RECEIVED

By Alameda County Environmental Health at 9:53 am, Oct 07, 2014

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:

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

Sincerely,

George and Frida Jaber 1989 Family Trust

Philip Jaber, Tractee

Scott G. Bitting



October 2, 2014 Project No. 2115-1436-01

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

Re: Remediation Status Report and Results of Limited Groundwater Sampling Event

Third Quarter 2014

Former Olympic Station 1436 Grant Avenue San Lorenzo, California

ACEHD Case No. RO0000373, GeoTracker No. T0600102256

Dear Mr. Detterman:

On behalf of Mr. Philip Jaber and the George and Frida Jaber 1989 Family Trust, Stratus Environmental, Inc. (Stratus) is submitting the attached report, for the Former Olympic Station located at 1436 Grant Avenue in San Lorenzo, California (the site, see Figures 1 and 2). If you have any questions or comments concerning this report, please contact Gowri Kowtha at gkowtha@stratusinc.net or (530) 676-6001 or Scott Bittinger at (530) 676-2062.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Deborah Barr, P.E. Project Engineer

Attachment:

Remediation Status Report and Results of Limited Groundwater Sampling Event,

Project Geologist

Third Ouarter 2014

cc:

Mr. Philip Jaber

FORMER OLYMPIC STATION REMEDIATION STATUS REPORT AND RESULTS OF LIMITED GROUNDWATER SAMPLING EVENT, THIRD QUARTER 2014

Facility Address: 1436 Grant Avenue, San Lorenzo, CA

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

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 PERIOD (Third Quarter 2014):

- 1. On July 31, 2014, Stratus submitted a document titled Well Installation and Site Assessment Report.
- Remediation at the site using dual phase extraction (DPE) technology was initiated on July 21, 2014.
- 3. Stratus performed seven operation and maintenance (O&M) visits for the DPE system on July 21, 24, and 29, August 4, 18, and September 8 and 19, 2014.
- 4. In a letter dated September 17, 2014, ACEHD requested that wells MW-5A and MW-6A, which were installed and initially sampled during the second quarter 2014, be sampled on a quarterly basis. Stratus subsequently collected purge groundwater samples from these wells on September 19, 2014, and submitted these samples for analytical testing.

WORK PROPOSED FOR NEXT PERIOD (Fourth Quarter 2014):

- DPE remediation will continue for at least two months to maximize the system efficiency during the
 months with seasonal low groundwater table. The exact duration of the remediation event has not
 been determined, but will be evaluated on a periodic basis. A minimum of two site visits per month
 will be performed in order to verify proper operation of the equipment and to collect samples as
 needed to verify permit compliance and assess effectiveness of the remedial efforts.
- A groundwater monitoring and sampling event will be performed during the fourth quarter 2014; tentatively this work is scheduled to be completed in December 2014.

Current Phase of Project:	CAP/REM (Start-up)
Frequency of Groundwater Monitoring:	All Wells = Semi-Annual (2 nd & 4 th); Wells MW-5A and MW-6A also gauged during the 1 st and 3 rd quarter to assess purge volumes for well sampling
Frequency of Groundwater Monitoring and Sampling:	All Wells (except MW-5A and MW-6A) = Semi-Annual (2 nd & 4 th); Wells MW-5A and MW-6A sampled quarterly per 9/17/14 directive from ACEHD
Groundwater Sampling Date:	September 19, 2014

Is Free Product (FP) Present on Site:

Approximate Depth to Groundwater:

8.61 to 8.80 feet below top of well casing in wells MW-5A and MW-6A, respectively, under onsite DPE conditions

Groundwater Flow Direction:

Not evaluated this quarter

Not evaluated this quarter

DPE SYSTEM QUARTERLY OPERATION AND PERFORMANCE:

Groundwater Gradient:

Equipment Inventory: 350 cubic feet per minute (cfm) thermal oxidizer, and two 2,000 pound liquid-phase granular activated carbon vessels, connected in-series. Extraction Wells: EX-1 through EX-7 Operating Mode: Thermal BAAQMD Permit Nos.: Plant No. 21776 Influent Air: GRO End of Period (lab): 410 milligrams per cubic meter (mg/m³) (9/8/14) Influent Air: Benzene End of Period (lab): 0.45 mg/m³ (9/8/14) 0.80 mg/m³ (9/8/14) Influent Air: MTBE End of Period (lab): Flow Rate End of Period: 132.5 acfm (9/19/14) Applied Vacuum End of Period: 12 inches of water column ("WC) (9/19/14) Soil vapor: GRO Removed this Period: 825.3 lbs (between 7/21/14 and 9/8/14) Influent Groundwater: GRO End of Period <50 µg/L (9/8/14) Influent Groundwater: Benzene End of 0.89 µg/L (9/8/14) Period (lab): Influent Groundwater: MTBE End of Period 12 µg/L (9/8/14) (lab): Average Groundwater Extraction Rate: 5.7 gpm (between 7/21/14 and 9/8/14) Groundwater: GRO Removed this Period: 0.4 lbs (between7/21/14 and 9/8/14) Groundwater Removed this Period: 244,930 gallons (between 7/21/13 and 9/8/14) Operating Hours This Period: 1,030.9 hours (between 7/21/14 and 9/19/14) Number of Shutdowns: 2-manual; 1-automatic

GROUNDWATER MONITORING AND SAMPLING EVENT:

Groundwater samples collected from wells MW-5A and MW-6A were analyzed at a state-certified analytical laboratory for gasoline range organics (GRO) by EPA Method SW8015B/SW8260B and for benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method SW8260B. Well construction details are summarized in Table 1, and historical groundwater elevation and analytical data are summarized in Table 2. Field data sheets documenting measurements and observations obtained by Stratus personnel, a description of sampling and analyses procedures utilized, and laboratory analytical reports with chain of custody records are included in Appendix A, B, and C, respectively. Depth to groundwater measurements and sample analytical results have been uploaded to the State of California's GeoTracker database and documentation of this data uploading is provided in Appendix D.

In general, concentrations of petroleum hydrocarbons and fuel oxygenates detected in the MW-5A and MW-6A well samples were similar to the initial sampling of these wells performed in June 2014 (see page

4 of Table 2). GRO and benzene were detected at concentrations of 28,000 micrograms per liter (μ g/L) and 3,400 μ g/L, respectively, in the MW-6A sample, and 18,000 μ g/L and 1,900 μ g/L, respectively, in the MW-5A sample. MTBE was also detected in the MW-6A sample (45 μ g/L).

REMEDIAL ACTION SUMMARY

Stratus is performing DPE at the site using a portable CBA Equipment, LLC 350 cubic feet per minute (cfm) thermal oxidizer permitted to operate by the Bay Area Air Quality Management District (BAAQMD). Soil vapors and groundwater are extracted from the subsurface and then conveyed to the remediation system through above ground piping protected by traffic rated speed bumps. Wells EX-1 through EX-7 are manifold to the remediation system, however, groundwater and soil vapors are being extracted from wells EX-2 through EX-7 only. In-well drop tubes (stingers) are being used for extraction of soil vapors and groundwater at each well. Soil vapors are abated on-site through the thermal oxidizer and discharged to the atmosphere. Groundwater is extracted from the subsurface and treated onsite using two 1,000-pound GAC vessels, and then discharged to the sanitary sewer under approved discharge permit (Oro Loma Sanitary Sewer District). The approximate locations of the remedial equipment, above ground conveyance piping, and sewer discharge point are depicted on Figure 2. A process flow diagram of the remediation equipment is presented in Figure 3.

During the third quarter 2014, Stratus technicians conducted seven O&M site visits between July 21 and September 19, 2014. Field data sheets documenting measurements and observations collected during each visit are included in Appendix A. Stratus personnel worked to optimize system performance throughout the remediation event; in particular, adjustment of drop tube (stinger) depths appears to have improved operational uptime during the remediation event beginning in mid-August 2014. Magnahelic gauges were placed within wells MW-1 through MW-4, MW-5A, and MW-6A to measure induced vacuum, and a hand-operated electric water-level sounder was used to measure depth to groundwater in each of these six wells. The remediation system was equipped to measure the extraction rates (soil vapor and groundwater flow rates). A flow totalizer was installed to record the volume of treated water extracted and disposed to the sanitary sewer. Influent and effluent soil vapor concentrations were also monitored using a photo-ionization detector (PID).

The remedial system was started up for initial operation on July 21, 2014. During the initial part of the remedial event, the remedial equipment was only operated briefly, in order to allow for collection of samples verifying proper abatement of dissolved phase contaminants. After verifying proper contaminant abatement and receiving approval from Oro Loma Sanitary Sewer District, Stratus attempted to operate the remedial equipment continuously. Until August 18, 2014, the remedial equipment operated intermittently, as the DPE system was manually shut down due to required discharge requirements and/or was observed non-operational upon arrival for an O&M visit. However, since August 18, 2014, the remediation system has operated continuously. Table 3 presents an operational uptime and flow summary for the remediation equipment.

Soil vapor samples were collected from the system in laboratory-supplied 1-liter Tedlar bags, placed in protective containers, and stored at ambient air temperature. Groundwater samples were collected in laboratory supplied glass voas and stored in ice-chilled coolers. Strict chain of custody procedures were followed from the time samples were collected until the time samples were relinquished to the state-certified analytical laboratory. Soil vapor samples were analyzed by Kiff Analytical, LLC (ELAP No. 08263CA), and groundwater samples were analyzed by Alpha Analytical, Inc (ELAP No. 2019). The soil vapor samples were analyzed for GRO, BTEX, and MTBE using USEPA Method 8260B. Groundwater samples were analyzed for GRO using USEPA Method SW8015B/SW8260B and for BTEX and MTBE using USEPA Method SW8260B. Select groundwater samples were also analyzed, as required by the Oro Loma Sanitary Sewer District, for select metals using USEPA Method 200.8, for mercury using USEPA Method 245.1, for cyanide using USEPA Method SM4500-CNE, and for phenols using USEPA Method SW8270C-SIM. Analytical data for these samples is included in Appendix C and documentation of GeoTracker data uploading is provided in Appendix D.

Tables 4 through 9 provide a summary of data available as a result of use of the DPE system. Based on hour meter readings recorded by the remediation system, the DPE equipment operated for approximately

1,030.9 hours between July 21 and September 19, 2014. During this time, influent air flow rates ranged between approximately 98 and 132 cubic feet per minute (cfm) under an applied vacuum ranging from approximately 12 to 19 inches of mercury ("Hg). Induced vacuum was noted in wells MW-2, MW-3, MW-4, MW-5A, and MW-6A (see Table 4). Before initiating DPE, static groundwater levels were measured in wells MW-1, MW-2, MW-3, MW-4, MW-5A, and MW-6A and during the DPE operational period; groundwater levels generally declined approximately 1 to 1.5 feet in each of these wells (see Table 4). Given this observation, we believe that DPE is resulting in localized drawdown of the water table near the extraction wells. Both induced vacuum and groundwater drawdown were observed as highly variable with the observed readings from the monitoring wells. Induced vacuum was noted in monitoring wells as much as 54-feet from the nearest extraction well. Given the available data, we believe that a radius of influence (ROI) of approximately 25 feet is reasonable, however, induced vacuum could be observed as much as 54-feet distant from an extraction point.

Influent air concentrations of fuel contaminants in soil vapor declined appreciably since startup of DPE. Initially, GRO, benzene, and MTBE were detected at concentrations of 5,900 milligrams per cubic meter (mg/m³), 1.0 mg/m³, and 1.8 mg/m³, respectively (on July 21, 2014, following short duration start-up). By September 8, 2014, influent concentrations of GRO, benzene, and MTBE had declined to 410 mg/m³, 0.45 mg/m³, and 0.80 mg/m³, respectively (after operating continuously for nearly one month). No petroleum hydrocarbons or MTBE were detected in the effluent air samples, and thus the remediation system is operating in compliance with the BAAQMD permit for the equipment. Using the available analytical data and information collected during O&M site visits (air flow rates, hour meter readings, etc.), Stratus estimates that approximately 825 pounds of GRO were removed from the subsurface in the vapor phase between July 21 and September 8, 2014 (see Table 6).

Between July 21 and September 8, 2014, approximately 244,930 gallons of groundwater were extracted from the subsurface, treated onsite, and discharged to the sanitary sewer system. Based on flow totalizer measurements, groundwater is being extracted at a rate of approximately 5.7 gallons per minute (gpm; see Table 9). Influent concentrations of fuel contaminants in groundwater are relatively low, and therefore, contaminant mass removal in the dissolved phase is low (see Tables 7 and 9). No petroleum hydrocarbons or MTBE were detected in effluent groundwater, and the GAC groundwater treatment system appears to be operating in compliance with Oro Loma Sanitary Sewer District discharge requirements.

DISCUSSION:

Stratus will continue to operate the DPE system during the fourth quarter 2014. The exact length of time that remediation will be performed will be evaluated on an ongoing basis. Based on the initial results of the MW-5A and MW-6A sampling, DPE remediation may need to extend into the first quarter 2015 in order for groundwater contaminant concentration levels to be reduced to levels that will allow for future closure of the site's environmental case under the criteria established by the State Water Resources Control Board's 'Low Threat Closure Policy' (LTCP). It is unknown as to the duration of time that will be necessary for DPE to sufficiently reduce shallow soil gas concentrations to levels that will allow for site closure under the LTCP.

ATTACHMENTS:

•	Table 1	Well Construction Details
•	Table 2	Groundwater Elevation and Analytical Summary
•	Table 3	Operational Uptime and Flow Summary – DPE Remediation Event
•	Table 4	Induced Vacuum and Depth to Water Measurement Summary – DPE Remediation Event
•	Table 5	SVE Component – Analytical Results and Flow Rates – DPE Remediation Event
•	Table 6	SVE Component – Extraction and Emission Rates – DPE Remediation Event
•	Table 7	Groundwater Extraction Component – Groundwater Analytical Data Summary -

•	Table 8	DPE Remediation Event (Petroleum Hydrocarbons and MTBE) Groundwater Extraction Component – Groundwater Analytical Data Summary - DPE Remediation Event (Non-Fuel Contaminant Analyses Required for Sewer Discharge Permit)
•	Table 9	Groundwater Extraction Component – Operational Performance and Mass
		Removal Summary - DPE Remediation Event
•	Figure 1	Site Location Map
•	Figure 2	Site Plan
•	Figure 3	Process Flow Diagram
•	Appendix A	Field Data Sheets
•	Appendix B	Sampling and Analyses Procedures
•	Appendix C	Laboratory Analytical Reports and Chain-of-Custody Documentation
•	Appendix D	GeoTracker Electronic Submittal Confirmations

TABLE 1
WELL CONSTRUCTION DETAIL SUMMARY

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

Boring/Well	Date	Boring		Well	Screen	Slot	Drilling	Consultant
I.D.		-	Diameter		Interval	Size	Method	
		(feet)	(inches)	(inches)	(feet bgs)	(inches)	· · · · · · · · · · · · · · · · · ·	
Groundwater	Monitorin	g Wells						
MW-1	09/24/99	26.5	8 -	2	5 - 26.5	0.020	HSA	Aqua Science Engineers
MW-2	09/24/99	20	8	2	5-20	0.020	HSA	Aqua Science Engineers
MW-3	09/24/99	21.5	8	2	5-21	0.020	HSA	Aqua Science Engineers
MW-4	02/09/10	10	10	4	5-10	0.020	Air Knife	Conestoga-Rovers & Associates
MW-5A	05/28/14	10	8	2	5-10	0.020	HSA	Stratus Environmental
MW-5B	05/28/14	20	8	2	15-20	0.020	HSA	Stratus Environmental
MW-6A	05/28/14	10	8	2	5-10	0.020	HSA	Stratus Environmental
MW-6B	05/28/14	20	8	2	15-20	0.020	HSA	Stratus Environmental
Extraction W	ells							
EX-1	05/19/11	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-2	05/19/11	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-3	05/19/11	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-4	02/20/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-5	02/20/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-6	02/21/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-7	02/20/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
Injection Wel	ls							
IW-1	05/20/11	11.5	8	0.75	9.5-11.5	microporous	HSA	Stratus Environmental
IW-2	05/20/11	16	8	0.75	14-16	microporous	HSA	Stratus Environmental

Notes:

HSA = Hollow Stem Auger

Data regarding the construction of wells MW-1 through MW-4 obtained from groundwater monitoring reports prepared by Conestoga-Rovers & Associates

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)			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)				Ethanol (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							
1	01/13/00	7.90		7.10		_	< 50	<1,300	18	<13	<13	<13	1,700	-	_	_	-			_
J)	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	-	_			_		- ,
l	10/25/00	7.91		7.09	-		76***	4,100*	120	<25	<25	<25	6,100	_	-	-		'	_	-
	02/16/07	6.32		8.68		-	_			_		-	-		-	_		-	-	
Į.	03/01/07	5.88		9.12	_	<250	< 50	<50	<1.2	<1.2	<1.2	<1.2	78	<1.2	<1.2	<1.2	<12	<120	<1.2	<1.2
1	05/01/07	7.24	15.71	8.47		<250	< 50	<50	<5.0	<5.0	<5.0	<5.0	250	<5.0	<5.0	< 5.0	<50	<500	< 5.0	<5.0
	08/01/07	7.77		7.94	-	_	<50	<50	<25	<25	<25	<25	520	<25	<25	<25	<250	<2,500	<25	<25
i	11/01/07	7.71		8.00		_	<50	<50	<12	<12	<12	<12	460	<12	<12	<12	<120	<1,200	<12	<12
Í	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
ł	08/01/08	8.02		7.69	-		<50	<50	<10	<10	<10	<10	500	<10	<10	<10	<40	<1,000	<10	<10
ĺ	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	_		-		_	-			_		-		_		_	
	08/05/10	7.65		8.06	_	_	_	<50	<0.5	<0.5	< 0.5	< 0.5	350	-			-			
	02/04/11	7.20		8.51	-	-	-	<50	0.90	< 0.5	< 0.5	< 0.5	62	_		_				_
	06/03/11	7.28	18.60	11.32	-		_	-		-	_	_		_		_		_		-
	08/02/11	7.47		11.13				120	< 0.50	< 0.50	< 0.50	< 0.50	160	_	-	_				
į.	09/29/11	7.83		10.77	-	-				-		_			-			-	_	
li .	10/12/11	7.03		11.57	_			-	-	-		-			_		-	-		
ļļ	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	_	-	-	_	-	-	
	08/28/12	7.81		10.79		-	_	120	< 0.50	< 0.50	< 0.50	< 0.50	240		_		_	-		-
	02/27/13	7.32		11.28	_	-	-	61	< 0.50	< 0.50	< 0.50	< 0.50	69	_	-		-	-	-	-
	08/26/13	8.05		10.55		-	_	470	< 0.50	< 0.50	< 0.50	< 0.50	590	-	-	-		-		-
	06/19/14	7.86		10.74	-	_	-	190	<0.50	<0.50	<0.50	< 0.50	230	-	_	-	-	-		-

