0	mg/L	200		94.5	55-125			
LCS Dup (CQ03487-BSD1)				Prepared: 04/24/07 Analyzed: 04/29/07						
Biochemical Oxygen Demand	192	3.0	mg/L	200		96.0	55-125	1.57	24	

CALIFORNIA LABORATORY SERVICES

04/30/07 11:29

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks NV, 89431	Project: STR07042325 Project Number: [none] Project Manager: Reyna Vallejo	**CLS Work Order #: CQD0873** COC #: None

Notes and Definitions

HT-1	The sample was received outside of 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 : **5/2/2007** Date of Notice : **4/24/2007 9:34:53 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 : **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: **STR07042325** Date Received: **4/23/2007** Received by: Kathryn Murray

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 ☐	Cooler Temperature
Container/Temp Blank temperature in compliance (0-6°C)?	Yes ☑	No ☐	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 : BOD and HPC subbed to CLS by Sac office.

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 : STR07042325

Report Due By : 5:00 PM On : 02-May-07

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

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

EDD Required : **Yes**

Sampled by : C HILL

Report Attention : Gowri Kowtha
CC Report :

Job : USA 57
PO :

Client's COC # : 17590

Cooler Temp	Samples Received	Date Printed
4 °C	23-Apr-07	24-Apr-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	AMMONIA_W	ANIONS(A)_W	ANIONS(B)_W	BOD	HETEROTROPIC	ORTHOPHOS_W	Sample Remarks
STR07042325-01A	MW-3	AQ	04/23/07 05:17	8	2	6		FE+2	FE,Total	NH3	NO2,NO3,SO4	NO2,NO3,SO4	BOD	SUB	Ortho	BOD and HPC subbed to CLS by Sac office.
STR07042325-02A	S-1	AQ	04/23/07 05:54	8	2	6		FE+2	FE,Total	NH3	NO2,NO3,SO4	NO2,NO3,SO4	BOD	SUB	Ortho	BOD and HPC subbed to CLS by Sac office.
STR07042325-03A	MW-5	AQ	04/23/07 06:20	5	2	6										

Comments: Chain prelogged 4/23/07 in order for Sac office to sub BOD and HPC for samples -01 and -02 to CLS, rest of samples rec'd 4/24/07. Security seals intact. Frozen ice. Send copy of receipt checklist with final report. TOC pH=2 for samples-01 & -02. : Added Sulfide and Sulfate analysis for -01 & -02, per Tammy at Stratus.

	Signature	Print Name	Company	Date/Time
Logged in by:	K Murray	K Murray	Alpha Analytical, Inc.	4/24/07 1000

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 : STR07042325

Report Due By : 5:00 PM On : 02-May-07

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

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

EDD Required : **Yes**

Sampled by : C HILL

Report Attention : Gowri Kowtha
CC Report :

Job : USA 57
PO :

Client's COC # : 17590

Cooler Temp	Samples Received	Date Printed
4 °C	23-Apr-07	24-Apr-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 PHOSPHO RUS_W	SULFIDE	TDS	TOC_W	TPH/P_W	VOC_W			Sample Remarks
STR07042325-01A	MW-3	AQ	04/23/07 05:17	8	2	6		Total	Sulfide	X	TOC					BOD and HPC subbed to CLS by Sac office.
STR07042325-02A	S-1	AQ	04/23/07 05:54	8	2	6		Total	Sulfide	X	TOC					BOD and HPC subbed to CLS by Sac office.
STR07042325-03A	MW-5	AQ	04/23/07 06:20	5	2	6						GAS-C	BTEX/OXY/ 1,2-DCA/EDB_C			

Comments: Chain prelogged 4/23/07 in order for Sac office to sub BOD and HPC for samples -01 and -02 to CLS, rest of samples rec'd 4/24/07. Security seals intact. Frozen ice. Send copy of receipt checklist with final report. TOC pH=2 for samples-01 & -02. : Added Sulfide and Sulfate analysis for -01 & -02, per Tammy at Stratus.

