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4:11 pm, May 02, 2012

Alameda County

Environmental Health

Mr. Mark Detterman

Alameda County Environmental Health Care Services Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Re: Former Olympic Service Station

1436 Grant Avenue San Lorenzo, California

ACEHD Case No. RO0000373, GeoTacker No. T0600102256

Dear Mr. Detterman:

attached document are true and correct to the best of my knowledge. I declare, under penalty of perjury, that the information and or recommendations contained in the

Sincerely,

George and Frida Jaber 1989 Family Trust

Philip Jaber, Trustee

Project No. 2115-1436-01 April 27, 2012

Alameda, California 94502-6577 Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Environmental Health Department Mr. Mark Detterman

Re: Quarterly Groundwater Monitoring Report – First Quarter 2012

Former Olympic Station

1436 Grant Avenue

San Lorenzo, California

ACEHD Case No. RO0000373, GeoTracker No. T0600102256

Dear Mr. Detterman:

676-6008. comments concerning this report, please contact Steve Carter at scarter@stratusinc.net or (530) at 1436 Grant Avenue in San Lorenzo, California (Figure 1). Jaber 1989 Family Trust, is submitting the attached report, for the former Olympic Station located Stratus Environmental, Inc. (Stratus), on behalf of Mr. Philip Jaber and the George and Frida If you have any questions or

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Stephen J. Cartes

Stephen J. Carter

Pfoject Manager Stephen J. Carter, P.G. THE OF CALIFORNIA No. 5577

0WI1

Principal Engineer S/Kowtha, P.E.

Attachment: Quarterly Groundwater Monitoring Report, First Quarter 2012

cc: Mr. Philip Jaber

Ms. Cherie McCaulou, RWQCB

QUARTERLY GROUNDWATER MONITORING REPORT FORMER OLYMPIC STATION

Facility Address: 1436 Grant Avenue, San Lorenzo, CA

Consulting Co. / Contact Person: Stratus Environmental, Inc. / Steve Carter, P.G

Consultant Project No: 2115-1436-01

Primary Agency/Regulatory ID No: Mark Detterman, Alameda County Environmental Health Department (ACEHD) / Case No. RO0000373

WORK PERFORMED THIS QUARTER (First Quarter 2012):

- . ` discussing the findings of the utility lateral survey. Stratus submitted a Verification of Subsurface Utilities Report (dated January 9, 2011) to ACEHD
- Ņ 2012 discussing the findings of site activities conducted during the ozone injection pilot test which was conducted from September 29, 2011 through October 31, 2011. Stratus prepared and submitted an Ozone Injection Pilot Test Report to ACEHD on February 21,
- လ On March 15, 2012, Stratus conducted quarterly groundwater monitoring and sampling activities. During this event, all wells (MW-1 through MW-4 and EX-1 through EX-3) were gauged for depth to water, evaluated for the presence of free product, purged and sampled. Following gauging, all wells were purged, and groundwater samples were collected. Field data sheets, sampling attached in Appendix D. Analytical results for sampled wells and depth to groundwater measurements have been uploaded to the State of California's GeoTracker database. Documentation of these data uploads is wells were purged, and groundwater samples were collected. Field data sheets, sampling procedures and laboratory analytical reports are included as Appendices A, B and C, respectively. these data uploads is

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2012):

- In accordance with the ACEHD letter of January 28, 2011, no groundwater monitoring or sampling activities will be conducted at the site during second quarter 2012.
- Ņ groundwater remedial alternatives for use at the site. A deadline of June 15, 2012 was established In a letter dated April 5, 2012, ACEHD personnel requested that a Feasibility Study/Corrective Action Plan (FS/CAP) be prepared and submitted which evaluates a minimum of three potential for submittal of the FS/CAP. Stratus will prepare and submit the FS/CAP as directed

Approximate Depth to Groundwater:	Is Free Product (FP) Present on Site:	Groundwater Sampling Date:	Frequency of Groundwater Monitoring and Sampling:	Frequency of Groundwater Monitoring:	Current Phase of Project:
5.70 to 6.58 ft bgs	No; Sheen noted in MW-4 and EX-3 (1Q12)	March 15, 2012	All Wells = (Semi-Annual 1 st and 3 rd)	All Wells = Semi-Annual (1 st & 3 rd)	Current Phase of Project: Soil and Water Investigation

Groundwater Flow Direction: Variable away from MW-1

Groundwater Gradient: 0.006 to 0.03 ft/ft

DISCUSSION:

construction details are summarized in Table 1, and historical groundwater elevation and analytical data are summarized in Table 2. Field data sheets, sampling procedures and laboratory analytical reports are included as Attachments A, B and C. GeoWell and analytical data has been uploaded to the GeoTracker the site. During this event, all wells were gauged for depth to water and evaluated for the presence of free product; sheen was noted in wells MW-4 and EX-3. Following gauging, all wells were purged and groundwater samples were analyzed at a state-certified analytical laboratory for gasoline range organics (GRO) by EPA Method SW/8015B and for benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method SW8260B. Well database and confirmation is included in Attachment D. On March 15, 2012, first quarter 2012 groundwater monitoring and sampling activities were conducted at

overall groundwater flow during the first quarter 2012 event was generally consistent with historical data northeasterly flow has not previously been observed at the site. southwest. While groundwater elevations rose in all wells between the fourth quarter 2011 through the first quarter 2012, the increase observed in well MW-1 (1.36 feet) was greater than the increase observed in well EX-2 (0.77 feet). This has resulted in localized flow toward the northeast. While the monitoring wells since the previous monitoring event (December 12, 2011). Depth-to-water measurements were converted to feet above mean sea level (MSL) and used to construct a groundwater elevation contour map (Figure 2). Groundwater flow beneath the site was generally variable away from At the time of the first quarter 2012 monitoring event, depth-to-water was measured between 5.70 and 6.58 feet below ground surface. Groundwater elevations increased between 0.77 and 1.42 feet in all monitoring wells since the previous monitoring event (December 12, 2011). Depth-to-water Historically, groundwater flow beneath the site has been toward the west-southwest and

Concentrations of GRO were reported in wells MW-1 (55 micrograms per liter [µg/L]), MW-4 (8,300 µg/L) and EX-2 (100 µg/L), and benzene was reported in wells MW-4 and EX-1 at concentrations of 530 µg/L and 2.6 µg/L, respectively. MTBE was reported in all wells sampled with a concentration range between 4.3 and 3,700 µg/L. Maximum GRO, benzene, and MTBE concentrations were all reported in well MW-4. Petroleum hydrocarbon concentrations in wells MW-1, MW-2, MW-3 and EX-1 through EX-3 are exhibited an increase relative to the previous quarter and MTBE concentrations are at an all time high. Figure 3 presents GRO, benzene and MTBE analytical results from the first quarter 2012 sampling either similar to or lower than their respective historical concentration. Concentrations in well MW-4