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	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)		ETBE (µg/L)		Ethanol (µg/L)		1,2- DCA (μg/L)
MW-2	10/06/99	7.87	14.46	6.59	<1,000	500[3]	<50	70*	<0.5	<0.5	<0.5	<0.5	11	_			-			
	01/13/00	7.46		7.00	<1,000	500[3]	<50	<50	< 0.5	< 0.5	< 0.5	< 0.5	6.2				-	_	-	
	04/12/00	6.67		7.79	1,100	<500	< 50	<50	< 0.5	< 0.5	<0.5	< 0.5	39			-	_			- [
	07/19/00	7.23		7.23	1,300	<500	<50	<1,000	<10	<10	<10	<10	990	-	-	_	-	_		
	10/25/00	7.52		6.94	_	< 500	<50	370	<2.5	<2.5	<2.5	<2.5	690		-		-			
	02/16/07	5.89		8.57	-	_		_		-		-	-						-	
	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
1	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		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	<1.0	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		8.38		_		<50	< 0.50	< 0.50	< 0.50	< 0.50	4.4	_		-	-		_	-
	06/03/11	6.82	18.00	11.18	_			_	_			-		_			-		_	
	08/02/11	7.06		10.94	_	-	_	<50	< 0.50	< 0.50	< 0.50	< 0.50	46	-	-	-	-	-		
	09/29/11	7.39		10.61	-	-	-	< 50	< 0.50	< 0.50	< 0.50	< 0.50	41	<1.0	<1.0	<1.0	<10	-	-	<1.0
	10/12/11	6.62		11.38	-	-	_	<50	< 0.50	< 0.50	< 0.50	< 0.50	37	<1.0	<1.0	<1.0	<10	-	-	<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	_	-	-	-	-		-	-		_	-			_		
1	03/15/12	5.98		12.02	-	-	-	<50	< 0.50	< 0.50	< 0.50	< 0.50	4.3	_	-			_		
	08/28/12	7.39		10.61	-	-	-	<50	< 0.50	< 0.50	< 0.50	< 0.50	35	_		-	-		_	-
	02/27/13	6.91		11.09	-	-	-	<50	< 0.50	< 0.50	< 0.50	< 0.50	12	_	-	_	-		_	
	08/26/13	7.61		10.39		-	-	<50	< 0.50	< 0.50	< 0.50	< 0.50	6.2	_	_	-	-	_		-
	06/19/14	7.73		10.27		-	-	<50	<0.50	<0.50	<0.50	<0.50	13	-				_		-

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	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)			TBA (μg/L)	Ethanol (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			_				_
	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	-	-		-	_		
	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	5.72		9.41	-			< 50	0.55	< 0.50	< 0.50	< 0.50	25	-	-	_			-	-
	05/18/10	6.73		8.40	-	_				_		_	_						_	
	08/05/10	7.31		7.82	-	_	-	450	110	2.2	0.76	0.64	32				-			
	02/04/11	6.80		8.33	-	_	-	220[1]	64	1.6	< 0.5	< 0.5	36				_		-	_
	06/03/11	6.87	17.95	11.08			-	200	26	< 0.50	< 0.50	< 0.50	34	-		-				_
	08/02/11	7.07		10.88	-	_		<50	2.5	< 0.50	< 0.50	< 0.50	36	-		-	-		-	
	09/29/11	7.43		10.52	_	-	_	<50	< 0.50	< 0.50	< 0.50	< 0.50	28	<1.0	<1.0	<1.0	<10	-		<1.0
	10/12/11	6.67		11.28	-	-	_	<50	0.91	< 0.50	< 0.50	< 0.50	32	<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		10.53	-	-	-	-		-	-	-	-	_	-	-	-		-	-
	03/15/12	6.21		11.74	_	_	_	<50	< 0.50	< 0.50	< 0.50	< 0.50	24	_		_	-		-	
	08/28/12	7.44		10.51	_	_	-	<50	6.5	< 0.50	< 0.50	< 0.50	24	-	_	-		-	-	
	02/27/13	6.90		11.05	-		_	<50	< 0.50	< 0.50	< 0.50	< 0.50	18	_	_	-		-	-	
	08/26/13	7.72		10.23		••	-	<50	< 0.50	< 0.50	< 0.50	< 0.50	34	-	-		-	_	-	_
	06/19/14	7.50		10.45			-	<50	2.3	<0.50	<0.50	<0.50	16	-		-				

TABLE 2 GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

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

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	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)		ETBE (µg/L)		Ethanol (μg/L)		1,2- DCA (μg/L)
MW-4	05/18/10	6.68	15.15	8.47			**	13,000	620	36	170	12	1,200	_	_	_	-			-
	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		-	-	-		_	
	08/28/12	7.40		10.59				2,400	250	<4.0[2]	14	<4.0[2]	1,400	-	_	_	-		_	
	02/27/13	6.85		11.14				2,400	160	2.5	8.2	<2.0[2]	1,400		_	_				-
	08/26/13	7.69		10.30	-	-	-	4,900	220	<2.5[2]	5.7	<2.5[2]	2,400			_				- 1
	06/19/14	7.48		10.51	-	-	-	6,000	260	<4.0[2]	8.8	<4.0[2]	1,600			-	-	-	-	
MW-5A	06/19/14	7.53	17.94	10.41		_	_	21,000	2,000	<25[2]	1,400	650	<25[2]	_			_	_		
	09/19/14	8.61		9.33				18,000	1,900	11	1,200	839.9	<5[2]	-		-		-	-	
MW-5B	06/19/14	7.52	17.92	10.40	-	_	-	<50	<0.50	<0.50	<0.50	<0.50	32				-			
MW-6A	06/19/14 09/19/14	7.66 8.80	18.05	10.39 9.25	-		-	43,000 28,000	3,300 3,400	<50[2] 19	2,000 2,000	3,100 1,900	77 45	-	 -		- -	 	<u>-</u>	
MW-6B	06/19/14	7.32	17.69	10.37	-			86	<0.50	<0.50	<0.50	<0.50	82	-		-		-		_

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	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)				Ethanol (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				<50	2.6	< 0.50	< 0.50	< 0.50	8.4	_						
1	08/28/12	7.53		10.61			_	410	88	1.2	36	1.4	42	-	_					
	02/27/13	7.02		11.12				<50	0.75	< 0.50	< 0.50	< 0.50	14					_		
	08/26/13	NM		NM						Well Cov	ered by Car	- No Samr	ole Collec	ted						
	06/19/14	7.59		10.55		-		<50	< 0.50	< 0.50	<0.50	<0.50	19	-			-	-		
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			_		_		-		_		-	_		_		
	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			_	-			
	08/28/12	7.35		10.79	_	_		<300[2]	2.5	<1.5[2]	<1.5[2]	<1.5[2]	540	_	_					
	02/27/13	6.82		11.32	_	_		320	0.51	<0.50	< 0.50	< 0.50	420	_					_	
	08/26/13	7.56		10.58		_		270	< 0.50	< 0.50	< 0.50	< 0.50	340			_	_			
	06/19/14	7.37		10.77	-	-	-	150	<0.50	<0.50	<0.50	< 0.50	170		-	_	-	-		
EX-3	06/03/11	6.55	17.63	11.08	_	_	_	95	0.93	< 0.50	<0.50	<0.50	78	_	_					
	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	_				_	_	_		_			_	-			
	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		_			_		_ !
	08/28/12	7.15		10.48	_	-		100	< 0.50	< 0.50	< 0.50	< 0.50	190			-				
	02/27/13	6.63		11.00	_	_		84	< 0.50	< 0.50	< 0.50	< 0.50	93	_			-		-	
	08/26/13	7.41		10.22	_			120	< 0.50	< 0.50	< 0.50	< 0.50	120				_			
	06/19/14	7.20		10.43	-			96	< 0.50	< 0.50	< 0.50	<0.50	110	-						
EX-4	06/19/14	7.64	18.30	10.66			-	210	9.5	<0.50	0.55	0.74	10	-	-	-		_		-
EX-5	06/19/14	7.84	18.41	10.57	_	-		110	6.0	<0.50	<0.50	<0.50	14	-			-			-
EX-6	06/19/14	7.81	18.29	10.48				190	25	<0.50	5.9	< 0.50	18		-					
EX-7	06/19/14	7.44	18.06	10.62	_	-		56	0.79	<0.50	<0.50	<0.50	50	-	-	-	-		-	

TABLE 2 GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

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

Well ID	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)			Ethanol (μg/L)		1,2- DCA (μg/L)
Legend/Key:												_								
ft msl = feet ab	ove mean sea leve	el	TPH - mo = t	total petroleum l	nydrocarbon	s as motor oi	1		MTBE - methyl	tertiary butyl e	ther	TAME = te	rt amyl meth	yl ether		Analytica	al Method	<u>s:</u>		ľ
μg/L = microg	rams per liter		TPHd = total	petroleum hydr	ocarbons as	diesel			DIPE = di isopr	ropyl ether		TBA = tert	butyl ether					PA Method		
NM = Not me	asured		GRO = gasol	line range organ	ics C6-C12				ETBE = ethyl to	ertiary butyl eth	er	EDB = 1,2- 1,2-DCA =	dibromoetha			SW8015I analyzed		B, all other 60B.	analytes	
* = Hydrocarb	on reported in the	gasoline range	e does not mat	ch the gasoline s	standard.											-		prior to Feb	-	· .
** = Hydrocar	bon reported is in	the early diese	el range and do	es not match the	e diesel stan	dard.												reports on t th Departm		da County
*** = Hydroca	rbon reported doe	s not match th	e pattern of the	e diesel standard	i.															
= No sample	collected																			

^[1] Weakly modified or unmodified gasoline is significant.

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

Analytical data for samples collected prior to 2011 are obtained from documents available in the Alameda County Environmental Health

Department fil

Well elevations and locations surveyed by Morrow Surveying on June 15, 2011. Monitoring wells MW-5A/B, MW-6A/B, and extraction wells EX-4 through EX-7 surveyed by Morrow Surveying on June 2, 2014.

^{[3] =} Sample also analyzed for halogenated volatile organic compounds (EPA Method 8010) and semivolatile organic compounds (EPA Method 8270A); all analytes reported as non-detect.

TABLE 3 OPERATIONAL UPTIME AND FLOW SUMMARY

DPE REMEDIATION EVENT

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date & Time	Notes	Hour Meter	Applied Vac	Area	Sys Inf Temp	Sys Inf Air Velocity	Sys Inf Air Flowrate	Control Temp	Effluent Air Temp	Area	Dilution Air Temp	Dilution Air Velocity	Dilution Air Flowrate	Inf	H Eff	PII Sys Inf	Eff
		Reading	"Hg	ft ²	°F	fpm	acfm	°F	°F	ft²	°F	fpm	acfm	pН	°F	ppmv	ppmv
7/21/14 6:00	1	3,478.1	16	0.0491	95	2,000	98.2	1,452	1,411	0.0218	76	680	15	7.69	7.60	310	1.6
7/24/14 6:00	2	3,480.0	19	0.0491	95	2,000	98.2	1,460	1,410	0.0218	75	800	17	-	H	350	2.1
7/29/14 5:30	3	3,599.7	16	0.0491	90	2,200	108.0	1,465	1,425	0.0218	76	720	16		8.01	310	1.1
8/4/14 7:10	4	3,600.4	15	0.0491	85	2,000	98.2	1,493	1,430	0.0218	69	840	18		1	300	1.2
8/18/14 6:30	5	3,862.0	13	0.0491	90	2,350	115.4	1,475	1,426					7.87	7.89	110	2.3
9/8/14 7:30		4,247.0	12	0.0491	100	2,600	127.6	1,463	1,422				-	7.81	7.87	90	2.1
9/19/14 5:00		4,509.0	12	0.0491	100	2,700	132.5	1,464	1,425						-	150	1.7
Average		_	15		94	2,264	111.1	1,467	1,421		74	760	17	7.79	7.8	231	1.7

Sample Calculation:

air flow = area of pipe $(0.0491 \text{ ft}^2) \times \text{air velocity (fpm)} = \text{flowrate (acfm)}$

Legend / Key:

Vac = Vacuum

fpm = feet per minute

"Hg = inches mercury ft² = square feet acfm = actual cubic feet per minute ppmv = parts per million by volume PID = Photoionization Detector

Temp = temperature
°F = Fahrenheit

Sys Inf = System Influent (includes dilution air)

Inf = Influent

Eff = Effluent

-- = not applicable/ not measured

Notes:

Influent pipe diameter = 3.0 inches

1 System briefly started to conduct an initial sampling event extracting from wells EX-2 through EX-7. Stingers placed at 13-feet (EX-2), 10-feet (EX-3, EX-4, and EX-6),13-feet (EX-5) and 8-feet bgs (EX-7). System down upon departure waiting results.

- 2 System down upon arrival, system re-started for 1-week operation per groundwater discharge permit. System modified to extract from extraction wells EX-2 through EX-6.
- 3 Samples obtained per discharge permit, system shutdown upon departure pending approval of analytical results to begin discharging treated groundwater into on-site sewer cleanout.
- 4 System down upon arrival; groundwater discharge permit approved. System re-started upon departure for continuous operation extracting from wells EX-2 through EX-7 with stinger placed at 6-feet bgs (EX-7).
- 5 System down upon arrival, stinger depths modified, EX-2 through EX-4 and EX-6 placed at 10-feet, EX-5 at 13-feet, and EX-7 at 5-feet bgs.

TABLE 4 INDUCED VACUUM AND DEPTH TO WATER MEASUREMENT SUMMARY DPE REMEDIATION EVENT

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

	S				Induced \	Vacuum (("WC) &/	or Depth	to Water	(feet bg	s)		
	Notes	M	W-1	M	W-2	M	W-3	M	W-4	MV	V-5A	MV	V-6A
Date & Time		"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs
7/21/14 6:00	1	0.00	7.80	0.00	7.38	0.00	7.45	0.0	7.40	0.0	7.48	0.0	7.60
7/24/14 6:00	2			0.10	8.61	1.00	9.32	0.52	7.86	0.65	7.70	0.50	7.73
7/29/14 5:30		0.01	9.10	0.14	8.98	2.35	9.62	0.75	8.74	0.75	8.80	0.57	8.45
8/4/14 7:10	3			0.30	8.44	1.37	8.83	0.42	7.73	0.41	8.25	0.39	8.21
8/18/14 6:30	4			0.55	8.47	0.04	8.95	0.30	8.03	0.36	8.50	0.32	8.52
9/8/14 7:30		0.01	9.09	0.49	8.87	1.19	9.37			0.40	8.53	0.34	8.69
9/19/14 5:00		0.00	9.16	0.50	8.98	3.33	9.47			0.40	8.61	0.37	8.80
Average		0.01	8.79	0.30	8.53	1.33	9.00	0.40	7.95	0.42	8.27	0.36	8.29
Nearest Extraction well & approx. distance (feet)		EX-2	22'	EX-7	11'	EX-6	9'	EX-1	13'	EX-3	28'	EX-6	54'

Legend / Key:

"WC = Inches of water column

bgs = below ground surface

Positive pressure

-- = not applicable/ not measured

Notes:

System extracting from wells EX-2 through EX-7. Stinger depths placed at 13-feet bgs (EX-2 and EX-5), 10-feet bgs (EX-3, EX-4 and EX-6), and 8-feet bgs (EX-7).

3 System modified extracting from wells EX-2 through EX-7; stinger placed in well EX-7 at 5-feet bgs.

4 System modified stingers placed at 10-feet bgs (EX-2, EX-4 and EX-6), 13-feet bgs (EX-5), and 5-feet bgs (EX-7).

² System modified extracting from wells EX-2 through EX-6.

TABLE 5 SVE COMPONENT - ANALYTICAL RESULTS AND FLOW RATES DPE REMEDIATION EVENT

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date	SS	Sample	Flowra	te *	Influent	Vacuum	Sample	Lab Sample						
	Notes	Time	(a ofm)	(acfm)	Town (°E)	WIT.	Logotion	Number	GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	МТВЕ
		Time	(acfm)	(scfm)	Temp. (°F)	"Hg	Location	Number	GRO	Delizelle	Toluelle	Emploenzene	Aylenes	WIIDE
07/21/14	1	7:30	98.2	93.4	95	16	ASYS INF	88741-01	5,900	1.0	< 0.70	<0.70	<0.70	1.8
						ŀ	A EFF	88741-02	<20	< 0.20	< 0.20	< 0.25	< 0.20	<0.20
08/04/14		7:40	98.2	95.1	85	15	ASYS INF	88839-01	3,800	4.0	<0.50	0.71	<0.50	1.4
II.							A EFF	88839-02	<20	<0.20	< 0.20	<0.25	< 0.20	<0.20
09/08/14		8:10	127.6	120.3	100	12	ASYS INF A EFF	89089-01 89089-02	410 <20	0.45 <0.20	<0.20 <0.20	<0.25 <0.25	<0.20 <0.20	0.80 <0.20

Legend / Key:

acfm = actual cubic feet per minute

scfm = standard cubic feet per minute

Temp. (°F) = temperature in degrees Fahrenheit

"Hg = inches mercury

GRO = gasoline range organics (C4-C13)

BTEX = benzene, toluene, ethylbenzene, and xylenes

 $MTBE = methyl \ tertiary \ butyl \ ether$

ASys Inf = system influent

A Eff = effluent

mg/m³ = milligrams per cubic meter

consens telepage ethylhograps and vulence CDO analyzed using EDA Method

GRO analyzed using EPA Method 8260B

Laboratory Analytical Methods and Facility:

BTEX and MTBE analyzed using EPA Method 8260B

Kiff Analytical LLC (ELAP #08263CA)

* Flowrate used based on most representative field data at time of sampling.

Calculations:

Actual flow rate (acfm) is converted to standard flow rate (scfm) using the following formulas:

Pressure corrected influent flow rate

Flow was taken on positive side of blower, no pressure correction factor needed.

Temperature Corrected influent flow rate

Pressure corrected flow rate * {(460 R + 68deg F)/(deg F+ 460 R)}

Notes:

1 DPE test, extracting from extraction wells EX-2 through EX-7.

TABLE 6 SVE COMPONENT - EXTRACTION AND EMISSION RATES DPE REMEDIATION EVENT

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date	otes	Influent Sample	Hour Meter	Sys. Influent Flowrate	Effluent Flowrate ²	Sys	Sys. Influent Conc. (mg/m³)		Е	ffluent Cor (mg/m³)	ıc.		action Rate /ells (lbs/da		Emissions Rate to Atmosphere (lbs/day)			Destruction Removal Efficiency (%)	Cumulat Remov	ive GRO al (lbs)
	Z	Time	Reading	(scfm)	(scfm)	GRO	Benzene	МТВЕ	GRO	Benzene	МТВЕ	GRO	Benzene	МТВЕ	GRO	Benzene	MTBE	GRO	Period	Total
7/21/14	1	7:30	3,478.1	93.4	173.4	5,900	1.0	1.8	<20	<0.20	<0.20	49.54	0.01	0.02	0.31	0.003	0.003	99.4	3.1	3.1
8/4/14		7:40	3,600.4	95.1	175.1	3,800	4.0	1.4	<20	<0.20	<0.20	41.47	0.02	0.01	0.31	0.003	0.003	99.2	208.7	211.8
9/8/14		8:10	4,247.0	120.3	200.3	410	0.45	0.80	<20	<0.20	<0.20	22.77	0.02	0.01	0.36	0.004	0.004	98.4	613.5	825.3

Legend / Key:

acfm = actual cubic feet per minute

GRO = gasoline range organics

Conc. = concentration

Sys. = system

scfm = standard cubic feet per minute

MTBE = methyl tertiary butyl ether

lbs/day = pounds per day

mg/m³ = milligrams per cubic meter

Hour meter readings are approximate based on the generator hours recorded on the field data sheets. Hour meter readings were not taken at exact sampling times, therefore, times noted are readings obtained closest to the actual sampling times.

²Effluent Flow rate = System Influent flow rate + combustion air flow rate (80 cfm per manufacturer)

To calculate the extraction rate, the system influent concentrations are averaged between the sampling dates.

Sample Calculations:

Extraction Rate from

Sys Inf Flowrate (ft^3/min) x Avg. Inf Conc (mg/m^3) x (1 lb/453,593mg) x (1,440 min/day) x (1 m³/35.314ft³)

Wells (lbs/day)

Destruction Removal

(Extraction Rate - Emission Rate) x 100

Efficiency, %

Extraction Rate

Notes:

1 DPE test, extracting from extraction wells EX-2 through EX-7. GRO removed is calculated based on assuming 1.5 hours of operation occurred from start of test to first sample time.