	Signature	Print Name	Company	Date/Time
Logged in by:	K Murray	K Murray	Alpha Analytical, Inc.	4/24/07 1000

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:
Name Stantec ENV
Address 3330 Cameron Park Dr
City, State, Zip Cameron Pk
Phone Number 530 676 6004 Fax 530 676 6005

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

Samples Collected From Which State?
AZ ___ CA Y NV ___ WA ___
ID ___ OR ___ OTHER ___

17590

Page # 1 of 1

Client Name USA 57	P.O. #	Job #
Address	EMail Address	
City, State, Zip Oakland	Phone #	Fax #

Report Attention Golden

Required QC Level? I II III IV

EDD / EDF? YES X NO ___

Global ID # T0600101808

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by CHILL / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	CBOD - BHK	5 oxy 5	1,2 DCA	EDB	Methanol	Ethanol	5cc Column	REMARKS
0517	4/23/07	AR	STR07042325-01	MW-3	STD	N	10							X	
0535	"	"	02	S-1	"	N	10							X	BOD
0620	"	"	03	MW-5	"	N	5-V	X	X	X	X	X	X		Total Iron
															Ferrous Iron
															HPC, TOC
															TDS,
															NO_3, NO_2
															Total Phosphates
															Ammonia
															Ortho Phosphates
															BOD AND HPC
															Sub TO CLS
															#STR07042325

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by		CHILL	Stantec	4/23/07	1235
Received by		Lisa Bryla	ALPHA	4/23/07	1235
Relinquished by					
Received by		K Murray	AAI	4/24/07	0930
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

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.

CQDAS 73

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

SUB CHAIN-OF-CUSTODY RECORD

Work Order : STR07042325

*Please reference the Work Order number on all reports and invoices.
*Also please include the dates of analysis and detection limits.
Please send the report to Alpha Analytical (Sparks).
Attention To Reyna Vallejo (reyna@alpha-analytical.com).

Report Due By : 5:00 PM
On : 02-May-07

Subcontractor:
CLS Labs
3249 Fitzgerald Rd.
Suite 21
Rancho Cordova, CA 95742

TEL: (916) 638-7301
FAX: (916) 638-4510
Acct #:

EDD Required:
Yes

Required QC:
Final Rpt, MBLK, LCS, MS/MSD With Surrogates

23-Apr-07

Alpha's Sample ID	Client's Sample ID	Matrix	Collection Date	Type (#) of Bottles Preserved	Other	Requested Tests SM5210B	Standard Method 9215B	Sample Comments
STR07042325-01A	MW-3	Aqueous	04/23/07 05:17		OTHER (2)	Biochemical Oxygen Demand	Heterotropic Plate Count	
STR07042325-02A	S-1	Aqueous	04/23/07 05:54		OTHER (2)	Biochemical Oxygen Demand	Heterotropic Plate Count	

Comments:

		Date/Time			Date/Time
Relinquished by:	Lisa Boyle	4-23-07 1400	**Received by:**		
Relinquished by:			**Received by:**		3° 4-23-7 1700

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, Second Quarter 2007**
Submittal Date/Time:	**5/10/2007 2:07:24 PM**
Confirmation Number:	**9924574136**

Back to Main Menu

Logged in as STRATUS NOCAL (AUTH_RP)

CONTACT SITE ADMINISTRATOR

USA 57

Electronic Submittal Information

Your EDF file has been successfully uploaded!