Post Pilot Study Observations

concentrations continue to exhibit a decreasing trend post- O_3 injection, and have now reached a historic low (but are still above the current Primary Maximum Contaminant Level [MCL]). GRO and BTEX concentrations in well MW-3 remain below laboratory reporting limits

concentrations have now reached a historic high. concentrations exhibit increasing trends, and have now reached near-historic highs. MTBE concentrations decreased during and after the pilot study, however, post-injection analytical data for MTBE exhibit the same increasing concentration trend observed for GRO and benzene. MTBE GRO and benzene concentrations in well MW-4 decreased during the pilot study, but post-O₃ injection

ATTACHMENTS:

- Table 1 Well Construction Details
- Table 2 Groundwater Elevation and Analytical Summary

- Figure 1
 Figure 2
 Figure 3
- Site Location Map
 Groundwater Elevation Contour Map (First Quarter 2012)
 Groundwater Analytical Summary (First Quarter 2012)
 Field Data Sheets
- Appendix A Appendix B Appendix C Appendix D
- Sampling and Analyses Procedures
 Laboratory Analytical Reports and Chain-of-Custody Documentation
 GeoTracker Electronic Submittal Confirmations

TABLE 1
WELL CONSTRUCTION DETAILS

Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

		Boring	Boring	Well	Well	Screen	Slot	Drilling	
	Date	Depth	Diameter	Diameter	Depth	Interval	Size	Method	Consultant
Boring/Well		(6)	4 1 1	4 .	(9)	(0			
I.D.		(feet)	(inches)	(inches)	(feet)	(feet bgs)	(inches)		
Groundwater .	Monitorin	g Wells							
MW-1	09/24/99	26.5	8	2	26.5	5 - 26.5	0.020	HSA	Conestoga-Rovers & Associates
MW-2	09/24/99	20.0	8	2	20	5-20	0.020	HSA	Conestoga-Rovers & Associates
MW-3	09/24/99	21.5	8	2	21	5-21	0.020	HSA	Conestoga-Rovers & Associates
MW-4	02/09/10	10.0	10	4	10	5-10	0.020	Air Knife	Conestoga-Rovers & Associates
Extraction We	ells								
EX-1	05/19/11	20.0	10	4	20	5-20	0.020	HSA	Stratus Environmental
EX-2	05/19/11	20.0	10	4	20	5-20	0.020	HSA	Stratus Environmental
EX-3	05/19/11	20.0	10	4	20	5-20	0.020	HSA	Stratus Environmental

HSA = Hollow Stem Auger

Page 1 of 1 STRATUS

TABLE 2 GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)*	Grouwater Elevation (ft msl)	TPHmo (μg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (μg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (μg/L)	DIPE (µg/L)	TAME (μg/L)	ETBE (µg/L)	TBA (μg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (μg/L)
MW-1	10/06/99	8.35	15.00	6.65	**	84	3,900	<25	<25	<25	<25	3,500	***			***		~~	
	01/13/00	7.90		7.10	**	<50	<1,300	18	<13	<13	<13	1,700	***						
	04/12/00	7.08		7.92		56	<1,000	66	<10	<10	<10	1,600		**			**		
	07/19/00	7.66		7.34		52	<1,000	<10	<10	<10	<10	1,200							**
	10/25/00 02/16/07	7.91 6.32		7.09 8.68		76	4,100	120	<25	<25	<25	6,100					***		
	03/01/07	5.88		9.12	<250	<50	<50	 <1.2	<1.2	 <1,2		70	-1.2						
	05/01/07	7.24	15.71	8.47	<250	<50	<50	<5.0	<5.0	<5.0	<1.2 <5.0	78 250	<1.2 <5.0	<1.2 <5.0	<1.2 <5.0	<12 <50	<120 <500	<1.2 <5.0	<1.2 <5.0
	08/01/07	7.77	15.71	7.94		<50	<50	<25	<25	<25	<25	520	<25	<25	<25	<250	<2,500	<25	<25
	11/01/07	7.71		8.00		<50	<50	<12	<12	<12	<12	460	<12	<12	<12	<120	<1,200	<12	<12
	02/01/08	5.71		10.00	***	<50	<50	<2.5	<2.5	<2.5	<2.5	110	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5
	05/02/08	7.52		8.19	<250	< 50	< 50	< 5.0	<5.0	< 5.0	< 5.0	240	< 5.0	<5.0	< 5.0	<20	<500	<5.0	<5.0
	08/01/08	8.02		7.69		<50	< 50	<10	<10	<10	<10	500	<10	<10	<10	<40	<1,000	<10	<10
	11/04/08	7.28		8.43		< 50	< 50	< 5.0	< 5.0	< 5.0	< 5.0	260	< 5.0	<5.0	<5.0	26	< 500	< 5.0	< 5.0
	08/11/09	8.08		7.63		<50	<50	< 5.0	< 5.0	<5.0	<5.0	270	< 5.0	< 5.0	<5.0	<20	< 500	< 5.0	<5.0
	02/03/10	6.14		9.57			< 50	< 0.5	< 0.5	< 0.5	< 0.5	39							
	05/18/10	7.09		8.62			-50								***				
	08/05/10	7.65		8.06			<50	< 0.5	<0.5	< 0.5	<0.5	350							
	02/04/11 06/03/11	7.20	19.60	8.51			<50	0.90	< 0.5	<0.5	<0.5	62			**	**			
	08/02/11	7.28 7,47	18.60	11.32 11.13			120	< 0.50	 -0.50	-0.50	 -0.50	1.00			**			***	
	09/29/11	7.83		10.77			120	~0.50	<0.50	<0.50 	<0.50	160					***		
	10/12/11	7.03		11.57															
	11/09/11	7.55		11.05															
	12/12/11	7.81		10.79			***												
	03/15/12	6.45		12.15		***	55	< 0.50	< 0.50	< 0.50	< 0.50	71							***
MW-2	10/06/99	7.87	14.46	6.59	<500	<50	70	< 0.5	< 0.5	<0.5	<0.5	11						**	
	01/13/00	7.46		7.00	<500	<50	<50	< 0.5	< 0.5	< 0.5	< 0.5	6.2							
	04/12/00	6.67		7.79	<500	<50	<50	< 0.5	< 0.5	<0.5	<0.5	39							
	07/19/00 10/25/00	7.23		7.23	<500	<50	<1,000	<10	<10	<10	<10	990					***		
	02/16/07	7.52 5.89		6.94 8.57	<500	<50	370	<2.5	<2.5	<2.5	<2.5	690		~~					
	03/01/07	5.45		9.01	<250	<50	<50	<0.5	<0.5	<0.5	<0.5	 9.8	<0.5	<0.5	<0.5	<5.0	<50	<0.5	<0.5
	05/01/07	6.83	15.17	8.34	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	120	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0
	08/01/07	7.35	10111	7.82		<50	<50	<5.0	< 5.0	<5.0	<5.0	130	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0
	11/01/07	7.27		7.90		<50	< 50	<0.5	< 0.5	< 0.5	< 0.5	19	< 0.5	< 0.5	<0.5	<5.0	<50	<0.5	<0.5
	02/01/08	5.25		9.92		< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	3.3	< 0.5	< 0.5	< 0.5	< 2.0	<50	< 0.5	< 0.5
	05/02/08	7.12		8.05		< 50	< 50	<2.5	<2.5	<2.5	< 2.5	83	<2.5	<2.5	< 2.5	<10	<250	<2.5	<2.5
	08/01/08	7.59		7.58	***	<50	< 50	<1.0	<1.0	<1.0	0.1>	52	<1.0	<1.0	<1.0	<4.0	<100	<1.0	<1.0
	11/04/08	6.84		8.33		80	< 50	< 0.5	< 0.5	< 0.5	< 0.5	5.9	< 0.5	< 0.5	< 0.5	< 2.0	< 50	< 0.5	< 0.5
	08/11/09	7.65		7.52		< 50	<50	< 0.5	< 0.5	< 0.5	< 0.5	9.4	< 0.5	< 0.5	< 0.5	< 2.0	< 50	< 0.5	< 0.5
	02/03/10	5.75		9.42			<50	< 0.5	<0.5	< 0.5	< 0.5	0.86							
	05/18/10	6.67		8.50															
	08/05/10	7.25		7.92		~~	<50	<0.5	< 0.5	<0.5	<0.5	57							
	02/04/11	6.79	19.00	8.38		***	<50	< 0.50	< 0.50	< 0.50	< 0.50	4.4					**		
	06/03/11 08/02/11	6.82 7.06	18.00	11.18 10.94	**		<50	<0.50	<0.50	-0.50	 -0.50	46	***						
	09/29/11	7.06		10.94			<50 <50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	46 41	<1.0	<1.0	 <1.0	<10	**		<1.0
	10/12/11	6.62		11.38			<50 <50	< 0.50	< 0.50	< 0.50	<0.50	37	<1.0	<1.0	<1.0 <1.0	<10 <10			<1.0 <1.0
	11/09/11	7.11		10.89			<50	< 0.50	< 0.50	< 0.50	< 0.50	33	<1.0	<1.0	<1.0	<10			<1.0
	12/12/11	7.35		10.65			***												
	03/15/12	5.98		12.02			<50	<0.50	<0.50	< 0.50	< 0.50	4.3							