TABLE 7
GROUNDWATER EXTRACTION COMPONENT - GROUNDWATER ANALYTICAL DATA SUMMARY
DPE REMEDIATION EVENT

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date	Notes	Sample	Sample Location	Laboratory Sample ID	GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	МТВЕ
		Time	Location		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
07/21/14	1	7:43	WINF	STR14072144-01A	310	3.3	<0.50	<0.50	<0.50	37
		7:54	WGAC1	STR14072240-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:47	WGAC2	STR14072240-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		9:00	WEFF	STR14072145-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
07/29/14		5:55	WEFF	STR14072940-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
08/18/14		7:15	WINF	STR14081941-01A	170	3.4	<0.50	0.97	<0.50	39
		7:10	WGAC1	STR14081942-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
ĺ		7:05	WGAC2	STR14081942-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:00	WEFF	STR14081940-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
09/08/14		7:55	WINF	STR14090941-01A	<50	0.89	<0.50	<0.50	<0.50	12
		7:50	WGAC1	STR14090942-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:45	WGAC2	STR14090942-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:40	WEFF	STR14090940-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50

Legend / Key:

GRO = Gasoline Range Organics C4-C13

MTBE = Methyl tertiary butyl ether

BTEX = Benzene, toluene, ethylbenzene, xylenes

μg/L = micrograms per liter

-- = Not analyzed

Analytical Methods /Laboratory:

GRO analyzed using EPA Method SW8015B/SW8260B

BTEX and MTBE analyzed using EPA Method SW8260B

Samples analyzed by Alpha Analytical, Inc. (ELAP #2019)

Notes:

1 DPE test, extracting from extraction wells EX-2 through EX-7.

TABLE 8 GROUNDWATER EXTRACTION COMPONENT - GROUNDWATER ANALYTICAL DATA SUMMARY DPE REMEDIATION EVENT

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Data	otes	Sample	Sample	T -1 t (1 1- TD)	Mercury	Cyanide	Cr	Ni	Cu	Zn	As	Se	Ag	Cd	Pb	Phenols
Date	ž	Time	Location	Laboratory Sample ID	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
07/21/14	1	7:43	WINF	STR14072144-01A	<0.20	< 0.0001	<10	<10	<20	<100	<5.0	5.8	<5.0	<2.0	6.7	<5.0
		7:54	WGAC1	STR14072240-01A						_						
		7:47	WGAC2	STR14072240-02A						-						
		9:00	WEFF	STR14072145-01A	<0.20	< 0.0001	<10	<10	<20	<100	7.7	<5.0	<5.0	<2.0	<5.0	<5.0

Legend / Key:

Phenols = Pentachlorophenol and 2,3,4,6-Tetrachlorophenol

Analytical Methods /Laboratory:

Metals analyzed using EPA Method 200.8

Mercury analyzed using EPA Method 245.1

Phenols analyzed using EPA Method SW8270C-SIM

Cyanide analyzed using EPA Method SM4500-CNE

Alpha Analytical, Inc. (Califrnia #2019; NELAC #01154CA)

μg/L = micrograms per liter

= Not analyzed

Notes:

1 DPE test, extracting from extraction wells EX-2 through EX-7. Extended analytical results obtained to compy with groundwater discharge permit requirements.

TABLE 9 GROUNDWATER EXTRACTION COMPONENT - OPERATIONAL PERFORMANCE AND MASS REMOVAL SUMMARY **DPE REMEDIATION EVENT**

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

				Sewer Discharge Data			Ana	lytical Re	sults	Mass Removed			Cumulative			
									Influent		7	This Perio	d ^b		Mass Ren	noved
Date	Notes	Sample Time	Hour Meter Reading ¹	Totalizer Reading (gallons)	Period (gallons)	Cumulative Flow (gallons)	Average Sewer Discharge Flow Rate (gpm) ^a	GRO (μg/L)	Benzene (μg/L)	MTBE (μg/L)	GRO (lbs)	Benzene (lbs)	MTBE (lbs)	GRO (lbs)	Benzene (lbs)	MTBE (lbs)
7/21/14	1	7:43	3,478.1	60,440								Start of 7	Γest			
07/29/14		5:55	3,599.7	110,120	49,680	49,680	6.81	310	3.3	37	0.13	0.0014	0.015	0.13	0.0014	0.015
08/18/14		7:15	3,862.0	196,310	86,190	135,870	5.48	170	3.4	39	0.17	0.0024	0.027	0.30	0.0038	0.043
09/08/14		7:55	4,247.0	305,370	109,060	244,930	4.72	<50	0.89	12	0.10	0.0020	0.023	0.40	0.0057	0.066
Legend / Ke	gend / Key: Analytical Methods /Laboratory:															

GRO = Gasoline Range Organics C4-C13

MTBE = Methyl tertiary butyl ether

 $\mu g/L = micrograms per liter$ gpm = gallons per minute

lbs = pounds

-- = data not collected/not calculated

GRO analyzed using EPA Method SW8015B/SW8260B

Benzene and MTBE analyzed using EPA Method SW8260B

Alpha Analytical, Inc. (ELAP # 2019)

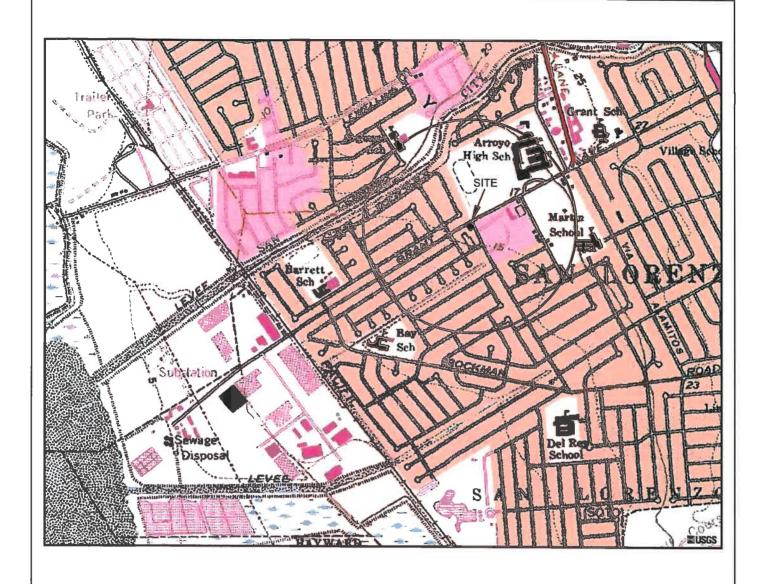
Notes:

DPE test, extracting from extraction wells EX-2 through EX-7.

^a Not representative of actual flow rate, calculation affected by system down time.

b Mass removed this period (pounds) = Average concentration (μg/L)[between the sample dates] x Period gallons x (2.2046 x 10-9)(lb/μg)/ 0.26418 (gal/L)

Hour meter readings were not taken at exact sampling times, therefore, times noted are readings obtained closest to the actual sampling times.



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





APPROXIMATE SCALE



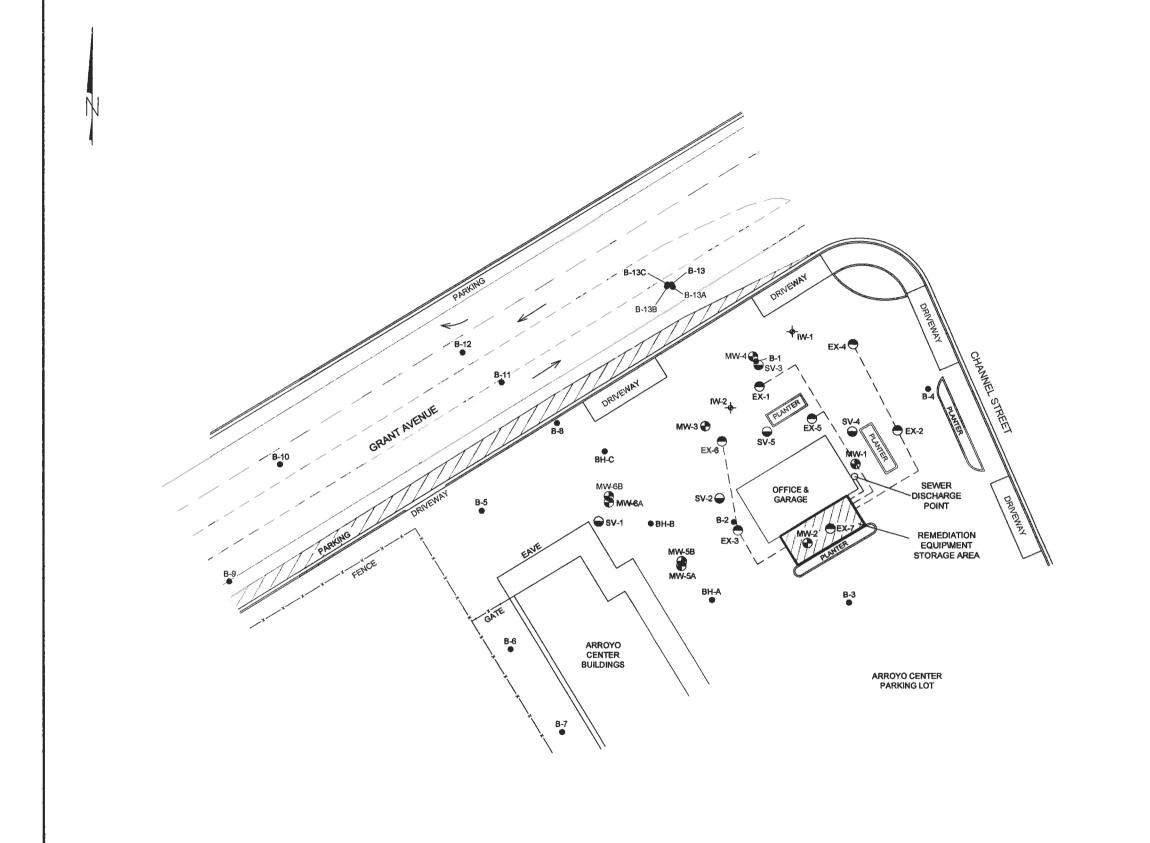
FORMER OLYMPIC SERVICE STATION 1436 GRANT AVENUE SAN LORENZO, CALIFORNIA

SITE LOCATION MAP

FIGURE

1

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

SOIL BORING LOCATION

APPROXIMATE LOCATIONS OF ABOVE GROUND CONVEYANCE PIPING/TUBING

STRATUS ENVIRONMENTAL, INC.

PATH NAME: Olympic DRAFTER INITIALS: JMP DATE LAST REVISED: September 30, 2014 FILENAME: Olympic Siteplan

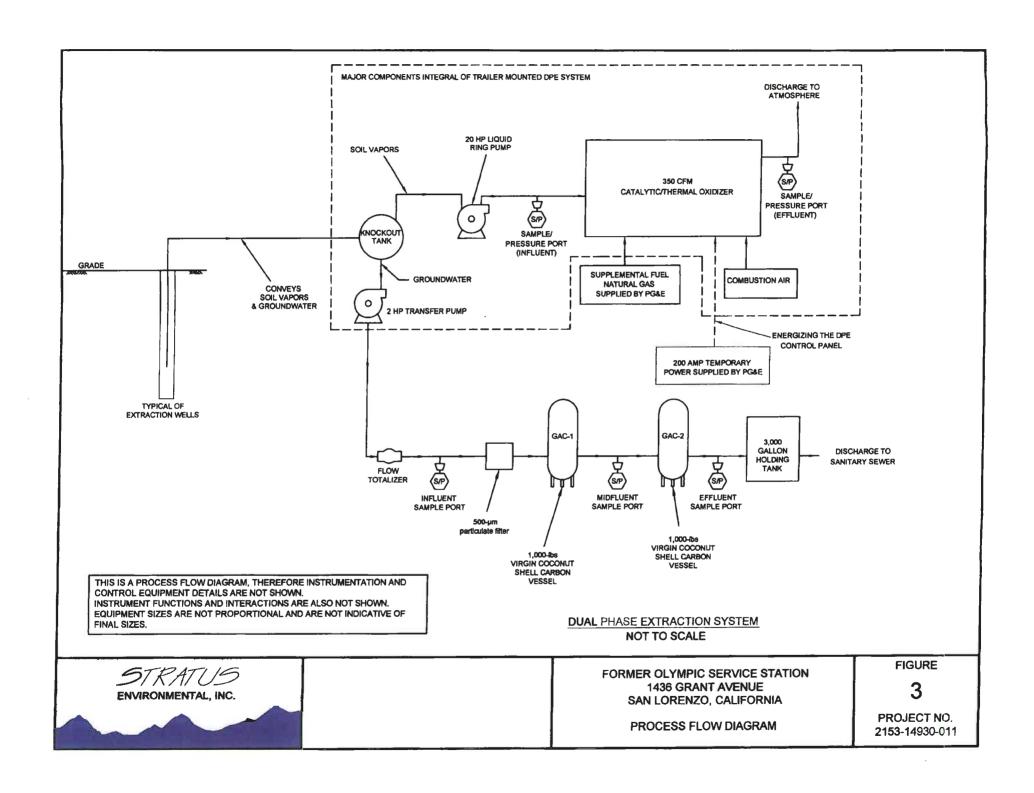


FORMER OLYMPIC SERVICE STATION 1436 GRANT AVENUE SAN LORENZO, CALIFORNIA

SITE PLAN

FIGURE 2

PROJECT NO. 2115-1436-01



APPENDIX A FIELD DATA SHEETS



Site Address 1436 Grant Auc	Site
City SAN LANGRO	Projec
Sampled by:	P
Signature	

Site Number	Olympic	Stateni
Project Number		-46-L
Project PM	SLOTT	
DATE	9-19-14	

	W	ater Level C	Data			Purge \	/olume Cal	rulations		_	Durge	Madha	al .				
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing	Actual water purged	No Purge		Metho Pump		DTW at sample time	Sample Reco	Comple	DO (mg/L)
nush	0500		8.61	9.61	1.0	2	15	.5	(gallons)		又			(feet) 8-75	54	0525	
MW6A	0518		8.80	9:85	1.5	2	15	15	.5		x			8.97		0537	
									·		\neg	-					
													\dashv				
													-				
										£.	-	+					
											1		7				

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)

	ALIBRATION DATE	
рН	91214	
Conductivity		
DO		

ORIGINAL



Site Address

City SAPP SAPE

Sampled By:

Signature OWV

Site Number Olympil
Project Number
Project PM
DATE 9/9/4

Well ID MW	5 A			.5	Well ID MW	64			٠, ٥
Purge start time			Odor	Ø N	Purge start time			Odor	Ø N
	Temp C	pН	cond	gallons		Temp C	pН	cond	gallons
time 850	210	7.93	668	82	time 0520	22.3	7.49	655	\$2
time 651 Z	Z1,4	7.80	667	,5	time 0522	22.9	7.46	663	10
time					time				
time					time				
purge stop time	1.11 0	0	ORP	376	purge stop time	1.657	0	ORP	354
Well ID					Well ID				
Purge start time			Odor	YN	Purge start time			Odor	YN
	Temp C	pН	cond	gallons		Тетр С	pН	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time	,	<u>. </u>	ORP	<u> </u>
Well ID					Well ID				
Purge start time	_		Odor	Y N	Purge start time			Odor	YN
	Temp C	рН	cond	gallons		Temp C	рH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	<u> </u>
Well ID					Well ID				
Purge start time			Odor '	Y N	Purge start time			Odor	YN
	Temp C	pН	cond	gallons		Temp C	рН	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time	<u> </u>		ORP		purge stop time			ORP	

1436 Grant Avenue San Lorenzo, California ORIGINAL

Onsite Time: 0600 Offsite Time: 0930		Technician: Project Engineer: Weather Conditions:	CHILL Deblore Clauds
		Ambient Temperature:	
	System	Information	
System Status Upon Arrival	: Operational	Non-Operationa	•
System Status Upon Depart	' 1	Non-Operationa	Sample y
Hour Meter Reading:	3478/1)	_	127
Totalizer Reading on DPE Unit:	60440 stat	Chart Recorder Paper Replaced	Yes No
		% Dilution Valve Open:	义
Combustion Chamber Operating Temperature:	1452	- If open, dilution air flowrate, (fpm/cfm) and Temp (deg F) pH Meter Calibration	1-19-14

			Field Me	asurements			
Para	ameter	Influent (Total)	System- Influent	Effluent		Comments	· · · · · ·
Differential F	Pressure, "wc						
Air Velocity,	FPM		2000				
Pipe Diamet	er, inches		3				
Air Flow Rat	e, cfm	mil.			-	·	·
Applied Vac	uum, "WC/"/Ag	110"46					·
Temperature	e, deg F		95	1411			
PID Reading	ıs, ppmv		310	1.6			
			Other Reading	gs/Measurer	nents		
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	\$				MW-1	87	7.80
EX-2	100			13	MW-2	8	7.38
EX-3				10	MW-3	B	7.45
EX-4				10	MW-4	8	7.40
EX-5				13	MW-5A	Ø	7.48
EX-6	-			10	MW-6A	8	7.60
EX-7				8			

INF 7.69 19.4 486 EFT7.60 19.6 512

1436 Grant Avenue San Lorenzo, California



		Samplin	g Information		
Sample ID		k Time	Sample ID	Date 8	& Time
A SYS INF 1024397-06	7-21-14	0730	WINF	72114	0743
A EFF 1024347-05	` }	0720	W GAC1		0754
			W GAC2		747
			W EFF		0900

Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-470
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resetable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
ТРН	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINF/WEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF//WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
рН	Start-up/Monthly	WINF, WEFF	Field measured

^{*} Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

1436 Grant Avenue San Lorenzo, California ORIGINAL

Onsite Time: Offsite Time: OSIV		Technician: Project Engineer: Weather Conditions: Ambient Temperature:				į	
		System	Information	1			
System Status Upon Arriva	l: O	perational		Non-Operational	Z	Restart Fuu 1	
System Status Upon Depar		perational	区	Non-Operational		FUU!	nee
Hour Meter Reading:	3480	7	-				
Totalizer Reading on DPE Unit:	61480 5	staut	Chart Recor	rder Paper	Yes No		
			% Dilution \	/alve Open:	_ yes)	
Combustion Chamber Operating Temperature:	1460		If open, dilu (fpm/cfm) a pH Meter C	tion air flowrate, nd Temp (deg F): alibration	8W/75%	/z"	
		Field Me	2001Homont				l

	Field Measurements						
Para	ameter	Influent (Total)	System- Influent	Effluent	Comments		
Differential F	Pressure, "wc						
Air Velocity,	FPM		2000				
Pipe Diamet	er, inches		3				
Air Flow Rat	e, cfm						
Applied Vac	uum, "WC/"Hg	19"16					
Temperature			95	1410			
PID Reading	js, ppmv		350	2.1			
		(Other Reading		ments		
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	8				MW-1		
EX-2	100			10	MW-2	-010	8.61
EX-3	100			10	MW-3	-1.00	9.32
EX-4	100			10	MW-4	7,52	7.86
EX-5	100			13	MW-5A	65	7.70
EX-6	100			10	MW-6A	-,50	7.73
EX-7	1000			5			
						-	

9 GPM - From Wells Cycling 14 GPM To Sever Cycling Page 1 of 2

1436 Grant Avenue San Lorenzo, California



	Samp	ling Information	
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF		WINF	
A EFF		W GAC1	
		W GAC2	
		W EFF	

Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resetable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
ТРН	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINF/WEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINFWEFF	EPA 200.8
Cyanide	Start-up	WINF//WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
pH	Start-up/Monthly	WINF, WEFF	Field measured