Confirmation Number: 3984536349
Date/Time of Submittal: 5/8/2007 9:53:33 AM
Facility Global ID: T0600101808
Facility Name: USA PETROLEUM
Submittal Title: Groundwater Analytical Report for 4-9-7
Submittal Type: Remediation O & M Reports

USA 57

Electronic Submittal Information

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

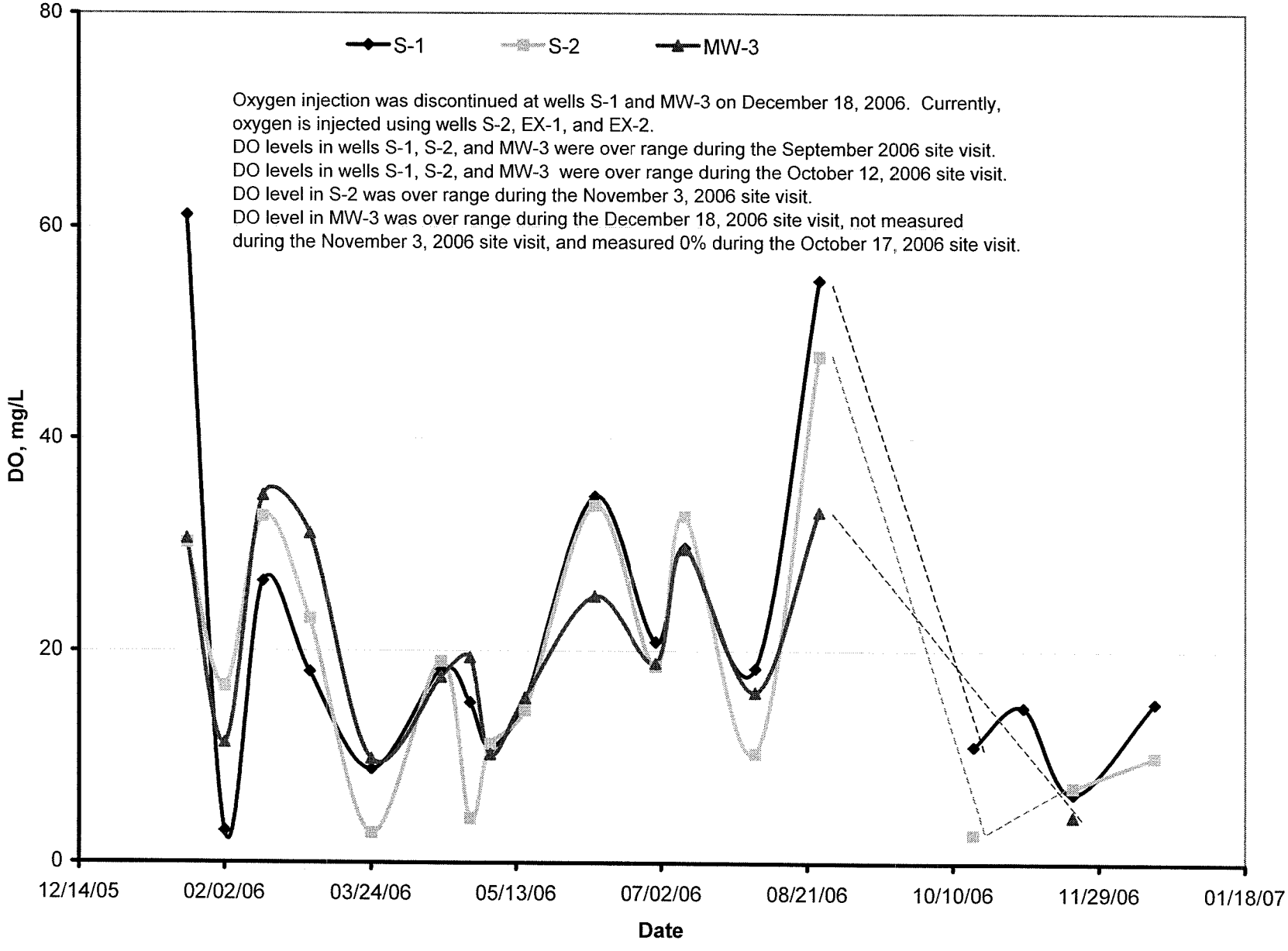
Your EDF file has been successfully uploaded!

Confirmation Number: 3396325230
Date/Time of Submittal: 5/11/2007 3:58:39 PM
Facility Global ID: T0600101808
Facility Name: USA PETROLEUM
Submittal Title: Groundwater Analytical Report for 4-23-7
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