TABLE 2 GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)*	Grouwater Elevation (ft msl)	TPHmo (µg/L)	TPHd (µg/L)	GRO (μg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (μg/L)	DIPE (µg/L)	TAME (μg/L)	ETBE (µg/L)	TBA (μg/L)	Ethanol (μg/L)	EDB (µg/L)	1,2-DCA (μg/L)
MW-3	10/06/99	7.90	14.41	6.51		300	3,900	900	89	160	560	790			77		~~		
	01/13/00	7.50		6.91		210	740	110	4.8	35	18	290		~~				**	
	04/12/00	6.61		7.80		640	2,200	650	9.7	180	24	140				**	M1.10		
	07/19/00	7.24		7.17		270	2,700	420	<2.5	160	<2.5	99			~~		***		
	10/25/00	7.52		6.89		150	710	180	<2.5	24	<2.5	71		~-	~~				
	02/16/07	5.90		8.51											**				
	03/01/07	5.44		8.97	<250	< 50	82	20	<1.7	<1.7	<1.7	100	<1.7	<1.7	<1.7	<17	<170	<1.7	<1.7
	05/01/07	6.87	15.13	8.26	<250	< 50	< 50	< 5.0	< 5.0	< 5.0	<5.0	88	< 5.0	< 5.0	< 5.0	< 50	< 500	< 5.0	< 5.0
	08/01/07	7.40		7.73		< 50	130	12	<2.5	<2.5	<2.5	98	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5
	11/01/07	7.35		7.78		< 50	77	<2.5	<2.5	<2.5	<2.5	68	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5
	02/01/08	5.28		9.85		<50	<50	<2.5	<2.5	<2.5	<2.5	97	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5
	05/02/08	7.15		7.98		<50	68	2.3	<1.7	<1.7	<1.7	86	<1.7	<1.7	<1.7	7.2	<170	<1.7	<1.7
	08/01/08	7.66		7.47		<50	85	3.5	<1.0	<1.0	<1.0	66	<1.0	<1.0	<1.0	7.2	<100	<1.0	<1.0
	11/04/08	6.96		8.17		< 50	<50	<1.0	<1.0	<1.0	<1.0	40	<1.0	<1.0	<1.0	<4.0	<100	<1.0	<1.0
	08/11/09	7.72		7.41		< 50	110	33	< 0.50	< 0.50	< 0.50	28	< 0.50	< 0.50	< 0.50	<2.0	<50	< 0.50	< 0.50
	02/03/10 05/18/10	5.72		9.41			<50	0.55	< 0.50	< 0.50	< 0.50	25	**	***					
		6.73		8.40			450	110	2.2	0.76	0.64						**		
	08/05/10 02/04/11	7.31		7.82			450	110	2.2	0.76	0.64	32	***	mh.m.					
	06/03/11	6.80 6.87	17.95	8.33			220[1]	64	1.6	<0.5	< 0.5	36							
	08/02/11	7.07	17.95	11.08 10.88	**		200 <50	26 2.5	< 0.50	< 0.50	<0.50	34		***					
	09/29/11	7.43		10.52			<50	< 0.50	<0.50 <0.50	< 0.50	<0.50 <0.50	36	-1.0	-1.0		-10	***		
	10/12/11	6.67		11.28			<50	0.91	< 0.50	<0.50 <0.50	< 0.50	28 32	<1.0	<1.0 <1.0	<1.0	<10			<1.0
	11/09/11	7.16		10.79			<50	1.8	< 0.50	< 0.50	< 0.50	31	<1.0	<1.0	<1.0	<10			<1.0
	12/12/11	7.42		10.73							~0.30		<1.0	~1.0	<1.0	<10			<1.0
	03/15/12	6.21		11.74			<50	<0.50	< 0.50	< 0.50	<0.50	24							
MW-4	05/18/10	6.68	15.15	8.47			13,000	620	36	170	12	1,200				W 40			
	08/05/10	7.25		7.90			9,200	780	13	230	4.3	1,800							
	02/04/11	6.71		8.44	**		4,800[1]	350	7.1	23	< 2.5	440							
	06/03/11	6.78	17.99	11.21			4,700	350	2.6	19	<2.5[2]	670							
	08/02/11	7.01		10.98			4,700	290	<2.5[2]	12	<2.5[2]	970							
	09/29/11	7.37		10.62			8,700	590	<5.0[2]	34	<5.0[2]	1,500	<10[2]	28	<10[2]	<100[2]			<10[2]
	10/12/11	6.61		11.38			1,500	160	<1.0[2]	1.8	<1.0[2]	1,300	<2.0[2]	8.6	<2.0[2]	42			<2.0[2]
	11/09/11	7.18		10.81		~~	2,800	190	1.4	9.6	1.3	720	<2.0[2]	3.6	<2.0[2]	270			<2.0[2]
	12/12/11	7.36		10.63	**		3,800	300	2.4	11	2.5	1,200		**					
	03/15/12	6.15		11.84			8,300	530	<5.0[2]	120	72	3,700			***				***