^{*} Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

1436 Grant Avenue San Lorenzo, California CHECKAL

Onsite Time: 0530 Offsite Time: 0615			Technician: Project Eng Weather Co Ambient Te	onditions:	Debre	
	··	System	Information	<u> </u>		
System Status Upon Arrival	:	Operational		Non-Operational		2
System Status Upon Depart	ture:	Operational		Non-Operational	Toun 84 Wast For	Lot
Hour Meter Reading:	3599	.7	-			
Totalizer Reading on DPE Unit:	1101	20	Chart Reco	rder Paper	Yes No	
Combustion Chamber	14/	25	% Dilution \	/alve Open:	<u> </u>	
Operating Temperature:			lf open, dilu (fpm/cfm) a	tion air flowrate, nd Temp (deg F):	720/760/2"	
			pH Meter C		7.25.14	

			Field Me	asurements			
Para	ameter	Influent (Total)	System- Influent	Effluent	Comments		
Differential F	ressure, "wc						
Air Velocity,	FPM ·		2260				
Pipe Diamet	er, inches		3				
Air Flow Rat							
Applied Vac	Jum, "WC/"(46)	16"46					
Temperature	e, deg F		90	1425			
PID Reading	ıs, ppmv		310	1.1			
		(Other Reading	gs/Measurem	ents		
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	Ø				MW-1	-(0)	9.10
EX-2	100				MW-2	-14	8198
EX-3					MW-3	-2,35	9.62
EX-4	<u> </u>				MW-4	-,75	8.74
EX-5	1				MW-5A	+,75	8,80
EX-6	100				MW-6A	-057	8.45
EX-7	8						
						-	

1436 Grant Avenue San Lorenzo, California



	Samp	oling Information	
Sample ID	Date & Time	Date & Time	
A SYS INF		W INF	
A EFF		W GAC1	
		W GAC2	
		W EFF	72914 7555

FFF 8:01 18:6 490

FFF 8:01 18:6 490
Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resetable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
TPH	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINFWEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINFWEFF	EPA 200.8
Cyanide	Start-up	WINF//WEFF	SM 4500 CN C,E
Phenols	Start-up	WINFWEFF	EPA 420.1
рН	Start-up/Monthly	WINF, WEFF	Field measured

^{*} Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

1436 Grant Avenue San Lorenzo, California



Date: Technician: Onsite Time: Project Engineer: Offsite Time: Weather Conditions: Ambient Temperature: System Information 1 Restact System Status Upon Arrival: Operational Non-Operational System Status Upon Departure: Operational Non-Operational 3600.4 Hour Meter Reading: Chart Recorder Paper Totalizer Reading on DPE Replaced Unit: % Dilution Valve Open: Combustion Chamber Operating Temperature: If open, dilution air flowrate, (fpm/cfm) and Temp (deg F): pH Meter Calibration

Field Measurements							
Para	ameter	Influent (Total)	System- Influent	Effluent	Comments		
Differential F	Pressure, "wc						
Air Velocity,	FPM		2000				
Pipe Diamet	er, inches		3				
Air Flow Rat	e, cfm						
Applied Vac	uum, "WC/1Hg)	15"Mb				7.	
Temperature			85	1430	-		
PID Reading	gs, ppmv		300	1.2			
			Other Readings/Measurements			· · · · · · · · · · · · · · · · · ·	
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	A				MW-1	CAR	
EX-2	100				MW-2	30	8.44
EX-3	100				MW-3	-1,37	8,83
EX-4	100				MW-4	-042	7.73
EX-5	100				MW-5A	-,41	8.25
EX-6	100				MW-6A	39	8.21
EX-7	100			5			
				L			



1436 Grant Avenue San Lorenzo, California

Sampling Information						
Sample ID	Date & Time	Sample ID	Date & Time			
A SYS INF 1024397-4	18414 0740	WINF NO				
A EFF 1024397.01	0734	W GAC1				
		W GAC2	11551			
		WEFF JUST S	m D W 1-29-19			

Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resetable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm

	Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
	TPH	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
	GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
	BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
	MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
-	BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
	Lead	Start-up	WINFWEFF	EPA 200.8
	Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
	Cyanide	Start-up	WINF//WEFF	SM 4500 CN C,E
	Phenols	Start-up	WINF/WEFF	EPA 420.1
	pH	Start-up/Monthly	WINF, WEFF	Field measured

^{*} Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

1436 Grant Avenue San Lorenzo, California

ORIGINAL	ORIGIN	la.	
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Date: 8-18-18 Onsite Time: 0630 Offsite Time: 0 7 45	(Technician: Project Engineer: Weather Conditions: Ambient Temperature:	CHILL Debbre Cloudy 52	
	Syster	Information	11. 1 Fold	
System Status Upon Arrival	Operationa	Non-Operationa	While ABIBAL	en po
System Status Upon Depart		Non-Operationa	·	•
Hour Meter Reading:	3862	_	_	
Totalizer Reading on DPE Unit:	196310	Chart Recorder Paper Replaced	Yes	
Combustion Chamber	1475	% Dilution Valve Open:		
Operating Temperature:		 If open, dilution air flowrate, (fpm/cfm) and Temp (deg F): 		
		pH Meter Calibration	8-15-14	

	Field Measurements						
Par	ameter	Influent (Total)	System- Influent	Effluent			
Differential F	Pressure, "wc						
Air Velocity,	FPM		2350				
Pipe Diamet	er, inches		3				
Air Flow Rat	e, cfm						
Applied Vac	uum, "WC/H	13"Hb					
Temperature	e, deg F		90	1426			
PID Reading	js, ppmv		110	2,3			
		(Other Reading	gs/Measurer	nents		
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	₩-				MW-1	CAIL	
EX-2	100			10	MW-2	- 055	8.47
EX-3	100			10	MW-3	04	8.95
EX-4	100			10	MW-4	-,30	8.23
EX-5 EX-6	180			13	MW-5A	-036	8.50
EX-7	110			5	MW-6A	-,32	8.52

1436 Grant Avenue San Lorenzo, California



	Samp	ling Information			
Sample ID	Date & Time	San	nple ID P#	Date	& Time
A SYS INF		WINF	7.87	81814	0715
A EFF		W GAC1		1	0710
		W GAC2			0705
		W EFF	7.89		0700

14 GPM TO Sever
Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resetable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm
Replace Fuse - Amps Not High on Pump
Replace Fish - Amps Not High on Pump Clean Float Tube + Floats Restort system

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
ТРН	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AÉFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINFWEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF//WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
рН	Start-up/Monthly	WINF, WEFF	Field measured

^{*} Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

1436 Grant Avenue San Lorenzo, California

Engo.	
19X1. I.	13.

Date: 7-8-730 Offsite Time: 7830	€	Technician: Project Engineer: Weather Conditions: Ambient Temperature:	OHILL Deblase Cleur
	System	Information	
System Status Upon Arrival:	Operational	Non-Operational	
System Status Upon Departui	re: Operational	Non-Operational	
Hour Meter Reading:	4247	-	
Totalizer Reading on DPE Unit:	305 370	Chart Recorder Paper Replaced % Dilution Valve Open:	Yes No
Combustion Chamber Operating Temperature: —	1463	If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	
	<u> </u>	pH Meter Calibration	9.5.15

	Field Measurements						
Par	ameter	Influent (Total)	System- Influent	Effluent	Comments		
Differential I	Pressure, "wc						
Air Velocity,	FPM		2600				
Pipe Diame	ter, inches	,	3				
Air Flow Rat	te, cfm						
Applied Vac	uum, "WC/"/Ag	12"Hb					
Temperatur			100	1422			
PID Reading	gs, ppmv		90	2.1			
			Other Reading	gs/Measurem	nents		
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1					MW-1	-0.01	9.09
EX-2	100				MW-2	-,49	8.87
EX-3	100				MW-3	-1.19	9,37
EX-4	100				MW-4	CAR	
EX-5	100				MW-5A	-,40	9.53
EX-6	100				MW-6A	-,34	8.69
EX-7	100						
						1	1

1436 Grant Avenue San Lorenzo, California



	Samplin	g Information				
Sample ID	Date & Time	Date & Time Sample ID Date & Time				
A SYS INF1024624 02	9814 0910	W INF	4814 0755			
A EFF 1024824-04	7 0805	W GAC1	0750			
		W GAC2	0745			
PH 1W/- 7.81		W EFF	0740			

EFF 7.87

	Operation & Maintenance Notes
Notes:	
Notify air board	d a minimum of 5-days prior to initial start up
Twice a month	monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
	s Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
	struments (e.g. pH meter)
Flow meter sp	ecifications to be approved by District and include a non-resetable totalizer
Collect initial w	vater sample after minimum of 508 gallons
Max discharge	e rate not to exceed 20gpm

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
ТРН	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINF/WEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF//WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
рН	Start-up/Monthly	WINF, WEFF	Field measured

^{*} Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

1436 Grant Avenue San Lorenzo, California ORILINAL

		Technician: Project Engineer: Weather Conditions: Ambient Temperature:	Pessin Clin
			30
	System	Information	
System Status Upon Arrival	: Operational	Non-Operational	
System Status Upon Depar	ture: Operational	Non-Operational	
Hour Meter Reading:	4509	· -	
Totalizer Reading on DPE Unit:	374 <i>710</i>	Chart Recorder Paper Replaced	Yes No
	11/1.//	% Dilution Valve Open:	8
Combustion Chamber Operating Temperature:	1404	If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	
		pH Meter Calibration	XLS 9-12-14

			Field Me	asurements			
Par	ameter	Influent (Total)	System- Influent	Effluent	Comments		ı
Differential F	Pressure, "wc						
Air Velocity,	FPM		2700				
Pipe Diamet	ter, inches	10	3				
Air Flow Rat							·
Applied Vac	uum, "WC/Hg	12"HU					
Temperature			100	1424			
PID Reading	js, ppmv		150	1.7			
			Other Reading	gs/Measuren	nents	· · · · · · · · · · · · · · · · · · ·	
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WZ/"Hg	DTW
EX-1	8				MW-1	8	9.16
EX-2	100				MW-2	50	898
EX-3	100				MW-3	-3.53	9.47
EX-4	100				MW-4	CAIZ	
EX-5	100				MW-5A	40	8.61
EX-6	100				MW-6A	37	8.80 8.
EX-7	100						
	 -					-	

1436 Grant Avenue San Lorenzo, California



	Samp	ling Information				
Sample ID Date & Time Sample ID Date & T						
A SYS INF		WINF				
A EFF		W GAC1				
		W GAC2				
		W EFF				

Operation & Maintenance Notes	
Notes:	
Notify air board a minimum of 5-days prior to initial start up	
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit	
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 27	·6-4700
Calibrate all instruments (e.g. pH meter)	
Flow meter specifications to be approved by District and include a non-resetable totalizer	
Collect initial water sample after minimum of 508 gallons	. •
Max discharge rate not to exceed 20gpm	

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
ТРН	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINFWEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF//WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
pH	Start-up/Monthly	WINF, WEFF	Field measured

^{*} Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

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 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

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: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received: 09/20/14

Job:

Olympic Station

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

		Parameter	Concentrati	on	Reporting	Date	Date
					Limit	Extracted	Analyzed
Client ID:	MW 5A						
Lab ID:	STR14092241-01A	TPH-P (GRO)	18,000	,	1,000 μg/L	09/25/14	09/25/14
Date Sampled	09/19/14 05:25	Methyl tert-butyl ether (MTBE)	ND	V	5.0 μ g/ L	09/25/14	09/25/14
		Benzene	1,900		5.0 μg/L	09/25/14	09/25/14
		Toluene	11		5.0 μg/L	09/25/14	09/25/14
		Ethylbenzene	1,200		5.0 μ g/L	09/25/14	09/25/14
		m,p-Xylene	830		5.0 μg/L	09/25/14	09/25/14
		o-Xylene	9.9		5.0 μg/L	09/25/14	09/25/14
Client ID:	MW 6A						
Lab ID:	STR14092241-02A	TPH-P (GRO)	28,000		2,000 μg/L	09/25/14	09/25/14
Date Sampled	09/19/14 05:37	Methyl tert-butyl ether (MTBE)	45		10 μ g/ L	09/25/14	09/25/14
		Benzene	3,400		10 μg/L	09/25/14	09/25/14
		Toluene	19		10 μ g/ L	09/25/14	09/25/14
		Ethylbenzene	2,000		10 μ g/ L	09/25/14	09/25/14
		m,p-Xylene	1,900		10 μg/L	09/25/14	09/25/14
		o-Xylene	ND	V	10 μg/L	09/25/14	09/25/14

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.

ACLASS
ACCEPTATED
DED ELAP

Roger Scholl

Kandy Soulmer

Walter Hirihan

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Secremento, 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

9/29

Report Date



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

VOC Sample Preservation Report

Work Order: STR14092241

Job:

Olympic Station

	<u> </u>			
Alpha's Sample ID	Client's Sample ID	Matrix	pH	
14092241-01A	MW 5A	Aqueous	2	· = .
14092241-02A	MW 6A	Aqueous	3	

9/29/14

Report Date

Page 1 of 1



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

Date: 29-Sep-14	(QC S	ummar	y Report	,		0	Work Order: 14092241		
Method Blank		Type N	IBLK To	est Code: EP	A Met	hod SW80	15B/C / SW8260B			
File ID: 14092505.D			Ba	atch ID: MSO	9W092	25B	Analysis Date:	09/25/2014 12:17		
Sample ID: MBLK MS09W0925B	Units : µg/L		Run ID: M	SD_09_1409	25A		Prep Date:	09/25/2014 12:17		
Analyte	Result	PQL				LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual	
TPH-P (GRO)	ND	50)							
Surr: 1,2-Dichloroethane-d4	7.94		10		79	70	130			
Surr: Toluene-d8	11.5		10		115	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130		_	
Laboratory Control Spike		Type L	.CS To	est Code: EP	A Met	hod SW80	15B/C / SW8260B			
File ID: 14092504.D			Ba	atch ID: MSO	9W092	25B	Analysis Date:	09/25/2014 11:32		
Sample ID: GLCS MS09W0925B	Units : µg/L		Run ID: M	SD_09_1409	25A		Prep Date:	09/25/2014 11:32		
Analyte	Result	PQL	SpkVal	SpkRefVal ⁴	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual	
TPH-P (GRO)	360	50	400		90	70	130			
Surr: 1,2-Dichloroethane-d4	8.89		10		89	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	9.65		10	<u> </u>	97	70	130			
Sample Matrix Spike		Type N	AS TO	est Code: EP	A Met	hod SW80	15B/C / SW8260B			
File ID: 14092520.D			B	atch ID: MS0	9W092	25B	Analysis Date:	09/25/2014 18:15		
Sample ID: 14091941-08AGS	Units : µg/L		Run ID: M	SD_09_1409	25A		Prep Date:	09/25/2014 18:15		
Analyte	Result	PQL	SpkVal	SpkRefVal ⁴	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual	
TPH-P (GRO)	1840	250	2000	93.86	87	54	143			
Surr: 1,2-Dichloroethane-d4	40.1		50		80	70	130			
Surr: Toluene-d8	53.4		50		107	70	130			
Surr: 4-Bromofluorobenzene	50.2		50		100	70	130			
Sample Matrix Spike Duplicate		Type I	ASD To	est Code: EP	A Met	hod SW80	15B/C / SW8260B			
File ID: 14092521.D			B	atch ID: MS0	9W092	25B	-	09/25/2014 18:39		
Sample ID: 14091941-08AGSD	Units : µg/L		Run ID: M	SD_09_1409	25A		Prep Date:	09/25/2014 18:39		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual	
TPH-P (GRO)	2130	250	2000	93.86	102	- 54	143 184	1 14.5(23)		
Surr: 1,2-Dichloroethane-d4	39.9		50		80	70	130			
Surr: Toluene-d8	53.8		50		108	70	130			
Surr: 4-Bromofluorobenzene	51		50		102	70	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.



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Date: 29-Sep-14	(Work Ord 1409224								
Method Blank		Type N	IBLK T	est Code: E	PA Met	hod SW8:	260B			
File ID: 14092505.D			В	atch ID: MS	09W092	25A	Analy	sis Date:	09/25/2014 12:17	
Sample ID: MBLK MS09W0925A	Units : µg/L		Run ID: M	SD_09_140	925A		Prep		09/25/2014 12:17	
Analyte	Result	PQL				LCL(ME)	•		/al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5			,,,,,_,		000()	111 011011	or rora D(Linky	
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	ND 7.04	0.5				~~				
Surr: Toluene-d8	7.94 11.5		10 10		79 115	70 70	130		•	
Surr: 4-Bromofluorobenzene	10.5		10		105	70 70	130 130			
Laboratory Control Spike		Type L		est Code: E				_		
File ID: 14092503.D		.,,,,,		atch ID: MS				sis Date	09/25/2014 11:08	
Sample ID: LCS MS09W0925A	Units : µg/L			SD_09_140			Prep		09/25/2014 11:08	
Analyte	Result	PQL				LCL(ME)	•		/al %RPD(Limit)	Quai
Methyl tert-butyl ether (MTBE)	8.92	0.5			89	63	137		()	
Benzene	9.43	0.5			94	70	130			
Toluene	9.91	0.5	10		99	80	120			
Ethylbenzene	10.6	0.5			106	80	120			
m,p-Xylene o-Xylene	9.8	0.5		•	98	65	139			
Surr: 1,2-Dichloroethane-d4	9.39 9.37	0.5			94	70 70	130			
Surr: Toluene-d8	10		10 10		94 100	70 70	130 130			
Surr: 4-Bromofluorobenzene	8.84		10		88	70	130			
Sample Matrix Spike		Type N	IS T	est Code: El	PA Met	hod SW8	260B			
File ID: 14092518.D			В	atch ID: MS	09W092	25A	Analy	sis Date:	09/25/2014 17:28	
Sample ID: 14091941-08AMS	Units : µg/L		Run ID: M	SD_09_140	925A		Prep		09/25/2014 17:28	
Analyte	Result	PQL				LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	114	1.3		63.04	102	56	140			
Benzene	59.3	1.3		1.09	116	67	134			
Toluene	62.1	1.3		0	124	38	130			
Ethylbenzene	65.5	1.3		0	131	70	130			M1
m,p-Xylene	60.1	1.3		0	120	65	139			
o-Xylene Surr: 1,2-Dichloroethane-d4	58	1.3		0	116	69	130			
Surr: Toluene-d8	43 50.9		50		86	70 70	130			
Surr: 4-Bromofluorobenzene	46.9		50 50		102 94	70 70	130 130			
Sample Matrix Spike Duplicate		Type N	ISD T	est Code: El	PA Met	hod SW82				_
File ID: 14092519.D		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		atch ID: MS				sis Date:	09/25/2014 17:51	
Sample ID: 14091941-08AMSD	Units : µg/L			SD_09_140			Prep (09/25/2014 17:51	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	-		/al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	121	1.3	50	63.04	115	56	140	114	5.6(40)	
Benzene	62.6	1.3	50	1.09		67	134	59.29		
Toluene	67.3	1.3		0	135	38	130	62.08		M1
Ethylbenzene	70.7	1.3	50	0	141	70	130	65.53	7.7(20)	M1
m,p-Xylene	65.1	1.3		0	130	65	139	60.14		
o-Xylene	62.4	1.3	50	0	125	69	130	57.97		
				-					()	
Surr: 1,2-Dichloroethane-d4	41.6		50		83	70	130		(=5)	
Surr: 1,2-Dichloroethane-04 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	



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Date:	
29-Sen-14	

QC Summary Report

Work Order: 14092241

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.

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

EMall Address Report Attention Phone Number sbittinger@stratusinc.net (530) 676-2062 x Scott Bittinger

EDD Required: Yes

Sampled by : C. Hill

WorkOrder: STR14092241

Report Due By: 5:00 PM On: 29-Sep-14

Samples Received **Date Printed** Cooler Temp 20-Sep-14 22-Sep-14 0°C

Page: 1 of 1

Sulte 550

Stratus Environmental

3330 Cameron Park Drive

Cameron Park, CA 95682-8861

PO:

Client:

Client's COC #: 16825

Olympic Station

- Final Pat MRI K LCS MS/MSD With Surrogates

									Reques	ted Tests		
Alpha Sample ID	Client Sample ID	Coll Matrix D			Bottles Sub		TPH/P_W	VOC_W				Sample Remarks
STR14092241-01A	MW 5A		19/14 5:25	3	0	5	GAS-C	втхе/м_с				
STR14092241-02A	MW 6A		19/1 <i>4</i> 5:37	3	0	5	GAS-C	BTXE/M_C				

Comments:

Security seals intact. Frozen ice. Saturday delivery; kept cold and secure until login on Monday, 9/22/14.:

Date/Time Print Name Company Signature ARIADNA CHACON 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. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(DrinkIng Water) OT(Other)

Company:

Attn:

Address:

City, State, Zip:

Company:



Alpha Analytical, Inc.

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguaz St., Suite O, Carson, CA 90748 Northern NV: 1250 Larnollie Hwy., #310, Elko, NV 89801 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 916-366-9089
Phone: 714-386-2901
Phone: 775-388-7043
Phone: 702-281-4848

Phone: 775-355-1044

Fax: 775-355-0406

16825

Page# _____ of ____

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			* Key: AQ - Aqueous	WA - Waste	OT - Other So-Soil **-L	-Liter \	/ - VOA	S-Soll	Jar	O - Orbo	T-	Tedlar B	- Brass	P - Plas	tic O	T - Other			
NOTE: Sam	ples are disc	carded 60 de		her arrangements are	made. Hazardous samples will be returned t					report for t	the enalysi	of the above	samples is	applicable or	nty to those	samples			



Report Number: 88741

Date: 07/22/2014

Laboratory Results

Debbie Barr Stratus Environmental, Inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682

Subject : 2 Vapor Samples
Project Name : Olympic Station

Project Number:

Dear Ms. Barr,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC.

Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Troy D. Turpen



Project Name : Olympic Station

Project Number:

Date: 07/22/2014

Report Number: 88741

Sample: Oly A SYSINF Matrix: Air Lab Number: 88741-01

Sample Date: 07/21/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	1.0	0.70	mg/m3	EPA 8260B	07/21/14 20:25
Toluene	< 0.70	0.70	mg/m3	EPA 8260B	07/21/14 20:25
Ethylbenzene	< 0.70	0.70	mg/m3	EPA 8260B	07/21/14 20:25
Total Xylenes	< 0.70	0.70	mg/m3	EPA 8260B	07/21/14 20:25
Methyl-t-butyl ether (MTBE)	1.8	0.70	mg/m3	EPA 8260B	07/21/14 20:25
TPH as Gasoline	5900	70	mg/m3	EPA 8260B	07/21/14 20:25
1,2-Dichloroethane-d4 (Surr)	98.3		% Recovery	EPA 8260B	07/21/14 20:25
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	07/21/14 20:25

Sample: Oly A EFF Matrix: Air Lab Number: 88741-02

Sample Date :07/21/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	07/21/14 21:33
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	07/21/14 21:33
Ethylbenzene	< 0.25	0.25	mg/m3	EPA 8260B	07/21/14 21:33
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	07/21/14 21:33
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	07/21/14 21:33
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	07/21/14 21:33
1,2-Dichloroethane-d4 (Surr)	98.8		% Recovery	EPA 8260B	07/21/14 21:33
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	07/21/14 21:33

Report Number: 88741

Date: 07/22/2014

QC Report : Method Blank Data

Project Name : Olympic Station

Project Number:

Measured	Method Reporting	1	Analysis	Date
Value	Limit	Units	Method	<u>Analyzed</u>
< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
< 20	20	mg/m3	EPA 8260B	07/21/2014
98.4		%	EPA 8260B	07/21/2014
100		%	EPA 8260B	07/21/2014
	Value < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 0.20 < 98.4	Measured Value Reporting Limit < 0.20	Measured Value Reporting Limit Units < 0.20	Measured Value Reporting Limit Analysis Method < 0.20

		Method	1		
	Measured	Reporti	ng	Analysis	Date
<u>Parameter</u>	Value	Limit	Units	Method	Analyzed

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Project Name: Olympic 5	tatio	n	Invoi	ice	To:	rul	/	2								Gas (8015)		BTEX: Benzene Toluene Ethylbenzene Total Xylenes		MTBE DIPE	etes plus):	1,2 DCA 1	Halogenated Volatile Organic Compounds	Volatile Organic Compounds Full List	Volatile Organics by EPA Method 524.2		individual Metals (list and enter method)	Nitrate as N Nitrite as N Perrous Iron	☐ Nitrate as NO ₃ ☐ Nitrite as NO ₂	PA 7199							ΡŪ
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Chain-of-Custody:		Yes		No		16	Labels		13CI opanion	53.
is COC present?		×	-		Sample ID	 X	 			
Is COC signed by re	elinquisher?	— X			Project ID	_X_	 			
Is COC dated by rel	inquisher?	X			Sample Date	X	121			
Is the sampler's nar	ne on the COC?	\times			Sample Time	X	X			
	or hold for all samples?	X			Does COC match			N/A	Yes	□No
Samples:		N/A	Yes	No	Comments: Te	dla	vs 102	-4397 -	05 2 06	۶ ،
Are sample custody	seals intact?	X			MUAS 072	2114	1958			
Are sample contained			X							
Is preservation docu		8	-7-							
In-house Analysis:		N/A	Yes	No				=.		
Are preservatives a	cceptable?	<u>\</u>								
Are samples within	holding time?		Ø							
Are sample contained			W]					
Is there adequate sa	ample volume?		10							
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Report Number: 88839

Date: 08/05/2014

Laboratory Results

Debbie Barr Stratus Environmental, Inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682

Subject : 2 Vapor Samples
Project Name : Olympic Station

Project Number:

Dear Ms. Barr,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC.

Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Troy D. Turpen



Project Name: Olympic Station

Project Number:

Matrix : Air

Lab Number: 88839-01

Report Number: 88839

Date: 08/05/2014

Sample: SYS INF A Oly Sample Date: 08/04/2014

Sample Date :08/04/2014		National Control			
Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	4.0	0.50	mg/m3	EPA 8260B	08/04/14 17:32
Toluene	< 0.50	0.50	mg/m3	EPA 8260B	08/04/14 17:32
Ethylbenzene	0.71	0.50	mg/m3	EPA 8260B	08/04/14 17:32
Total Xylenes	< 0.50	0.50	mg/m3	EPA 8260B	08/04/14 17:32
Methyl-t-butyl ether (MTBE)	1.4	0.50	mg/m3	EPA 8260B	08/04/14 17:32
TPH as Gasoline	3800	50	mg/m3	EPA 8260B	08/04/14 17:32
1,2-Dichloroethane-d4 (Surr) Toluene - d8 (Surr)	100 98.3		% Recovery % Recovery	EPA 8260B EPA 8260B	08/04/14 17:32 08/04/14 17:32

Sample: EFF A Oly Matrix: Air Lab Number: 88839-02

Sample Date :08/04/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	08/04/14 14:52
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	08/04/14 14:52
Ethylbenzene	< 0.25	0.25	mg/m3	EPA 8260B	08/04/14 14:52
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	08/04/14 14:52
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	08/04/14 14:52
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	08/04/14 14:52
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	08/04/14 14:52
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	08/04/14 14:52

Report Number: 88839

Date: 08/05/2014

QC Report : Method Blank Data

Project Name : Olympic Station

Project Number :

	Measured	Method Reporti	=	Analysis	Date
Parameter	Value	Limit	Units	Method	<u>Analyzed</u>
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	08/04/2014
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	08/04/2014
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	08/04/2014
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	08/04/2014
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	08/04/2014
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	08/04/2014
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	08/04/2014
Toluene - d8 (Surr)	99.1		%	EPA 8260B	08/04/2014

		Method			
	Measured	Reporti	ng	Analysis	Date
<u>Parameter</u>	Value	Limit	Units	Method	Analyzed

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TAT: Standard	☐ Rush 🔯 S	Split None	Method of Receipt:	□ Co	ourier 🖔	Over-the-cou	nter Shipped
Temp °C	N/A Therm ID	Time	Coolant present	Yes	□No	Water	☐ Temp Excursion
For Shipments Only:	Cooler Receipt Initials/	/Date/Time:		Custo	ody Seals	□ N/A [☐ Intact ☐ Broken
Chain-of-Custody:		Yes No	Documented on	сос	Labels	Di	screpancies:
Is COC present?		X	Sample ID	X	X		
Is COC signed by reli	nquisher?	X	Project ID	X			
Is COC dated by relin	iquisher?	X	Sample Date	X	_X		
Is the sampler's name	e on the COC?	X	Sample Time	X	X		
Are there analyses or	r hold for all samples?	<u> </u>	Does COC match	project h	istory?	□ N/A	X Yes □ No
Samples:		N/A Yes No	Comments: 大	ff ta	g #5:	1024397-0	01, -20. TJB
Are sample custody s	eals intact?	X	080414 133	5			<u> </u>
Are sample container	s intact?	' ×	SMF to c	ontian	project	ID. Sam	ph ID suffexes
Is preservation docum	nented?	X	do not match	· proje	ect hist	Dry, MAS	ph ID suffexes 08044 1356
In-house Analysis:		N/A Yes No				·	
Are preservatives acc	ceptable?	X					
Are samples within he	olding time?	X					
Are sample container	types correct?	X					
Is there adequate sar	nple volume?	X					
Receipt Details:							
Matrix	Container Type	# of Containers					
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D 20 20 20 20 20 20 20 20 20 20 20 20 20			Proceed With Anal Client Communica		YES 🔲 I	NO Init/Da	ate:
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Report Number: 89089

Date: 09/09/2014

Laboratory Results

Debbie Barr Stratus Environmental, Inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682

Subject : 2 Vapor Samples
Project Name : Olympic Station

Project Number:

Dear Ms. Barr,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC.

Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Troy D. Turpen



Project Name: Olympic Station

Project Number:

Sample: Oly A SYS INF

Matrix : Air

Lab Number: 89089-01

Report Number: 89089 Date: 09/09/2014

Sample Date :09/08/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	0.45	0.20	mg/m3	EPA 8260B	09/08/14 23:15
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 23:15
Ethylbenzene	< 0.25	0.25	mg/m3	EPA 8260B	09/08/14 23:15
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 23:15
Methyl-t-butyl ether (MTBE)	0.80	0.20	mg/m3	EPA 8260B	09/08/14 23:15
TPH as Gasoline	410	20	mg/m3	EPA 8260B	09/08/14 23:15
1,2-Dichloroethane-d4 (Surr) Toluene - d8 (Surr)	99.2 95.8		% Recovery % Recovery	EPA 8260B EPA 8260B	09/08/14 23:15 09/08/14 23:15

Sample: Oly A EFF

Matrix: Air

Lab Number: 89089-02

Sample Date :09/08/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 18:13
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 18:13
Ethylbenzene	< 0.25	0.25	mg/m3	EPA 8260B	09/08/14 18:13
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 18:13
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 18:13
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	09/08/14 18:13
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	09/08/14 18:13
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	09/08/14 18:13

Report Number: 89089

Date: 09/09/2014

QC Report : Method Blank Data

Project Name : Olympic Station

Project Number:

	Measured	Method Reportin	а	Analysis	Date
Parameter	Value	Limi <u>t</u>	Units	Method	Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	09/08/2014
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	09/08/2014
Toluene - d8 (Surr)	100		%	EPA 8260B	09/08/2014
_				EDA COCOD	00/00/0044
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	09/08/2014
1,2-Dichloroethane-d4 (Surr)	99.6		%	EPA 8260B	09/08/2014
Toluene - d8 (Surr)	97.3		%	EPA 8260B	09/08/2014

		Method	l		
	Measured	Reporti	ng	Analysis	Date
Parameter	Value Value	Limit	Units	Method	Analyzed

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Company Strutus Addrase: 30 Culwin Phone Number: Fax Num 531676664 Project #: P.O. #:	ber:	005	EDD			ble To	•				•							ane To		[4	- 1		spun		4.2	CAM 17	.; Ø	Ferrous								e Only
Project #: P.O. #:			Sam	olin 37	g Cor	neany	r. •	8	amı		The state of the s	ature) :) Diesel		ylbenze		ETBE	Ethanol	1,2 EDB	Compo	Full Lis	thod 52		er meth	N.	as NO ₂							For Lab Use Only
Project Name: Olympic S	tatu	in	Invo	Sampling Company: Sampler Signature: Stuntus Notice To: Stuntus					Gas (8015)		BTEX Benzene Toluene Ethylbenzene Total Xylenes		E DIPE	etes plus):	1,2 DCA 1	Halogenated Volatile Organic Compounds	Volatile Organic Compounds Full List	Volatile Organics by EPA Method 524.2	Metals Group (Method:): CAN	ist and ent	☐ Nitrate as N ☐ Nitrite as N ☐ Ferrous Iron	Nitrate as NO ₃ Nitrite as	EPA 7199						For							
Project Address:	Sam	pling	#	of (Conta	iners	7	#	Pres	serv	ed			Mat			ecify):	آءِ آ		MTBE	Daygen	7	Volati	ig C	nics b	Methoc	tels (I	ľ	Š	A						
SAN LITENZO		Time	4OV	, ke	, s	ar	1			١		ā		Air	ır (specif)	K Gas (8260)	Other (specify):	Benzer	ıı,	genates:	7 Oxygenates (5 Oxygenates plus):	Lead Scavengers:	genated	tile Organ	tile Organ	ls Group (I	idual Me	Nitrate as	Nitrate 8:	Chromium VI by						
Sample Identification	Date	Time	6 n	See .	를 <u>용</u>	ied ied		되				Wat	Soil	Ą	o B	NA.	ŏ		MTBE	5 Охудел	7 0 0 0	Pead	물음	№	Vola	Metals	<u>Indi</u>			흉				\perp		
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Oly A SYS INF	9,84	0805				1			1	X				人		X		٢	X																	07
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Relinquished by (glgpsture/affiliation):	, Date	& Time/	1 1	F	Receiv	ed by	(sigi	natur	e/affi	liatio	n):	_		Dat	e & Time	-	_	Rem	narks	and	Spec	ial I	nstru	ction	s (co	mpo	site, filte	er, MS	S/MS	D, r	eturn	samp	oles, S	Silica (Sel, et	c.):
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Dac																				_																
Relinquished by (signature/affiliation):	Date	& Time		F	Recelv	ed by	Kiff	Anal	/tical	(sig	natur	e):		Dat	e & Time	5/4	-			aund C								~	7	· · ·						
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Distribution: Original - Lab; Copy - Originator Rev: 052113					-					1			7																							

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Sample Receipt	Initials/Date: W/ 5 8	908H s	Storag	e Tim	e: IIDO Samp	le Logir	n Initial	s/Date: 💯	090814			
TAT: Standa	ard Rush	S plit		lone	Method of Receipt:	C	ourier 💆	Dver-the-cou	inter Sh	ipped		
Temp °C	N/A Therm ID	Tim	e		Coolant present	Yes	s No	☐ Water	☐Temp	Excursion		
For Shipments Onl	y: Cooler Receipt Initia	als/Date/Ti	me:			Cust	ody Seals	□ N/A	Intact	Broken		
Chain-of-Custody		Yes		No	Documented on	COC Labels		D	iscrepancies:			
Is COC present?		X	<u>' </u>		Sample ID	/,						
Is COC signed by	relinquisher?	K			Project ID							
Is COC dated by re	elinquisher?	X			Sample Date							
Is the sampler's na	me on the COC?	X	2		Sample Time				<u> </u>			
Are there analyses	Y X	2		Does COC match	project l	nistory?	□ N/A	☑ Yes	No			
Samples:		N/A	Yes	No	Comments: By	45:	1024829	tor and	-01. Eg 090	814 1218		
Are sample custod	y seals intact?	X				<i></i>						
Are sample contain	ners intact?		X									
Is preservation dod	cumented?	V										
In-house Analysis	3 :	N/A	Yes	No								
Are preservatives	acceptable?	V										
Are samples within	holding time?		V		-							
Are sample contain	ner types correct?		9									
Is there adequate :	sample volume?		0									
Receipt Details:												
Matrix	Container Type	# of Co	ontaine	ers								
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ge					Client Communica	tion:						



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn: Trevor Hartwell Phone: (530) 676-6004

(530) 676-6005 Fax:

Date Received: 07/21/14

Olympic Job:

Mercury

EPA Method 245.1

Concentration Date Date **Parameter** Reporting Limit Extracted Analyzed Client lD: INF W Oly Lab ID: STR14072144-01A Mercury (Hg) 07/22/14 10:38 07/22/14 17:07 0.20 µg/L ND Date Sampled 07/21/14 07:43

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

Koger Scholl nto, 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 aftered 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

7/23/14

Report Date



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn:

Trevor Hartwell Phone: (530) 676-6004

Fax:

(530) 676-6005

Date Received: 07/21/14

Job:

Olympic

Metals by ICPMS

EPA Method 200.8

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: INF W Oly					
Lab ID: STR14072144-01A	Chromium (Cr)	ND	10 μg/L	07/22/14 12:18	07/22/14 17:55
Date Sampled 07/21/14 07:43	Nickel (Ni)	ND	10 μg/L	07/22/14 12:18	07/22/14 17:55
	Copper (Cu)	ND	20 μg/L	07/22/14 12:18	07/22/14 17:55
	Zinc (Zn)	ND	100 μg/L	07/22/14 12:18	07/22/14 17:55
	Arsenic (As)	ND	5.0 μg/L	07/22/14 12:18	07/22/14 17:55
	Selenium (Se)	5.8	5.0 μg/L	07/22/14 12:18	07/22/14 17:55
	Silver (Ag)	ND	5.0 μg/L	07/22/14 12:18	07/22/14 17:55
	Cadmium (Cd)	ND	2.0 μg/L	07/22/14 12:18	07/22/14 17:55
	Lead (Pb)	6.7	5.0 μg/L	07/22/14 12:18	07/22/14 17:55

This replaces the report signed 7/23/14 due to a change in the analyte list, due to lab error.

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl

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

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7/28/14 Report Date



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Client I.D. Number: INF W Oly

Attn:

Trevor Hartwell Phone: (530) 676-6004

Fax:

(530) 676-6005

Olympic Job:

Alpha Analytical Number: STR14072144-01A

Sampled: 07/21/14 07:43

Received: 07/21/14

Extracted: 07/22/14 12:20

Analyzed: 07/22/14

Phenols

EPA Method SW8270C - SIM

	Compound	Concentration	Reporting Limit	
1	Pentachlorophenol	ND	5.0 µg/L	
2	2,3,4,6-Tetrachlorophenol	ND	1.0 µg/L	

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl 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

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Report Date

Page 1 of 1



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn: Trevor Hartwell Phone: (530) 676-6004 Fax: (530) 676-6005

Date Received: 07/21/14

Job: Olympic

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

		Parameter	Concentration	Reporting	Date	Date
				Limit	Extracted	Analyzed
Client ID:	INF W Oly					·
Lab ID:	STR14072144-01A	TPH-P (GRO)	310	50 μg/L	07/23/14	07/23/14
Date Sampled	07/21/14 07:43	Methyl tert-butyl ether (MTBE)	37	0.50 μg/L	07/23/14	07/23/14
		Benzene	3.3	0.50 μg/L	07/23/14	07/23/14
		Toluene	ND	0.50 μg/L	07/23/14	07/23/14
		Ethylbenzene	ND	0.50 μg/L	07/23/14	07/23/14
		m,p-Xylene	ND	0.50 μg/L	07/23/14	07/23/14
		o-Xylene	ND	0.50 μg/L	07/23/14	07/23/14

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.