TABLE 2 GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)*	Grouwater Elevation (ft msl)	TPHmo (μg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (μg/L)	DIPE (μg/L)	TAME (μg/L)	ETBE (µg/L)	TBA (μg/L)	Ethanol (μg/L)	EDB (µg/L)	1,2-DCA (μg/L)
EX-1	06/03/11	6.96	18.14	11.18			76	8.3	<0.50	< 0.50	0.99	37							
	08/02/11	7.20		10.94		***	420	37	0.65	3.5	2.9	32							
	09/29/11	7.53		10.61			150	13	< 0.50	3.2	1.1	23	<1.0	1.2	<1.0	<10			<1.0
	10/12/11	6.63		11.51			180	23	0.51	2.8	0.97	27	<1.0	1.0	<1.0	<10			<1.0
	11/09/11	7.28		10.86			< 50	4.3	< 0.50	< 0.50	< 0.50	34	<1.0	<1.0	<1.0	<10		***	<1.0
	12/12/11	7.50		10.64			520	32	1.3	13	5.58	20		~~	***				
	03/15/12	6.19		11.95	ar av		< 50	2.6	< 0.50	< 0.50	< 0.50	8.4				~~			
EX-2	06/03/11	6.81	18.14	11.33			760	<1.5[2]	<1.5[2]	<1.5[2]	<1.5[2]	1,100							
	08/02/11	7.03		11,11		~~	920	8.7	<1.0[2]	<1.0[2]	<1.0[2]	920				**			
	09/29/11	7.37		10.77						**		-		**					
	10/12/11	6.65		11.49									••				on on		
	11/09/11	7.08		11.06															
	12/12/11	7.35		10.79			590	5.6	<1.0[2]	<1.0[2]	<1.0[2]	920			***				
	03/15/12	6.58		11.56			100	< 0.50	< 0.50	< 0.50	< 0.50	130				***			
EX-3	06/03/11	6.55	17.63	11.08			95	0.93	< 0.50	< 0.50	< 0.50	78						W 05	
	08/02/11	6.82		10.81			130	1.5	< 0.50	< 0.50	< 0.50	150							
	09/29/11	7.15		10.48															
	10/12/11	6.37		11.26															
1	11/19/11	6.89		10.74			~~												
	12/12/11	7.12		10.51			100	2.4	< 0.50	< 0.50	< 0.50	84							
	03/15/12	5.70		11.93	**		<50	< 0.50	< 0.50	< 0.50	< 0.50	30	**						

Legend/Key:

NM = Not measured

GRO = Gasoline Range Organics C6-C12

MTBE = Methyl tertiary butyl ether

[1] Weakly modified or unmodified gasoline is significant.

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

ft msl = feet above mean sea level

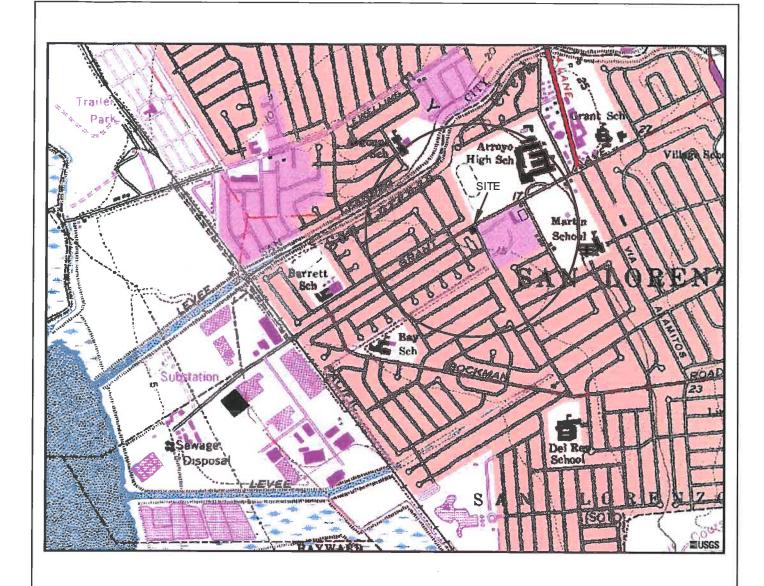
 $\mu g/L = micrograms per liter$

*Well elevations and locations surveyed by Morrow Surveying on June 15, 2011.

Analytical Methods:

GRO and BTEX analyzed according to EPA Method 8021B/8015Bm.