ACLASS

Roger Scholl Kandy Saulour

Walter Hincherson Observance Officer

oger 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.

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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

.

7/23/14

Report Date



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VOC Sample Preservation Report

Work Order: STR14072144

Job:

Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pН	
14072144-01A	INF W Oly	Aqueous	2	

7/23/14

Report Date



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Date: 13-Aug-14			QC S	ummar	y Repor	t			Work Orde 14072144	
Method Blan File ID: 1 Sample ID:	k MB-33272	11-15-	Type N	В	est Code: El	72t	hod 245.1	-	e: 07/22/2014 17:03	
Analyte	MD-33212	Units : µg/L Result	PQL		ANUAL_140		I OLAME)	Prep Date:	07/22/2014 10:38	O1
Mercury (Hg)		ND	0.2		Spkreival	MREC	LCL(IVIE)	UCL(ME) RPDRE	fVal %RPD(Limit)	Qual
	Control Spike	1	Type L	.cs T	est Code: El	PA Met	hod 245.1			
File ID: 2 Sample ID: Analyte	LCS-33272	Units : μg/L Result	PQL	Run ID: M.	atch ID: 3327 ANUAL_140	722B	· I C! (ME)	Prep Date:	o: 07/22/2014 17:05 07/22/2014 10:38 ofVal %RPD(Limit)	0
Mercury (Hg)		10.6	0.2		Opkiterval	106	85	115	IVAI MAPD(LIIIII)	Quai
Sample Matr File ID: 4 Sample ID: Analyte	ix Spike 14072144-01AMS	Units : µg/L Result	Type N	Ba Run ID: M	est Code: El atch ID: 332 ANUAL_140	72t 722B		Analysis Date:	o: 07/22/2014 17:10 07/22/2014 10:38 ofVal %RPD(Limit)	Qual
Mercury (Hg)	· · · · · · · · · · · · · · · · · · ·	9.87	0.2			99	70	130	IVAL MICEULINIC	- Quai
Sample Matr File ID: 5	ix Spike Duplicate		Type I		est Code: El		thod 245.1	Analysis Date	o: 07/22/2014 17:12	
Sample ID: Analyte	14072144-01AMSD	Units : µg/L Result	PQL	Run ID: M	ANUAL_140	722B	LCL(ME)	Prep Date:	07/22/2014 10:38 of Val %RPD(Limit)	Qual
Mercury (Hg)		10.2	0.2				70	130 9.8		

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: 13-Aug-14	(QC Su	ımmary	y Report	· 				Work Orde 14072144	
Method Blank File ID: 1		Туре М		est Code: EP atch ID: 3327		nod 200.8	Analysis	s Date:	07/22/2014 14:33	
Sample ID: MB-33274				ANUAL_1407			Prep Da		07/22/2014 12:18	
Analyte	Result	PQL	SpkVal	SpkRefVal ⁴	%REC	LCL(ME)	UCL(ME) R	PDRef	/al %RPD(Limit)	Qual
Chromium (Cr)	ND	10								
Nickel (Ni)	ND ND	10					•			
Copper (Cu) Zinc (Zn)	ND ND	20 100								
Arsenic (As)	ND	5								
Selenium (Se)	ND	5								
Silver (Ag)	ND	5								
Cadmium (Cd)	ND	2								
Lead (Pb)	ND	5								
Laboratory Control S	pike	Type Lo		est Code: EF		hod 200.8				
File ID: 3			Ba	atch ID: 3327	'4		Analysi	s Date:	07/22/2014 14:38	
Sample ID: LCS-3327	4 Units : µg/L		Run ID: M	ANUAL_140	722A		Prep Da	ate:	07/22/2014 12:18	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) R	RPDReft	/al %RPD(Limit)	Qual
Chromium (Cr)	49	10	50		98	85	115			
Nickel (NI)	49.1	10	50		98	85	115			
Copper (Cu)	50.5	20	50		101	85	115			
Zinc (Zn)	518	100			104	85	115			
Arsenic (As) Selenium (Se)	48.8	5	50		98	85 85	115			
Silver (Ag)	49.2 45.8	5 5	50 50		98 92	85 85	115 115			
Cadmium (Cd)	47.8	2			96	85	115			
Lead (Pb)	47.4	5			95	85	115			
Sample Matrix Spike		Type M		est Code: EF	A Met	hod 200 8	-			
File ID: 5		. , , , , , , , ,		atch ID: 3327		1100 200.0		e Date:	07/22/2014 14:43	
Sample ID: 14072145	-01AMS Units : μg/L			ANUAL_140			Prep Da		07/22/2014 12:18	
Analyte	Result	PQL				LCL(ME)	•		Val %RPD(Limit)	Qual
Chromium (Cr)								u Dittoi	vai min D(Linne)	
Nickel (Ni)	49.2 50.3	10 10		0	98 101	70 70	130 130			
Copper (Cu)	49.4	20		0	99	70	130			
Zinc (Zn)	539	100		ő	108	70	130			
Arsenic (As)	57.9	5	50	7.716	100	70	130			
Selenium (Se)	55	5	50	0	110	70	130			
Silver (Ag)	46.3	5		0	93	70	130			
Cadmium (Cd)	47.6 47.7	2			95 95	70 70	130 130			
Lead (Pb)										
Sample Matrix Spike	Duplicate	Type N		est Code: El		thod 200.8				
File ID: 6				atch ID: 332			-		07/22/2014 14:46	
•	i-01AMSD Units : μg/L			ANUAL_140			Prep D		07/22/2014 12:18	i
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRef	Val %RPD(Limit)	Qual
Chromium (Cr)	49.5	10			99	70	130	49.1		
Nickel (Ni)	50.2	10			100	70	130	50.2		
Copper (Cu)	50	20			100	70 70	130	49.4		
Zinc (Zn)	539 57.5	100			108	70 70	130	539.		
Arsenic (As) Selenium (Se)	57.5 52.4	5			99.6 105	70 70	130 130	57.9 55.0		
Silver (Ag)	46	5			92	70	130	46.3		
Cadmium (Cd)	48.6	2			97	70	130	47.6		
Lead (Pb)	49	5				70	130	47.7		



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Date: 13-Aug-14	QC Summary Report	Work Order: 14072144

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: 13-Aug-14		QC Su	mmary]	Report			Work Orde 14072144	
Method Blank		Туре МВ		Code: EPA Meti	nod SW8			
File ID:			Batc	h ID: 33273		Analysis [Date: 08/01/2014 15:09	
Sample ID: MBLK-32273	Units: µg/L	R	tun ID: MSD	_16_140722A		Prep Date	: 08/01/2014 15:09	
Analyte	Result	PQL	SpkVal Sp	okRefVal %REC	LCL(ME)	UCL(ME) RPI	ORefVal %RPD(Limit)	Qual
Pentachlorophenol	ND	5						
2,3,4,6-Tetrachlorophenol	ND	1						
Surr: 2-Fluorobiphenyl	0.739		2.5	30	12	143		
Surr: 4-Terphenyl-d14	1.51		2.5	60	30	159		

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: 13-Aug-14		QC Su	ımmar	y Report				Work Orde 14072144	
Method Blank		Туре М	BLK Te	est Code: EP	A Meti	hod SW80	15B/C / SW8260	В	_
File ID: 14072307.D			Ва	atch ID: MS1	2W072	3B	Analysis Date	9: 07/23/2014 14:41	
Sample ID: MBLK MS12W0723B	Units : µg/L		Run ID: M	SD 12 1407	23A		Prep Date:	07/23/2014 14:41	
Analyte	Result	PQL	SpkVal	SpkRefVal 9	%REC	LCL(ME)	UCL(ME) RPDRe	Val %RPD(Limit)	Qual
TPH-P (GRO)	ND	50	<u>-</u> -					(
Surr: 1,2-Dichloroethane-d4	10.4	•	10		104	70	130		
Surr: Toluene-d8	10		10		100	70	130		
Surr: 4-Bromofluorobenzene	8.56		10		86	70	130		
Laboratory Control Spike		Type L	CS To	est Code: EP	A Met	hod SW80	15B/C / SW8260		
File ID: 14072305.D			Ba	atch ID: MS1:	2W072	23B	Analysis Date	e: 07/23/2014 13:49	
Sample ID: GLCS MS12W0723B	Units : µg/L		Run ID: M	SD_12_1407	23A		Prep Date:	07/23/2014 13:49	
Analyte	Result	PQL	SpkVal	SpkRefVal ⁴	%REC	LCL(ME)	UCL(ME) RPDR	efVal %RPD(Limit)	Qual
TPH-P (GRO)	406	50	400		101	70	130		
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130		
Surr: Toluene-d8	9.88		10		99	70	130		
Surr: 4-Bromofluorobenzene	9.21		10	_	92	70	130		
Sample Matrix Spike		Type M	S To	est Code: EP	A Met	hod SW80	15B/C / SW8260	В	
File ID: 14072319.D			B	atch ID: MS1	2W072	23B	Analysis Date	e: 07/23/2014 19:00	
Sample ID: 14072240-01AGS	Units : µg/L		Run ID: M	SD_12_1407	23A		Prep Date:	07/23/2014 19:00	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDR	stval %RPD(Limit)	Qual
TPH-P (GRO)	1960	250	2000	0	98	54	143		
Surr: 1,2-Dichloroethane-d4	55.1		50		110	70	130		
Surr: Toluene-d8	48		50		96	70	130		
Surr: 4-Bromofluorobenzene	44.6		50		89	70	130		
Sample Matrix Spike Duplicate		Type N	ISD T	est Code: EF	A Met	hod SW80	015B/C / SW8260	В	
File ID: 14072320.D			В	atch ID: MS1	2W072	23B	Analysis Date	e: 07/23/2014 19:21	
Sample ID: 14072240-01AGSD	Units : µg/L		Run ID: M	SD_12_1407	23A		Prep Date:	07/23/2014 19:21	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDR	efVal %RPD(Limit)	Qual
TPH-P (GRO)	1940	250	2000	0	97	54	143 19	63 1.2(23)	
Surr: 1,2-Dichloroethane-d4	55		50		110	70	130	•	
Surr: Toluene-d8	48.9		50		98	70	130		
Surr. 4-Bromofluorobenzene	44.5		50		89	70	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.



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Date: 13-Aug-14		QC Sum	mary	Report			Work Orde 14072144	
Method Blank		Type MBL	K Test	Code: EPA N	ethod SW8	260B		
File ID: 14072307.D			Batc	h ID: MS12W	0723A	Analysis Date	07/23/2014 14:41	
Sample ID: MBLK MS12W0723A	Units : µg/L	Ru	n ID: MSD	_12_1407234	\	Prep Date:	07/23/2014 14:41	
Analyte	Result	_				UCL(ME) RPDRe		Qual
Methyl tert-butyl ether (MTBE)	ND	0.5				, 551(,,,,,,) 111	irvai 7014 D(Eiline)	
Benzene	ND	0.5						
Toluene	ND	0.5						
Ethylbenzene	ND	0.5						
m,p-Xylene o-Xylene	ND	0.5						
Surr: 1,2-Dichloroethane-d4	ND 10.4	0.5	10	10	4 70	420		
Surr: Toluene-d8	10.4		10	10 10		130 130		
Surr. 4-Bromofluorobenzene	8.56		10	80		130		
Laboratory Control Spike		Type LCS	Test	Code: EPA	lethod SW8	260B	-	
File ID: 14072306.D		,,		h ID: MS12W			e: 07/23/2014 14:11	
Sample ID: LCS MS12W0723A	Units : µg/L	Ru		_12_140723		Prep Date:	07/23/2014 14:11	
Analyte	Result					PIED Date.) UCL(ME) RPDRE		Oust
Methyl tert-butyl ether (MTBE)	8.72						NVE TORPULLIMIT)	Qual
Benzene	8.93	0.5 0.5	10 10	8'		137 130		
Toluene	9.07	0.5	10	9		120		
Ethylbenzene	9.17	0.5	10	9:		120		
m,p-Xylene	10	0.5	10	10	00 65	139		
o-Xylene	10.2	0.5	10	10		130		
Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	10.7		10	10		130		
Surr: 4-Bromofluorobenzene	9.9 8.78		10 10	9:		130 130		
	0.10	T						
Sample Matrix Spike File ID: 14072317.D		Type MS		Code: EPA				
Sample ID: 14072240-01AMS	limite comit	Б.,		h ID: MS12W	-	-	o: 07/23/2014 18:17	
Analyte	Units : µg/L			_12_140723/		Prep Date:	07/23/2014 18:17	
	Result) UCL(ME) RPDRe	orval %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE) Benzene	38.1	1.3	50		6 56	140		
Toluene	43.6 42.6	1.3 1.3	50 50	0 8 0 8		134 130		
Ethylbenzene	44.2	1.3	50 50	0 8		130		
m,p-Xylene	45.4	1.3	50	0 9		139		
o-Xylene	47.9	1.3	50	0 9	6 69	130		
Surr: 1,2-Dichloroethane-d4	58.9		50	11		130		
Surr. Toluene-d8 Surr. 4-Bromofluorobenzene	47.6 45		50 50	_	5 70 0 70	130		
	45					130		_
Sample Matrix Spike Duplicate File ID: 14072318.D		Type MSD		t Code: EPA 1				
	11=14=			h ID: MS12W			07/23/2014 18:38	
Sample ID: 14072240-01AMSD Analyte	Units : µg/L Result)_12_140723/		Prep Date:) UCL(ME) RPDRe	07/23/2014 18:38	
			`	<u> </u>				Qual
Methyl tert-butyl ether (MTBE) Benzene	38.5 45.4	1.3	50 50		7 56	140 38.	, ,	
Toluene	45.4 44.4	1.3 1.3	50 50		1 67 19 38	134 43 130 42.	5.6 4.0(21) 55 4.1(20)	
Ethylbenzene	46.2	1.3	50 50		2 70	130 44.	, ,	
m,p-Xylene	47.9	1.3	50		6 65		6.4 5.4(20)	
o-Xylene	50.1	1.3	50		00 69		92 4.5(20)	
Surr: 1,2-Dichloroethane-d4	56.7		50		13 70	130		
Surr. Toluene-d8 Surr. 4-Bromofluorobenzene	46.8 42.8		50 50		4 70	130		
Suit. 4-Divinolitiolopenzene	42.8		50	8	36 70	130		



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Date:	
13-Aug-14	

QC Summary Report

Work Order: 14072144

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.

3249 Fitzgerald Road Rancho Cordova, CA 95742

July 23, 2014

CLS Work Order #: CXG0894 COC #:

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

Project Name: STR14072144

Enclosed are the results of analyses for samples received by the laboratory on 07/21/14 16:00. 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

Page 1 of 4

Alpha Analytical, Inc.-Sparks

Project: STR14072144 255 Glendale Ave.; Suite 21 Project Number: STR14072144 CLS Work Order #: CXG0894 Sparks, NV 89431 Project Manager: Reyna Vallejo COC#: 12.0

07/23/14 10:59

Page 2 of 4

07/23/14 10:59

Alpha Analytical, Inc.-Sparks

255 Glendale Ave.; Suite 21 Sparks, NV 89431

Project: STR14072144

Project Number: STR14072144 Project Manager: Reyna Vallejo

CLS Work Order #: CXG0894

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
STR14072144-01A (INF W Oly) (CXG0894-01) Aqueous Sampled: 07/21/14 07:43 Received: 07/21/14 16:00										
Cyanide (total)	ND	0.10	mg/L	1	CX05002	07/22/14	07/22/14	SM4500-CN E		

Page 3 of 4

07/23/14 10:59

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21

Sparks, NV 89431

Project: STR14072144

Project Number: STR14072144
Project Manager: Reyna Vallejo

CLS Work Order #: CXG0894

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 CX05002 - General Preparation										
Blank (CX05002-BLK1)			-	Prepared &	Analyzed:	07/22/14			-	-
Cyanide (total)	ND	0,0050	mg/L				-			
LCS (CX05002-BS1)				Prepared &	Analyzed:	07/22/14				
Cyanide (total)	0.0824	0.0050	mg/L	0.100		82	75-125			_
LCS Dup (CX05002-BSD1)				Prepared &	2 Analyzed	07/22/14				
Cyanide (total)	0.0852	0,0050	mg/L	0.100		85	75-125	3	25	
Matrix Spike (CX05002-MS1)	Sou	rce: CXG0642	2-01	Prepared &	k Analyzed	: 07/22/14				
Cyanide (total)	0.0835	0.0050	mg/L	0.100	ND	84	75-125			
Matrix Spike Dup (CX05002-MSD1)	Sou	rce: CXG0642	2-01	Prepared &	k Analyzed	: 07/22/14				
Cyanide (total)	0.0850	0.0050	mg/L	0.100	ND	85	75-125	2	25	

Page 4 of 4

07/23/14 10:59

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431 Project: STR14072144
Project Number: STR14072144

Project Manager: Reyna Vallejo

CLS Work Order #: CXG0894

COC #:

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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

EMail Address Phone Number

thartwell@stratusinc.net

3330 Cameron Park Drive

Stratus Environmental

Suite 550

Cameron Park, CA 95682-8861

EDD Required: Yes

0°C

Sampled by : C. Hill

Samples Received Cooler Temp

Date Printed

21-Jul-14

CA RUS

Report Due By: 5:00 PM On: 23-Jul-14

WorkOrder: STR14072144

22-Jul-14

Sample Remarks

PO:

Client:

Client's COC #: 16592

Job: Olympic

Signature

Report Attention

Trevor Hartwell

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

Requested Tests PHENOLS_ TPH/P_W VOC_W CYANIDE METALS D Collection No. of Bottles 245 1 W Client Alpha TOTAL_W TAT Sub Alpha Matrix Date Sample ID Sample ID GAS-C BTXE/M C Pb, As, Cd, PHENOLS TOTAL 07/21/14 INF W Olv AQ STR14072144-01A CYANIDE Cu, Ni, Se, 07:43 Ag Cr, Zn

(530) 676-6004 x

Comments:

Prelogged on 7/21/14 in order to sub Cyanide to CLS by Sac office. Remaining samples received on 7/22/14. Security seals intact. Frozen ice. Chain split into separate workorders due to different

TAT. 24hr TAT.:

Print Name

Company

Date/Time

Logged in by:

ALMONA CHALON

Alpha Analytical, Inc.

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

Company: Ath: Address: City, State, Zip: Phone Number: Billing Information: Analytical Analytic

received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Alpha Analytical, Inc.

Main Laboratory: 255 Glendale Ava, Suite 21 Sparks, NV 89431

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suits C, Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Northern NV: 1250 Lamoille Hwy., #310, Etxo, NV 89801 Southern NV: 6255 McLeod Ave, Suita 24, Las Veges, NV 89120 Phone: 775-355-1044 Fax: 775-355-0406

Phone: 916-366-9089

Phone: 714-386-2901 Phone: 775-388-7043

Phone: 702-281-4846

16592

Page# ____ of ___

Company: Address: City, State, Zip: Samples Col		sultant/ Cl	lient info:	rcle one)	J.	ob# ob Name: .O.#:	and Puro	GMI	er Info:	Other	Name: Email Ad Phone # Cell #:		itantion/	Project I	Manager	:			Global ID:	uired? Ye			EDF Required?	
							0 0					2			Anal	rsis Requ	ested					=	Remar	ke
Sampled Sar	Data mpled M/DD)	Matrix" (See Key Below)	Lab ID Numb	er (For Lab Use	a Only)		Sampi	e Descriptic	n	TAT	#Containers" (See Key Below)	S Field Filtered?	BO TH	Drex	mtise	Lend was		CYMA!	-	I,		1	meter	15
07437	T4	HQ:	Month.	72144	-014	1111	- W	0	' }	48	8	X	Х	×	X	X	X	X	火	2.			ASPA	CO
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7470		1				GAL	24	01	×	STD	3	上	X	X	X				<u> </u>				Ag, Ci	Zn
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Religibles by	Surrett	re/Affiliation			Date:	21 1	Time:	120	Red	elved by: (Sign	ature/Affil	ation):	Т							Date:	1.14		Time: (170)	
restinguished by:	(Signatu	re/Affillation)	tuites		Date:	41-1	Time:	1/0		eived by (Spr	and the same	ation):	`							Date:	117		Time:	-)
								_		QU	كرك	7								7/2	2/14		095	<u></u>
Relinquished by:	(Signatu	re/Affiliation)):		Date:		Time:		Rec	eived by: (Sign	ature/Affill	atten):							-	UBIG:			Time:	
-			* Key: AQ -	Aqueous	WA - 1	Vaste	OT - Othe	r So-	Soil **1	Liter \	/ - VOA	S-Soi	Jar	O - Orbo) T-	Tedlar	8 - Br	288	P - Plasti	ic 01	Γ - Other			
NOTE: Semples	am disc	and an day					a Hazaniou	e semoles i	will be returned	to client or disc	osed of at	client expe	nse. The	report for	the enalys	is of the a	bove same	ples is app	dicable onl	y to those	samples			



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn: Trevor Hartwell Phone: (530) 676-6004 Fax: (530) 676-6005

Date Received: 07/22/14

Job: Olympic

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID:	GAC1 W Oly					•
Lab ID:	STR14072240-01A	TPH-P (GRO)	ND	50 μg/L	07/23/14	07/23/14
Date Sampled	07/21/14 07:54	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	07/23/14	07/23/14
		Benzene	ND	0.50 μg/L	07/23/14	07/23/14
		Toluene	ND	0.50 μg/L	07/23/14	07/23/14
		Ethylbenzene	ND	0.50 μg/L	07/23/14	07/23/14
		m,p-Xylene	ND	0.50 μg/L	07/23/14	07/23/14
		o-Xylene	ND	0.50 μg/L	07/23/14	07/23/14
Client ID:	GAC2 W Oly					
Lab ID:	STR14072240-02A	TPH-P (GRO)	ND	50 μg/L	07/23/14	07/23/14
Date Sampled	07/21/14 07:47	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	07/23/14	07/23/14
		Benzene	ND	0.50 μg/L	07/23/14	07/23/14
		Toluene	ND	0.50 μg/L	07/23/14	07/23/14
		Ethylbenzene	ND	0.50 μg/L	07/23/14	07/23/14
		m,p-Xylene	ND	0.50 μg/L	07/23/14	07/23/14
		o-Xylene	ND	0.50 μg/L	07/23/14	07/23/14

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.

ACCLASS
ACCREDITED
DOD SLAP

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Office 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

A STATE OF THE STA

Report Date



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VOC Sample Preservation Report

Work Order: STR14072240

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pН
14072240-01A	GACI W Oly	Aqueous	2
14072240-02A	GAC2 W Oly	Aqueous	2

7/29/14

Report Date



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

Date: 29-Jul-14	(QC Si	ummary	Repor	t				Work Orde 14072240	
Method Blank	<u> </u>	Type N		est Code: EF						
File ID: 14072307.D				tch ID: MS1		3B	-		07/23/2014 14:41	
Sample ID: MBLK MS12W0723B	Units : µg/L			SD_12_1407			Prep D		07/23/2014 14:41	
Analyte	Result	PQL		SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRefV	al %RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	10.4 10		10 10		104 100	70 70	130 130			
Surr: 4-Bromofluorobenzene	8.56		10		86	70	130			
Laboratory Control Spike		Type L		est Code: EF	A Meti	and SW80		V8260B		_
File ID: 14072305.D		. , , , ,		atch ID: MS1					07/23/2014 13:49	
Sample ID: GLCS MS12W0723B	Units : µg/L			SD_12_1407			Prep D		07/23/2014 13:49	
Analyte	Result	PQL				LCL(ME)	•		/al %RPD(Limit)	Qual
TPH-P (GRO)	406	50		<u> </u>	101	70	130		······································	
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	9.88		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.21		10		92	70	130			
Sample Matrix Spike		Type N	AS TO	est Code: El	PA Meti	hod SW80	15B/C / SV	V8260B		
File ID: 14072319.D			Ва	atch ID: MS1	2W072	3B	Analys	is Date:	07/23/2014 19:00	
Sample ID: 14072240-01AGS	Units : µg/L		Run ID: M	SD_12_1407	723A		Prep C	ate:	07/23/2014 19:00	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) I	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)	1960	250	2000	0	98	54	143			
Surr: 1,2-Dichloroethane-d4	55.1		50		110	70	130			
Surr: Toluene-d8	48		50		96	70	130			
Surr: 4-Bromofluorobenzene	44.6		50		89	70	130			
Sample Matrix Spike Duplicate		Type I		est Code: El						
File ID: 14072320.D			В	atch ID: MS1	12W072	23B	•		07/23/2014 19:21	
Sample ID: 14072240-01AGSD	Units : µg/L			SD_12_140			Prep C		07/23/2014 19:21	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO)	1940	250		0	• • •	54	143	1963	1.2(23)	
Surr: 1,2-Dichloroethane-d4	55		50		110	70	130			
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	48.9 44.5		50 50		98 89	70 70	130 130			
	44.5				09		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.



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Date: 29-Jul-14	C	C Sumn	nary Re	port					Work Orde 14072240	r:
Method Blank		Type MBLK	Test Co	de: EPA	Meth	od SW82	60B			
File ID: 14072307.D			Batch ID	: MS12V	V0723	BA	Analysis	Date: (07/23/2014 14:41	
Sample ID: MBLK MS12W0723A	Units: µg/L	Run II	D: MSD_12	_140723	BA		Prep Date	e: (07/23/2014 14:41	
Analyte	Result	PQL Spl	Val SpkR	efVal %F	REC	LCL(ME)	UCL(ME) RP	DRefVa	al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								_
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene o-Xylene	ND ND	0.5 0.5								
Surr: 1,2-Dichloroethane-d4	10.4	0.0	10	1	104	70	130			
Surr: Toluene-d8	10		10	1	100	70	130			
Surr: 4-Bromofluorobenzene	8.56		10	1	86	70	130			
Laboratory Control Spike		Type LCS	Test Co	de: EPA	Meth	od SW82	60B			
File ID: 14072306.D			Batch ID	: MS12V	N072	3A	Analysis	Date: (07/23/2014 14:11	
Sample ID: LCS MS12W0723A	Units : µg/L		D: MSD_1 2				Prep Dat		07/23/2014 14:11	
Analyte	Result	PQL Sp	kVal_SpkR	efVal %	REC	LCL(ME)	UCL(ME) RP	DRefV	al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.72	0.5	10		87	63	137			
Benzene	8.93	0.5	10		89	70	130			
Toluene	9.07	0.5	10		91	80	120			
Ethylbenzene	9.17	0.5	10		92 100	80 65	120 139			
m,p-Xylene o-Xylene	10 10.2	0.5 0.5	10 10		100	70	130			
Surr: 1,2-Dichloroethane-d4	10.7	0.5	10		107	70	130			
Surr: Toluene-d8	9.9		10		99	70	130			
Surr: 4-Bromofluorobenzene	8.78		10		88	70	130			_
Sample Matrix Spike		Type MS	Test Co	de: EPA	Meth	nod SW82	260B			
File ID: 14072317.D			Batch II): MS12	W072	3A	Analysis	Date:	07/23/2014 18:17	
Sample ID: 14072240-01AMS	Units : µg/L	Run	ID: MSD_12	14072	3A		Prep Dat	te:	07/23/2014 18:17	
Analyte	Result	PQL Sp	kVal SpkF	efVal %	REC	LCL(ME)	UCL(ME) RE	PDRefV	al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.1	1.3	50	0	76	56	140			
Benzene	43.6	1.3	50		87	67	134			
Toluene	42.6	1.3	50	0	85	38	130			
Ethylbenzene	44.2	1.3	50	_	88	70	130			
m,p-Xylene o-Xylene	45.4 47.9	1.3 1.3	50 50	0	91 96	65 69	139 130			
Surr: 1,2-Dichloroethane-d4	58.9	1.5	50	-	118	70	130			
Surr: Toluene-d8	47.6		50		95	70	130			
Surr: 4-Bromofluorobenzene	45		50		90	70	130			
Sample Matrix Spike Duplicate		Type MSD	Test Co	de: EPA	A Meti	hod SW82	260B			
File ID: 14072318.D			Batch II	D: MS12	W072	3A	Analysis	Date:	07/23/2014 18:38	
Sample ID: 14072240-01AMSD	Units : µg/L		ID: MSD_1				Prep Da		07/23/2014 18:38	
Analyte	Result	PQL S	kVal Spki	RefVal %	6REC	LCL(ME)	UCL(ME) RI	PDRefV	/al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.5	1.3	50	0	77	56	140	38.07		
Benzene	45.4	1.3	50	0	91	67	134	43.6		
Toluene	44.4	1.3	50	0	89	38	130	42.55		
Ethylbenzene	46.2	1.3	50 50	0	92 96	70 65	130 139	44.21 45.4		
m,p-Xylene o-Xylene	47.9 50.1	1.3 1.3	50 50		100	69	130	47.92		
Surr: 1,2-Dichloroethane-d4	56.7		50	•	113	70	130		-, -,	
Surr: Toluene-d8	46.8		50		94	70	130			
Surr: 4-Bromofluorobenzene	42.8		50		86	70	130			



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Date: 29-Jul-14	QC Summary Report	Work Order: 14072240

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.

CHAIN-OF-CUSTODY RECORD

CA

Page: 1 of 1

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

EMail Address

thartwell@stratusinc.net

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

Phone Number

(530) 676-6004 x

WorkOrder: STR14072240

Report Due By: 5:00 PM On: 29-Jul-14

Client:

Stratus Environmental
3330 Cameron Park Drive

Suite 550

Cameron Park, CA 95682-8861

EDD Required: Yes

Sampled by : C. Hill

PO:

Client's COC #: 16592

Job: Olympic

Report Attention

Trevor Hartwell

Cooler Temp

Samples Received 22-Jul-14 Date Printed
22-Jul-14

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

								Requested Tes	ts		
Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Alpha	Bottlet Sub	TAT	TPH/P_W	VOC_W				Sample Remarks
STR14072240-01A	GAC1 W Oly	AQ 07/21/14 07:54	3	0	5	GAS-C	BTXE/M_C				
STR14072240-02A	GAC2 W Oly	AQ 07/21/14 07:47	3	0	5	GAS-C	BTXE/M_C		1		

Comments:

Security seals intact. Frozen ice. Chain split into separate workorders due to different TAT.:

Logged in by:

Print Name

ARIADNA OHACON

Company

Alpha Analytical, Inc.

Date/Time
12214 104

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

Company: Attn: Address:	Dabb	ormation:	7/2 JR	A A A	analytical ac	Main Labo Northam Ca	oratory: 255 Sate	Glendale	rvice Cer	e 21 Spark nters:				Fax:	775-355-10 775-355-04 916-366-90	06	16	59	2
City, State, Zip: Phone Number:	53000	AND Fax:	530676	100 String	onmental La	North	CA: 1007 E. em NV: 125 NV: 6255 M	0 Lamoille	Hwy., #3	10, Elko, N	V 89801			Phone:	714-386-29 775-388-70 702-281-48	43	Page #	1	. of <u></u>
Company: Address: City, State, Zip:	Consultant/	Client info:		Job and F ob # ob Name:	Purchase Order Info:		Name: Email Add	Ť	Attention J. W.	/Project	Manager	**************************************			EDD Requi	QC Deliv			uired? Yes / I
	llected from v	which State? (circ		•	OR WA DOD Site		Cell #:								Data Valida	tion Packages:	111	or	IV
Time Consumpted Series	Date Matrix* (See Key Below)	Lab ID Number	(For Lab Use Only)	INF I GACI I GACZ U EFF W	mple Description of Oly of Oly of Oly of Oly	1A1 48 5tD 5TD 24	S W W Below	Yes & X	X X	VXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	TO NATON	X Lenell 200,8	X metuls 200.8	X SYMAIGE	K rPhen/5428			mc Asy Hg,	And Sulf Cul Ni, Se Cir, Zn
ADDITIONAL INS	TRUCTIONS:				¥											. a			

Sampled By

Religible by Signature/Affiliation):

Date:

Time:

Received by: (Signature/Affiliation):

Date:

Time:

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

yalidity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, data or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn:

Trevor Hartwell

Phone: (530) 676-6004

Fax:

(530) 676-6005

Date Received: 07/21/14

Job:

Olympic

Mercury

EPA Method 245.1

Parameter

Concentration

Reporting

Date

Date

Limit

Extracted

Analyzed

Client ID: EFFW Oly

Lab ID: STR14072145-01A Mercury (Hg)

ND

0.20 µg/L

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

Date Sampled 07/21/14 09:00

Roger Scholl

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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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn:

Trevor Hartwell Phone: (530) 676-6004

Fax:

(530) 676-6005

Date Received: 07/21/14

Job:

Olympic

Metals by ICPMS

EPA Method 200.8

	Parameter	Concentration	Reporting	Date	Date
			Limit	Extracted	Analyzed
Client ID: EFFW Oly					
Lab ID: STR14072145-01A	Chromium (Cr)	ND	10 μg/L	07/22/14 12:18	07/22/14 14:35
Date Sampled 07/21/14 09:00	Nickel (Ni)	ND	10 μg/L	07/22/14 12:18	07/22/14 14:35
	Copper (Cu)	ND	20 μg/L	07/22/14 12:18	07/22/14 14:35
	Zinc (Zn)	ND	100 μg/L	07/22/14 12:18	07/22/14 14:35
	Arsenic (As)	7.7	5.0 μg/L	07/22/14 12:18	07/22/14 14:35
	Selenium (Se)	ND	5.0 μg/L	07/22/14 12:18	07/22/14 14:35
	Silver (Ag)	ND	5.0 μg/L	07/22/14 12:18	07/22/14 14:35
	Cadmium (Cd)	ND	2.0 μg/L	07/22/14 12:18	07/22/14 14:35
	Lead (Pb)	ND	5.0 μg/L	07/22/14 12:18	07/22/14 14:35

This replaces the report signed 7/22/14 due to a change in the analyte list, due to lab error.

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl

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

7/28/14

Report Date



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Trevor Hartwell Phone: (530) 676-6004

Fax:

Attn:

(530) 676-6005

Olympic

Alpha Analytical Number: STR14072145-01A

Client I.D. Number: EFFW Oly

Sampled: 07/21/14 09:00

Received: 07/21/14 Extracted: 07/22/14 12:20

Analyzed: 07/22/14

Phenols EPA Method SW8270C - SIM

	Compound	Concentration	Reporting Limit	
1	Pentachlorophenol	ND	5.0 µg/L	_
2	2,3,4,6-Tetrachlorophenol	ND	1.0 µg/L	

ND = Not Detected



Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer nto, CA • (916) 366-9089 / Las Vegza, 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.

7/22/14 **Report Date**

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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn: Trevor Hartwell Phone: (530) 676-6004 Fax: (530) 676-6005 Date Received: 07/21/14

Job:

Olympic

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID:	EFFW Oly					
Lab ID:	STR14072145-01A	TPH-P (GRO)	ND	50 μg/L	07/22/14	07/22/14
Date Sampled	07/21/14 09:00	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	07/22/14	07/22/14
		Benzene	ND	0.50 μg/L	07/22/14	07/22/14
		Toluene	ND	0.50 μ g/ L	07/22/14	07/22/14
		Ethylbenzene	ND	0.50 μ g/ L	07/22/14	07/22/14
		m,p-Xylene	ND	0.50 μg/L	07/22/14	07/22/14
		o-Xylene	ND	0.50 μg/L	07/22/14	07/22/14

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.

nto, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carnon, CA • (714) 386-2901 / info@alpha-analytical.c Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted oth

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

Page 1 of 1



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VOC Sample Preservation Report

Work Order: STR14072145	Job: Olympic			
Alpha's Sample ID	Client's Sample ID	Matrix	рН	
14072145-01A	EFFW Oly	Aqueous	4	

7/22/14

Report Date



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Date: 13-Aug-14			QC S	ummar	y Repor	t				Work Orde 14072145	
Method Blar File ID: 1	nk		Type I		est Code: El atch ID: 332		hod 245.1	Analys	sis Date:	07/22/2014 17:03	
Sample ID:	MB-33272	Units : µg/L		Run ID: M	ANUAL_140	722B		Prep [Date:	07/22/2014 10:38	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
Mercury (Hg)		ND	0.2	2							
Laboratory	Control Spike		Type L	LCS T	est Code: El	PA Met	hod 245.1				
File ID: 2				В	atch ID: 332	72t		Analys	sis Date:	07/22/2014 17:05	
Sample ID:	LCS-33272	Units : µg/L		Run ID: M	ANUAL_140	722B		Prep I	Date:	07/22/2014 10:38	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
Mercury (Hg)		10.6	0.2	2 10		106	85	115			
Sample Mat	rix Spike	-	Type I	MS T	est Code: El	PA Met	hod 245.1			•	
File ID: 4				В	atch ID: 332	72t		Analys	sis Date:	07/22/2014 17:10	
Sample ID:	14072144-01AMS	Units : µg/L		Run ID: M	ANUAL_140	722B		Prep I	Date:	07/22/2014 10:38	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDReft	Val %RPD(Limit)	Qual
Mercury (Hg)		9.87	0.:	2 10	0	99	70	130			
Sample Mat	rix Spike Duplicate		Type I	MSD T	est Code: E	PA Met	thod 245.1				
File ID: 5	•			В	atch ID: 332	72t		Analy	sis Date:	07/22/2014 17:12	
Sample ID:	14072144-01AMSD	Units : µg/L		Run ID: M	ANUAL_14)722B		Prep I	Date:	07/22/2014 10:38	
Analyte		Result	PQL				LCL(ME)	UCL(ME)	RPDRef	Val %RPD(Limit)	Qual
Mercury (Hg)		10.2	0.	2 10	0	102	70	130	9.87	3.3(20)	

Comments:

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

Reported in micrograms per Liter, per client request.