MTBE analyzed according to EPA Method SW8260B



GENERAL NOTES: BASE MAP FROM U.S.G.S. SAN LORENZO, CA. 7.5 MINUTE TOPOGRAPHIC PHOTOREVISED 1978









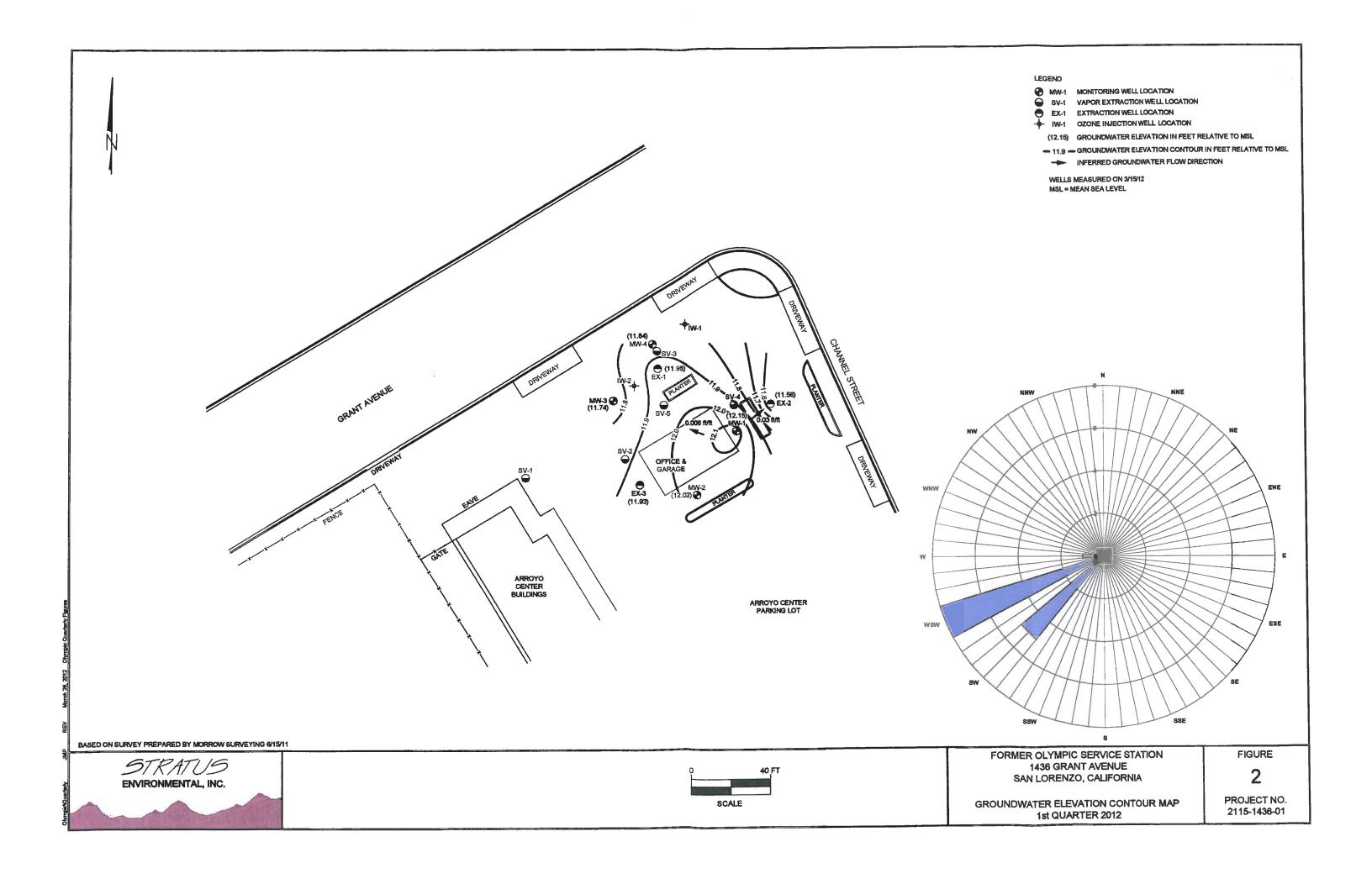
FORMER OLYMPIC SERVICE STATION 1436 GRANT AVENUE SAN LORENZO, CALIFORNIA

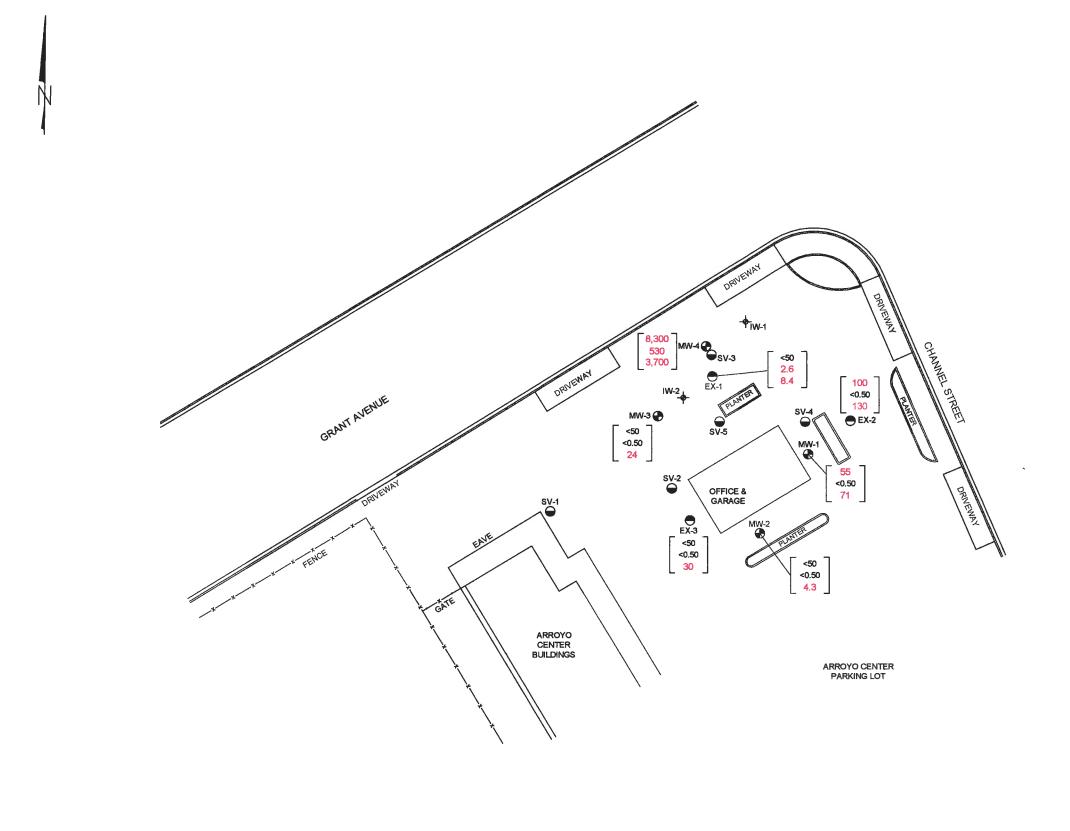
SITE LOCATION MAP

FIGURE

I OJECT

PROJECT NO. 2115-1436-01





LEGEND

→ MW-1 MONITORING WELL LOCATION SV-1 VAPOR EXTRACTION WELL LOCATION EX-1 EXTRACTION WELL LOCATION OZONE INJECTION WELL LOCATION

GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN μg/L BENZENE CONCENTRATION IN μg/L <0.50 71

METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L

WELLS SAMPLED ON 3/15/12 GRO ANALYZED BY EPA METHOD 8015B MTBE & BENZENE ANALYZED BY EPA METHOD 8260B

BASED ON SURVEY PREPARED BY MORROW SURVEYING 6/15/11

STRATUS ENVIRONMENTAL, INC.



FORMER OLYMPIC SERVICE STATION 1436 GRANT AVENUE SAN LORENZO, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY
1st QUARTER 2012

FIGURE 3

PROJECT NO. 2115-1436-01

APPENDIX A FIELD DATA SHEETS



2

6

1.4

3

Site Address	1436 Grant Avenue
	San Lorenzo
Sampled by:	Shane Edmunds
Signature	Show & ded

Site Number	Olympic Jaber	
Project Number	2115-1436-01	
Project PM	Steve Carter	
DATE	3-15-12	

	W	ater Level D	ata			Purge V	olume Calc	ulations			Purge	Metho	d	S	ample Reco	ord	Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
MW-I	0753		6.45	23.20	16.75	2	0.5	8.38	8.50	in the second second second	又		***************************************	6.50	MW-I	0917	2.13
MW-Z	0809		5.98	18.36	12.38	2	0.5	6.19	6.25		X			6.00	MW-Z	0849	4.65
MW-3	0806		6.21	18.86	12.65	2	0.5	6.33	6.50		义			6.22	Mw-3	1130	2.98
MW-4	0801	Sheen	6.15	9.32	3.17	4	2.0	6.34	5.50	No.	X			6.73	MW-4	1244	2.74
EX-1	1000		6.19	19.80	13.61	4	2.0	27.22	27.25		X			6.30	EX-1	1031	3.04
EX-2	0757	4.	6.58	19.31	12.73	4	2.0	25.46	15.50		×	ļ		6.62	EX-2	1103	252
Ex-3	0816	Sheen	5.70	19.80	14.10	Ч	2-0	28.20	28,50		X			5.81	EX-3	0950	2.51
											ļ						
											ļ	ļ					
											<u> </u>						
											-						
										-							
											-						

Multiplier 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4 Please refer to groundwater sampling field procedures
pH/Conductivity/temperature Meter - Oakton Model PC-10
DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE

pH 3-12 Su

Conductivity

DO



Site Address 1436 Grant Ave
City San Lorenzo
Sampled By: Shane Edmunds
Signature X

Site Number Olympic Jaber
Project Number 2115-1436-01
Project PM S. Carter
DATE 3-/5-/2

				builde stob tittle	7	0.5				7
						ORB			purae stan time	D Ta
				time	MANUAL OF COLUMN	790	7.08	7.0	222	time
				time	かった		* William Bearing and the control of	7,44		time
				time	3,5	965	6.82	6.5	三年5	time
				time	B	997	6.97	16.3	- Contraction of the Contraction	time
d gallons	cond	PΗ	Temp C		gallons	cond	PΠ	Temp C		
~ Z	Odor		SEACO-O-Pariety control of the seaco-o-	Purge start time	✓ Z	Odor			Purge start time	Purg
				Well ID				Carrie	TE NE	Well ID
-21	ORP			purge stop time	-23	ORP *			purge stop time	purg
_				time						time
	1069	7.17	18.5	time 1128	8.5	1662	7,26	18,3		time
3,5	1891	7.14	18.3	time //22	13.0	1057	7.24	18,5	1053	time
\dashv	947	7.15	7.4	time ///6	Ø	1043	7.35	18,5	1046	time
d gallons	cond	Hd	Temp C		gallons	cond	рН	Temp C		
3) z	Odor			Purge start time	⟨₹) Z	Odor			Purge start time	Pur
			W-3	Well iD MW				2	Well ID TX	Wei
ידי ו	ORP			purge stop time	19	ORP			purge stop time	purg
				time					Ф	time
2	= 12	7,21	1.81	time 1027	28.5	1062	7.37	17.7	0947	time
5 14.0	= 15	7.24	17.8	time /0/7	14.5	1070	7,29	17.8	e 0937	time
_	260	7.27	<i>17.4</i>	time /00%	B	1060	7.23	17.5		time
nd gallons	cond	рН	Temp C		gallons	cond	PH	Temp C		
97 -{>) N	Odor			Purge start time	(v) N	Odor			Purge start time	Pur
				Mell ID EX				W	Well ID 🛱	We
36	ORP			purge stop time	-10	ORP .			purge stop time	Pi,
_		(time					ē	time
7	15	7.23	17.5	time 0915	6,25	998	7.14	17.8	9480	time
2	8411	7.27	17.6	time <i>090</i> 8	3.25	897	6.92	18.0	e 5840	time
7	37.	7.17	2.31	time <i>O</i> O	Ø	4.47	6.67	-	e 0834	time
gallo	cond	PH	Temp C		gallons	cond	PΞ	Temp C		
or Y (N)	Odor			Purge start time	~ ②	Odor			Purge start time	D U
			i	Well ID MW				v-2	Well ID MW	We

APPENDIX B SAMPLING AND ANALYSES 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

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

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

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



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: Steve Carter Phone: (530) 676-6008 Fax: (530) 676-6005 Date Received: 03/16/12

Job:

2115-1436-01/Olympic Jaber

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

		Parameter	Concentration	Reporting	Date	Date
Client ID:	MW-1			Limit	Extracted	Analyzed
Lab ID :	STR12031660-01A	TPH-P (GRO)	55	50 μg/L	03/19/12	03/19/12
Date Sampled	03/15/12 09:17	Methyl tert-butyl ether (MTBE)	71	0.50 μg/L	03/19/12	03/19/12
		Benzene	ND	0.50 μg/L	03/19/12	03/19/12
		Toluene	ND	0.50 μg/L	03/19/12	03/19/12
		Ethylbenzene	ND	0.50 μg/L	03/19/12	03/19/12
		m,p-Xylene	ND	0.50 μg/L	03/19/12	03/19/12
		o-Xylene	ND	0.50 μg/L	03/19/12	03/19/12
Client ID:	MW-2	·	.,,,	P.B.	00///12	03/1 // 12
Lab ID:	STR12031660-02A	TPH-P (GRO)	ND	50 μg/L	03/19/12	03/19/12
Date Sampled	03/15/12 08:49	Methyl tert-butyl ether (MTBE)	4.3	0.50 μg/L	03/19/12	03/19/12
		Benzene	ND	0.50 μg/L	03/19/12	03/19/12
		Toluene	ND	0.50 μg/L	03/19/12	03/19/12
		Ethylbenzene	ND	0.50 μg/L	03/19/12	03/19/12
		m.p-Xylene	ND	0.50 μg/L	03/19/12	03/19/12
		o-Xylene	ND	0.50 μg/L	03/19/12	03/19/12
Client ID:	MW-3	•		**** PE =		02.12.12
Lab ID:	STR12031660-03A	TPH-P (GRO)	ND	50 μg/L	03/19/12	03/19/12
Date Sampled	03/15/12 11:30	Methyl tert-butyl ether (MTBE)	24	0.50 μg/L	03/19/12	03/19/12
		Benzene	ND	0.50 μg/L	03/19/12	03/19/12
		Toluene	ND	0.50 μg/L	03/19/12	03/19/12
		Ethylbenzene	ND	0.50 μg/L	03/19/12	03/19/12
		ın.p-Xylene	ND	0.50 μg/L	03/19/12	03/19/12
		o-Xylene	ND	0.50 μg/L	03/19/12	03/19/12
Client ID:	MW-4					
Lab ID:	STR12031660-04A	TPH-P (GRO)	8,300	1,000 µg/L	03/19/12	03/19/12
Date Sampled	03/15/12 12:44	Methyl tert-butyl ether (MTBE)	3,700	5.0 μg/L	03/19/12	03/19/12
		Benzene	530	5.0 μg/L	03/19/12	03/19/12
		Toluene	ND V	5.0 μg/L	03/19/12	03/19/12
		Ethylbenzene	120	5.0 μg/L	03/19/12	03/19/12
		m,p-Xylene	72	5.0 μg/L	03/19/12	03/19/12
		o-Xylene	ND V	5.0 μg/L	03/19/12	03/19/12
Client ID:	EX-1					
Lab ID:	STR12031660-05A	TPH-P (GRO)	ND	50 μg/L	03/19/12	03/19/12
Date Sampled	03/15/12 10:31	Methyl tert-butyl ether (MTBE)	8.4	0.50 µg/L	03/19/12	03/19/12
		Benzene	2.6	0.50 μg/L	03/19/12	03/19/12
		Toluene	ND	0.50 μg/L	03/19/12	03/19/12
		Ethylbenzene	ND	0.50 μg/L	03/19/12	03/19/12
		m,p-Xylene	ND	0.50 µg/L	03/19/12	03/19/12
		o-Xylene	ND	0.50 μg/L	03/19/12	03/19/12



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Client ID: EX-2				
Lab ID: STR12031660-06	Thu b/Cho			
		100	50 μg/L	03/19/12
Date Sampled 03/15/12 11:03	Methyl tert-butyl ether (MTBE)	130	0.50 μg/L	03/19/12
	Benzene	ND	0.50 μg/L	03/19/12
	Toluene	ND	0.50 μg/L	03/19/12
	Ethylbenzene	ND	0.50 µg/L	03/19/12
	m,p-Xylene	ND	0.50 µg/L	03/19/12
	o-Xylene	ND	0.50 µg/L	03/19/12
Client ID: EX-3				
ab ID: STR12031660-07	TPH-P (GRO)	ND	50 μg/L	03/19/12
Pate Sampled 03/15/12 09:50	Methyl tert-butyl ether (MTBE)	30	0.50 µg/L	03/19/12
	Benzene	ND	0.50 μg/L	03/19/12
	Toluene	ND	$0.50 \ \mu g/L$	03/19/12
	Ethylbenzene	ND	0.50 μg/L	03/19/12
	m,p-Xylene	ND	0.50 μg/L	03/19/12
	o-Xylene	ND	0.50 μg/L	03/19/12

Gasoline Range Organics (GRO) C4-C13

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

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Kandy Saulner Walter Atminus

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 · Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 · info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise. Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

Report Date



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VOC Sample Preservation Report

Work Order: STR12031660

Job:

2115-1436-01/Olympic Jaber

Alpha's Sample ID	Client's Sample ID	Matrix	рН
12031660-01A	MW-1	Aqueous	2
12031660-02A	MW-2	Aqueous	2
12031660-03A	MW-3	Aqueous	2
12031660-04A	MW-4	Aqueous	2
12031660-05A	EX-1	Aqueous	2
12031660-06Λ	EX-2	Aqueous	2
12031660-07A	EX-3	Aqueous	2

3/23/12

Report Date



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

Date: 20-Mar-12	QC Summary Report									
Method Blank File ID: 12031904.D Sample ID: MBLK MS08W0319B Analyte	Units : µg/L Result	Type: N	B Run ID: M	est Code: E atch ID: MS SD_08_120	08W03 ¹ 319A	9B	Analysis Date Prep Date:	12031660 b: 03/19/2012 11:21 03/19/2012 11:21 ofVal %RPD(Limit)	Qual	
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	ND 9.98 11.3 7.18	50			99.8 113 72	70 70 70 70	130 130 130	AVEN JOHN DIELININ	- Quai	
Laboratory Control Spike File ID: 12031903.D Sample ID: GLCS MS08W0319B Analyte	Units : µg/L Result	Type: L	Bar Run ID: M	est Code: E atch ID: MS SD_08_120	08W031 319A	9B	Analysis Date Prep Date:	o: 03/19/2012 10:58 03/19/2012 10:58 ofVal %RPD(Limit)	Qual	
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	388 9.43 10.3 8.9	50		Оринстии	97 94 103 89	70 70 70 70 70	130 130 130 130 130	ivai 76HFD(LIIIII)	Quai	
Sample Matrix Spike File ID: 12031919.D Sample ID: 12031660-01AGS Analyte	Units : µg/L Result	Type: M	Ban ID: M:	est Code: E atch ID: MS SD_08_120 SnkRefVal	08W031 319A	9B	Analysis Date Prep Date:	:: 03/19/2012 17:21 03/19/2012 17:21 fVal %RPD(Limit)	Qual	
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	1980 48.5 50 43.4	250		54.98	96 97 100 87	51 70 70 70	144 130 130 130	ivai 76 ii D(Liiiii)		
Sample Matrix Spike Duplicate File ID: 12031920.D Sample ID: 12031660-01AGSD Analyte	Units : µg/L Result	Type: M	Ba Run ID: M S	est Code: El atch ID: MS0 SD_08_1203 SpkRefVal	08W031 319A	9B	Analysis Date Prep Date:	: 03/19/2012 17:44 03/19/2012 17:44 fVal %RPD(Limit)	Qual	
TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	2050 50.3 49.7 43.7	250	2000 50 50 50	54.98	100 101 99 87	51 70 70 70 70	144 198 130 130 130	**************************************		

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.



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

Date: 20-Mar-12	QC Summary Report										
Method Blank File ID: 12031904.D		. 00/40/0540 44 53									
	11.9	_		atch ID: MS		19A		e: 03/19/2012 11:21			
	Units : µg/L	1	Run ID: M	SD_08_120	319A		Prep Date:	03/19/2012 11:21			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDR€	efVal %RPD(Limit)	Qua		
Methyl tert-butyl ether (MTBE)	ND	0.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	0.5									
o-Xylene	ND	0.5									
Surr: 1,2-Dichloroethane-d4	9.98		10		99.8	70	130				
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	11.3		10		113	70	130				
	7.18	T	10		72	70	130	and the second s			
Laboratory Control Spike File ID: 12031902,D		Type: LC		est Code: El							
			В	atch ID: MS(98W03	19A	Analysis Date	e: 03/19/2012 10:34			
Sample ID: LCS MS08W0319A	Units : µg/L	F	Run ID: M	SD_08_1203	319A		Prep Date:	03/19/2012 10:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRe	efVal %RPD(Limit)	Qua		
Methyl tert-butyl ether (MTBE)	11.7	0.5	10		117	65	140				
Benzene	10.7	0.5	10		107	70	130				
Toluene	9.84	0.5	10		98	80	120				
Ethylbenzene	11	0.5	10		110	80	120				
m,p-Xylene	11.3	0.5	10		113	70	130				
o-Xylene Surr: 1,2-Dichloroethane-d4	12	0.5	10		120	70	130				
Surr: Toluene-d8	10.5		10		105	70	130				
Surr: 4-Bromofluorobenzene	9.42 9.22		10 10		94 92	70 70	130 130				
Sample Matrix Spike		Type: MS		est Code: E F							
File ID: 12031917.D		e: 03/19/2012 16:3 4									
Sample ID: 12031660-01AMS	Units : µg/L			atch ID: MS0 SD_08_1203		1071					
Analyte	Result	PQL				LCL(ME)	Prep Date: UCL(ME) RPDRe	03/19/2012 16:34 efVal %RPD(Limit)	Qua		
Methyl tert-butyl ether (MTBE)	121	1.3	50	70.61			***************************************	Trai ford D(ERME)	Qua		
Benzene	47.8	1.3	50	70.61	101 96	47 59	150 138				
Toluene	42.3	1.3	50	0	85	68	130				
Ethylbenzene	49.1	1.3	50	0	98	68	130				
m,p-Xylene	49.7	1.3	50	ŏ	99	68	131				
o-Xylene	52.2	1.3	50	0	104	70	130				
Surr: 1,2-Dichloroethane-d4	56.5		50		113	70	130				
Surr: Toluene-d8	45.2		50		90	70	130				
Surr: 4-Bromofluorobenzene	45.5		50		91	70	130				
Sample Matrix Spike Duplicate		Type: MS	D Te	est Code: EF	A Met	hod SW82	260B				
File ID: 12031918.D			Ba	itch ID: MS0	8W03	19A	Analysis Date	: 03/19/2012 16:58			
Sample ID: 12031660-01AMSD	Units : µg/L	F	Run ID: MS	SD_08_1203	19A		Prep Date:	03/19/2012 16:58			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(MF)	UCL(ME) RPDRe		Qual		
Methyl tert-butyl ether (MTBE)	121	1.3		·							
Benzene	48.7	1.3	50 50	70.61 0	100 97	47 59	150 121				
Toluene	43.4	1.3	50	0	97 87	59 68	138 47.8 130 42.3	, ,			
Ethylbenzene	49.3	1.3	50	0	99	68	130 42.3				
m,p-Xylene	50.7	1.3	50	0	101	68	131 49.7				
o-Xylene	53.7	1.3	50	0	107	70	130 52.1				
Surr: 1,2-Dichloroethane-d4	56.1		50	J	112	70	130	2.8(20)			
Surr: Toluene-d8	45.4		50		91	70	130				
Surr: 4-Bromofluorobenzene	44.8		50		90	70	130				
Comments:											

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.

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

Report Attention Phone Number **EMail Address** Steve Carter (530) 676-6008 x scarter@stratusinc.net

EDD Required: Yes

0°C

Sampled by: Shane Edmunds

Cooler Temp Samples Received

WorkOrder: STR12031660

Report Due By: 5:00 PM On: 23-Mar-12

16-Mar-12 16-Mar-12

Page: 1 of 1

Date Printed

Client:

Stratus Environmental 3330 Cameron Park Drive Suite 550

Cameron Park, CA 95682-8861

PO:

Client's COC #: 59266

= Final Rnt MRLK LCS MS/MSD With Surrogates

Job: 2115-1436-01/Olympic Jaber

Alpha	Client		Collection	No. of	Bottles	;	TPH/P_W	VOC_W				
Sample ID	Sample ID	Matri	ix Date	Alpha	Sub	TAT						Sample Remarks
STR12031660-01A	MVV-1	AQ	03/15/12 09:17	3	0	5	GAS-C	BTXE/M_C				
STR12031660-02A	MW-2	AQ	03/15/12 08:49	3	0	5	GAS-C	BTXE/M_C				
STR12031660-03A	MW-3	AQ	03/15/12 11:30	3	0	5	GAS-C	BTXE/M_C				
STR12031660-04A	MW-4	AQ	03/15/12 12:44	3	0	5	GAS-C	BTXE/M_C	The second secon		Total Carlos	
STR12031660-05A	EX-1	AQ	03/15/12 10:31	3	0	5	GAS-C	BTXE/M_C				
STR12031660-06A	EX-2	AQ	03/15/12 11:03	3	0	5	GAS-C	BTXE/M_C		3		
STR12031660-07A	EX-3	AQ	03/15/12 09:50	3	0	5	GAS-C	BTXE/M_C				

Comments:

Security seals intact. Frozen ice.:

Date/Time **Print Name** Company Signature Alpha Analytical, Inc. Logged in by:

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

D:II:_	a lafa									_							5926	6
Compo	g mo	rmatic	tratus Environment		Alpha Analytical, Inc.							ecte	d Fron	State? 4 DOD Site	The same and the			
Company Name Stratus Environmental Attn: Steve Carter Address 3330 Caneron Park Dr #550						255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778						OR			ER.	VV A	Page # 0	•
Addres	ss 3	330 0	Caneron Park Dy &	<u>+550</u>		Phone (775)	355-1044										1 uge #	<i>//</i>
City, S	tate, Zir	Can	neron Park, CA			Fax (775) 35	55-0406				\int						7	
Phone Number 516-676-660 4 Fax												Д	nalys	ses Required			/	
Consultant / Client Name Olympic Laber Address				Job # 2115-1436-61 Job Name									7			7	Data Validation	
		136 (arant Ave	Name: Scott Carfer Name:								1 VSE						
City, State, Zip Sun Lorenzo, Ca				Email:							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		/	/			EDD/EDF? YES	NO
Time Date Sampled Sampled Sampled Sampled Date See Key Below Lab ID Number (Use Only)				Phone: Mobile:							BIEX		/	/ /		/	Global 10 # 10600 10 2	256
Sample	Sample	Below	Lab ID Number (Use Only)	Samp	ele Description		TAT	Field Filtered	# Containers**	-\B\-	12	/	/ ,	/ /		/ /	REMARKS	
0917	3/15) AQ	STRR031660-014	Mw-1			STD		34	X	X							***************************************
0849	1	1	72A	MW-Z					1	1								
1130			63A	MW-3							T						*****	
1244			OHA	mw-4														
1031			05A	EX-1	1 to the second power power constraints													
1103			MeA	Ex-2					- di		71						,	
0950	1-17-	V	OFA	EX-3	· · · · · · · · · · · · · · · · · · ·		\forall		₩	14	7							

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			ARTORN AND A ST. SEC. 15															
ADD	ITION	IAL IN	ISTRUCTIONS:												<u>-</u> -			
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I, (fiel	d sampl	er), atte	st to the validity and authenticity of	of this sample. I am a	ware that tampe	ering with or i	ntentional	ly misla	abeling the	sample	location	n, date	or tim	ne of co	llectic	n is co	nsidered fraud and ma	ay be
			on. Sampled By: Share			(0) 1 (1)			-	0 (1							
Relinquished by: (Signature/Affiliation)						Received by: (Signature/Affiliation)								Dat	3-1	5-1	2 Time: 6.0	O
Relinquished by: (Signature/Affiliation)						Received by: (Signature/Affiliation) May Cle Apple Appl								Date:			Time:	
Relinquished by: (Signature/Affiliation)					Received by	Received by: (Signature/Affiliation)								Date:			Time:	
*Key: /	PA - QA	ueous	SO - Soil WA - Wast	e OT - Other	AR - Air	**: L-Lite	r V-V	'oa	S-Soil Jar	O-(Orbo	T-	Tedlar	L B-	Brass	; F	P-Plastic OT-Othe] er

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.

APPENDIX D

GEOTRACKER ELECTRONIC SUBMITTAL CONFIRMATIONS

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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

Submittal Type:

GEO_WELL

Submittal Title:

GeoWell 3-15-12

Facility Global ID:

T0600102256

Facility Name:

OLYMPIC STATION

File Name:

GEO WELL.zip

Organization Name:

Stratus Environmental, Inc.

<u>Username:</u>

STRATUS NOCAL

IP Address:

12.186.106.98

Submittal Date/Time:

3/26/2012 1:36:30 PM

Confirmation Number:

9865613818

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STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type:

EDF - Monitoring Report - Quarterly

Submittal Title:

Analytical 3-15-12

Facility Global ID:

T0600102256

Facility Name:

OLYMPIC STATION

File Name:

12031660_EDF.zip

Organization Name:

Stratus Environmental, Inc.

<u>Username:</u>

STRATUS NOCAL 12.186.106.98

IP Address:
Submittal Date/Time:

4/27/2012 7:17:59 AM

Confirmation Number:

9373853325

VIEW QC REPORT

VIEW DETECTIONS REPORT

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