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Date: 13-Aug-14			QC Summary Report						Work Order: 14072145		
Method Blan File ID: 1	k		Туре М		st Code: EP		nod 200.8	Analys	is Date:	07/22/2014 14:33	
Sample ID:	MB-33274	Units : µg/L		Run ID: MA	NUAL_140	722A		Prep D	ate:	07/22/2014 12:18	
Analyte		Result	PQL		_		LCL(ME)			/al %RPD(Limit)	Qual
Chromium (Cr)		ND	10								
Nickel (Ni)		ND	10								
Copper (Cu)		ND	20								
Zinc (Zn)		ND	100								
Arsenic (As) Selenium (Se)		ND ND	5 5								
Silver (Ag)		ND	5								
Cadmium (Cd)		ND	2								
Lead (Pb)		ND	5						_		
Laboratory (Control Spike		Type L	CS Te	est Code: EF	A Met	hod 200.8				
File ID: 3				Ва	itch ID: 332 7	4		Analys	is Date:	07/22/2014 14:38	
Sample ID:	LCS-33274	Units: µg/L		Run ID: MA	ANUAL_140	722A		Prep D	Date:	07/22/2014 12:18	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDReft	Val %RPD(Limit)	Qual
Chromium (Cr)		49	10	50		98	85	115			
Nickel (Ni)		49.1	10	50		98	85	115			
Copper (Cu)		50.5	20			101	85	115			
Zinc (Zn)		518	100			104	85	115			
Arsenic (As) Selenium (Se)		48.8 49.2	5 5			98 98	85 85	115 115			
Silver (Ag)		45.8	5			92	85	115			
Cadmium (Cd)		47.8	2			96	85	115			
Lead (Pb)		47.4	5	50		95	85	115			
Sample Mati	rix Spike		Type N	IS Te	est Code: El	A Met	hod 200.8				
File ID: 5			••	Ва	atch ID: 332	74		Analys	sis Date:	07/22/2014 14:43	
Sample ID:	14072145-01AMS	Units : µg/L		Run ID: M	ANUAL 140	722A		Prep [07/22/2014 12:18	
Analyte		Result	PQL		_		LCL(ME)	UCL(ME)	RPDReft	Val %RPD(Limit)	Qual
Chromium (Cr)		49.2	10		0	98	70	130			
Nickel (Ni)		50.3	10		ō	101	70	130			
Copper (Cu)		49.4	20	50	0	99	70	130			
Zinc (Zn)		539	400								
Arsenic (As)			100		0	108	70	130			
Onlandium (On)		57.9	5	50	7.716	100	70	130			
Selenium (Se)		57.9 55	5	50 50	7.71 6 0	100 110	70 70	130 130			
Silver (Ag)		57.9 55 46.3	5	50 50 50 50	7.716 0 0	100 110 93	70 70 70	130 130 130			
		57.9 55	5	50 50 50 50 50 50	7.71 6 0	100 110	70 70	130 130			
Silver (Ag) Cadmium (Cd) Lead (Pb)		57.9 55 46.3 47.6	5	50 50 50 50 50 50 50 50	7.716 0 0 0	100 110 93 95 95	70 70 70 70 70	130 130 130 130 130			
Silver (Ag) Cadmium (Cd) Lead (Pb)	rix Spike Duplicate	57.9 55 46.3 47.6	5 5 2 2 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	7.716 0 0 0	100 110 93 95 95	70 70 70 70 70	130 130 130 130 130	sis Date:	07/22/2014 14:46	
Silver (Ag) Cadmium (Cd) Lead (Pb) Sample Mati		57.9 55 46.3 47.6	Type II	50 50 5 50 5 50 5 50 6 50 MSD To B:	7.716 0 0 0 0 0 est Code: E atch ID: 332 ANUAL_140	100 110 93 95 95 PA Met 74	70 70 70 70 70 70 thod 200.8	130 130 130 130 130 130 Analy	Date:	07/22/2014 12:18	
Silver (Ag) Cadmium (Cd) Lead (Pb) Sample Materials (Cd)	rix Spike Duplicate	57.9 55 46.3 47.6 47.7	Type II	50 50 5 50 5 50 5 50 6 50 MSD To B:	7.716 0 0 0 0 0 est Code: E atch ID: 332 ANUAL_140	100 110 93 95 95 PA Met 74	70 70 70 70 70 70 thod 200.8	130 130 130 130 130 130 Analy	Date:		
Silver (Ag) Cadmium (Cd) Lead (Pb) Sample Matr File ID: 6 Sample ID: Analyte Chromium (Cr)	rix Spike Duplicate	57.9 55 46.3 47.6 47.7 Units : μg/L Result	Type II	5 50 5 50 5 50 5 50 5 50 MSD TO B Run ID: M SpkVal	7.716 0 0 0 0 est Code: E atch ID: 332 ANUAL_140 SpkRefVal	100 110 93 95 95 95 PA Med 74 9722A %REC	70 70 70 70 70 70 thod 200.8	130 130 130 130 130 130 Analy Prep I UCL(ME)	Date: RPDRef 49.1	07/22/2014 12:18 Val %RPD(Limit) 8 0.7(20)	
Silver (Ag) Cadmium (Cd) Lead (Pb) Sample Matr File ID: 6 Sample ID: Analyte Chromium (Cr) Nickel (Ni)	rix Spike Duplicate	57.9 55 46.3 47.6 47.7 Units : µg/L Result 49.5 50.2	Type II PQL 10	5 50 5 50 5 50 5 50 5 50 MSD To B Run ID: M SpkVal	7.716 0 0 0 0 est Code: E atch ID: 332 ANUAL_140 SpkRefVal	100 110 93 95 95 PA Med 74 0722A %REC 99 100	70 70 70 70 70 thod 200.8 : LCL(ME) 70 70	130 130 130 130 130 130 Analy Prep I UCL(ME) 130 130	Date: RPDRef 49.1 50.2	07/22/2014 12:18 Val %RPD(Limit) 8 0.7(20) 5 0.0(20)	
Silver (Ag) Cadmium (Cd) Lead (Pb) Sample Matr File ID: 6 Sample ID: Analyte Chromium (Cr) Nickel (Ni) Copper (Cu)	rix Spike Duplicate	57.9 55 46.3 47.6 47.7 Units : µg/L Result 49.5 50.2	Type PQL	5 50 5 50 5 50 5 50 5 50 MSD T B Run ID: M SpkVal 0 50 5 50	7.716 0 0 0 0 est Code: E atch ID: 332 ANUAL_140 SpkRefVal 0 0	100 110 93 95 95 74 722A %REC 99 100 100	70 70 70 70 70 thod 200.8 : LCL(ME) 70 70	130 130 130 130 130 130 Analy Prep I UCL(ME) 130 130	Date: RPDRef 49.1 50.2 49.4	07/22/2014 12:18 Val %RPD(Limit) 8 0.7(20) 5 0.0(20) 2 1.1(20)	
Silver (Ag) Cadmium (Cd) Lead (Pb) Sample Mati File ID: 6 Sample iD: Analyte Chromium (Cr) Nickel (Ni) Copper (Cu) Zinc (Zn)	rix Spike Duplicate	57.9 55 46.3 47.6 47.7 Units : μg/L Result 49.5 50.2 50 539	PQL 10	50 50 50 50 50 50 50 50 50 50 50 50 50 5	7.716 0 0 0 0 est Code: E atch ID: 332 ANUAL_140 SpkRefVal 0 0	100 110 93 95 95 74 722A %REC 99 100 100 108	70 70 70 70 70 70 thod 200.8 : LCL(ME) 70 70 70 70	130 130 130 130 130 130 Analy Prep I UCL(ME) 130 130 130	Date: RPDRef 49.1 50.2 49.4 539.	07/22/2014 12:18 Val %RPD(Limit) 8 0.7(20) 5 0.0(20) 2 1.1(20) 2 0.0(20)	
Silver (Ag) Cadmium (Cd) Lead (Pb) Sample Mati File ID: 6 Sample iD: Analyte Chromium (Cr) Nickel (Ni) Copper (Cu) Zinc (Zn) Arsenic (As)	rix Spike Duplicate	57.9 55 46.3 47.6 47.7 Units: µg/L Result 49.5 50.2 50 539 57.5	PQL 10 100 100 100 100 100 100 100 100 100	5 50 5 50 5 50 5 50 5 50 MSD To B: Run ID: M SpkVal 0 50 0 50 0 50 0 50 0 50	7.716 0 0 0 0 est Code: E atch ID: 332 ANUAL_14(SpkRefVal 0 0 0 7.716	100 110 93 95 95 74 722A %REC 99 100 100 108 99.6	70 70 70 70 70 70 thod 200.8 : LCL(ME) 70 70 70 70 70	130 130 130 130 130 130 Analy: Prep I UCL(ME) 130 130 130 130	Pate: RPDRef 49.1 50.2 49.4 539. 57.9	07/22/2014 12:18 Val %RPD(Limit) 8 0.7(20) 5 0.0(20) 2 1.1(20) 2 0.0(20) 1 0.7(20)	
Silver (Ag) Cadmium (Cd) Lead (Pb) Sample Mati File ID: 6 Sample ID: Analyte Chromium (Cr) Nickel (Ni) Copper (Cu) Zinc (Zn) Arsenic (As) Selenium (Se)	rix Spike Duplicate	57.9 55 46.3 47.6 47.7 Units: µg/L Result 49.5 50.2 50 539 57.5 52.4	PQL 10 20 100 100 100 100 100 100 100 100 1	5 50 5 50 5 50 5 50 6 50 MSD TO B Run ID: M SpkVal 0 50 0 50 0 50 0 50 0 50 0 50 0 50 0 5	7.716 0 0 0 0 est Code: E atch ID: 332 ANUAL_140 SpkRefVal 0 0 0 0 7.716	100 110 93 95 95 74 7722A %REC 99 100 108 99.6 105	70 70 70 70 70 70 thod 200.8 : LCL(ME) 70 70 70 70 70 70	130 130 130 130 130 130 Analy: Prep I UCL(ME) 130 130 130 130 130	Pate: RPDRef 49.1 50.2 49.4 539. 57.9 55.0	07/22/2014 12:18 Val %RPD(Limit) 8 0.7(20) 5 0.0(20) 2 1.1(20) 2 0.0(20) 1 0.7(20) 1 4.8(20)	
Silver (Ag) Cadmium (Cd) Lead (Pb) Sample Mati File ID: 6 Sample iD: Analyte Chromium (Cr) Nickel (Ni) Copper (Cu) Zinc (Zn) Arsenic (As)	rix Spike Duplicate 14072145-01AMSD	57.9 55 46.3 47.6 47.7 Units: µg/L Result 49.5 50.2 50 539 57.5	PQL 10 10 10 10 10 10 10 10 10 10 10 10 10	5 50 5 50 5 50 5 50 5 50 MSD To B: Run ID: M SpkVal 0 50 0 50 0 50 0 50 0 50	7.716 0 0 0 0 est Code: E atch ID: 332 ANUAL_140 SpkRefVal 0 0 0 7.716	100 110 93 95 95 95 74 7722A %REC 99 100 100 108 99.6 105 92	70 70 70 70 70 70 thod 200.8 : LCL(ME) 70 70 70 70 70	130 130 130 130 130 130 Analy: Prep I UCL(ME) 130 130 130 130	Pate: RPDRef 49.1 50.2 49.4 539. 57.9	07/22/2014 12:18 Val %RPD(Limit) 8 0.7(20) 15 0.0(20) 2 1.1(20) 2 0.0(20) 11 0.7(20) 11 4.8(20) 11 0.7(20)	



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

Date: 13-Aug-14

QC Summary Report

Work Order: 14072145

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: 13-Aug-14	(Work Order: 14072145								
Method Blank File ID:		Туре 🛚		est Code: E		hod SW82			08/01/2014 15:09	
Sample ID: MBLK-32273 Analyte	Units : μg/L Result	PQL	Run ID: N	ISD_16_140	722A	LCL(ME)	Prep	Date:	08/01/2014 15:09 /al %RPD(Limit)	
Pentachlorophenol 2,3,4,6-Tetrachlorophenol Surr. 2-Fluorobiphenyl Surr. 4-Terphenyl-d14	ND ND 0.739 1.51		5 I 2.5 2.5		30 60	12 30	143 159			

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: 13-Aug-14	(Work Order: 14072145						
Method Blank									
File ID: 14072205.D	Batch ID: MS15W0722B Analysis Date: 0						07/22/2014 13:26		
Sample ID: MBLK MS15W0722B	Units : µg/L Run ID: MSD_15_140722A Prep Date:					Prep Date:	07/22/2014 13:26		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
TPH-P (GRO)	ND	50)			···			
Surr: 1,2-Dichloroethane-d4	9.03		10		90	70	130		
Surr: Toluene-d8	9.64		10		96	70	130		
Surr: 4-Bromofluorobenzene	10		10	_	100	70	130		
Laboratory Control Spike		Type L	.CS To	est Code: EF	A Met	hod SW80	15B/C / SW8260B	-	
File ID: 14072204.D			В	atch ID: MS1	5W072	2B	Analysis Date:	07/22/2014 12:32	
Sample ID: GLCS MS15W0722B	Units : µg/L		Run ID: M	SD_15_1407	22A		Prep Date:	07/22/2014 12:32	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qua
TPH-P (GRO)	460	50	400		115	70	130	······································	
Surr: 1,2-Dichloroethane-d4	8.87		10		89	70	130		
Surr: Toluene-d8	9.35		10		94	70	130		
Surr: 4-Bromofluorobenzene	10.2		10		102	70	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.



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Date: 13-Aug-14	QC Summary Report								Work Order: 14072145		
Method Blank	Type MBLK Test Code: EPA Method SW8260B										
File ID: 14072205.D			Ba	tch ID: MS1	5W072	2A	Analysis	s Date:	07/22/2014 13:26		
Sample ID: MBLK MS15W0722A	Units : µg/L	Rur	ID: MS	SD_15_1407	22A		Prep Da	ate:	07/22/2014 13:26		
Analyte	Result					LCL(ME)	UCL(ME) R	PDRefV	al %RPD(Limit)	Qual	
Methyl tert-butyl ether (MTBE)	ND	0.5		·							
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
m,p-Xylene o-Xylene	ND ND	0.5 0.5									
Surr: 1,2-Dichloroethane-d4	9.03	0.5	10		90	70	130				
Surr: Toluene-d8	9.64		10		96	70	130				
Surr. 4-Bromofluorobenzene	10		10		100	70	130				
Laboratory Control Spike		Type LCS	Te	est Çode: EP	A Metr	nod SW82	:60B			_	
File ID: 14072202.D			Ba	itch ID: MS1	5W072	2A	Analysi	s Date:	07/22/2014 11:35		
Sample ID: LCS MS15W0722A	Units : µg/L	Rui	n ID: MS	SD_15_1407	22A		Prep Da	ate:	07/22/2014 11:35		
Analyte	Result	PQL S	SpkVal	SpkRefVal ⁴	%REC	LCL(ME)	UCL(ME) R	RPDRefV	al %RPD(Limit)	Qual	
Methyl tert-butyl ether (MTBE)	8.8	0.5	10	·	88	63	137				
Benzene	10.6	0.5	10		106	70	130				
Toluene	8.82	0.5	10		88	80	120				
Ethylbenzene	8.43	0.5	10		84	80	120				
m,p-Xylene o-Xylene	9.21 8.67	0.5	10		92	65 70	139				
Surr: 1,2-Dichloroethane-d4	8.85	0.5	10 10		87 89	70 70	130 130				
Surr: Toluene-d8	9.4		10		94	70	130				
Surr. 4-Bromofluorobenzene	10		10		100	70	130				
Sample Matrix Spike		Type MS	Te	est Code: EF	A Meti	hod SW82	260B				
File ID: 14072220.D		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		atch ID: MS1				is Date:	07/22/2014 18:45		
Sample ID: 14071611-02AMS	Units : µg/L	Ru		SD_15_1407			Prep D		07/22/2014 18:45		
Analyte	Result					LCL(ME)			al %RPD(Limit)	Qual	
Methyl tert-butyl ether (MTBE)	48.5	1.3	50	0	97	56	140			-	
Benzene	56.9	1.3	50	Ō	114	67	134				
Toluene	42.5	1.3	50	C	85	38	130				
Ethylbenzene	41.2	1.3	50	0	82	70	130				
m,p-Xylene	45	1.3	50	0	90	65	139			•	
o-Xylene Surr: 1,2-Dichloroethane-d4	42.9 53	1.3	50 50	U	86 106	69 70	130 130				
Surr: Toluene-d8	44.1		50		88	70	130				
Surr. 4-Bromofluorobenzene	51.2		50		102	70	130				
Sample Matrix Spike Duplicate		Type MSD) To	est Code: EF	A Met	hod SW8	260B				
File ID: 14072221.D		,,		atch ID: MS1	5W072	22A	Analys	is Date:	07/22/2014 19:07		
Sample ID: 14071611-02AMSD	Units : µg/L	Ru		SD_15_1407			Prep D		07/22/2014 19:07		
Analyte	Result					LCL(ME)	UCL(ME) F	RPDRef\	/al %RPD(Limit)	Qual	
Methyl tert-butyl ether (MTBE)	50.5	1.3	50	0	101	56	140	48.45	4.2(40)		
Benzene	57.1	1.3	50	Ō	114	67	134	56.92	0.3(21)		
Toluene	42.2	1.3	50	0	84	38	130	42.48			
Ethylbenzene	40.9	1.3	50	0	82	70	130	41.18			
m,p-Xylene	45.1 43.5	1.3	50 50	0	90 85	65 69	139	45.01			
o-Xylene Surr: 1,2-Dichloroethane-d4	42.6 52.7	1.3	50 50	-	85 105	70	130 130	42.87	0.6(20)		
Surr. Toluene-d8	44		50		88	70	130				
Surr: 4-Bromofluorobenzene	49.8		50		99.6	70	130				



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Date: 13-Aug-14	QC Summary Report	Work Order 14072145
		14072143

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.

3249 Fitzgerald Road Rancho Cordova, CA 95742

July 22, 2014

CLS Work Order #: CXG0893 COC #:

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

Project Name: STR14072145

Enclosed are the results of analyses for samples received by the laboratory on 07/21/14 16:00. 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

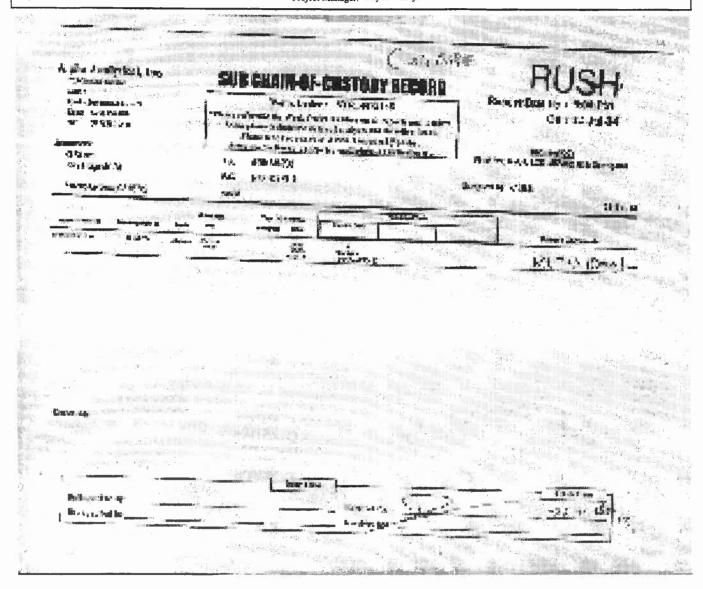
Page 1 of 4

07/22/14 12:26

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431 Project: STR14072145

Project Number: STR14072145 Project Manager: Reyna Vallejo CLS Work Order #: CXG0893

COC #:



Page 2 of 4

07/22/14 12:26

Alpha Analytical, Inc.-Sparks

255 Glendale Ave.; Suite 21 Sparks, NV 89431

Project: STR14072145

Project Number: STR14072145 Project Manager: Reyna Vallejo CLS Work Order #: CXG0893

COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR14072145-01A (EEFW Oly) (CXG0893-01) Aqueous Sampled: 07/21/14 09:00 Received: 07/21/14 16:00									
Cyanide (total)	ND	0.10	mg/L	1	CX05002	07/22/14	07/22/14	SM4500-CN E	

Page 3 of 4

07/22/14 12:26

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431 Project: STR14072145

Project Number: STR14072145 Project Manager: Reyna Vallejo CLS Work Order #: CXG0893

COC#:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

)										
Analyte	Result	Reporting Limit	Units	Spike	Source Result	e/DEO	%REC	DDD	RPD	37 .
	- Kesuit	Limit	Units	Level	Kesut	%REC	Limits	RPD	Limit	Notes
Batch CX05002 - General Preparation	-									
Blank (CX05002-BLK1)		_		Prepared &	Analyzed:	07/22/14				
Cyanide (total)	ND	0.0050	mg/L		· · · · · ·					
LCS (CX05002-BS1)				Prepared &	Analyzed:	07/22/14				
Cyanide (total)	0.0824	0.0050	mg/L	0.100		82	75-125			
LCS Dup (CX05002-BSD1)				Prepared &	Analyzed:	07/22/14				
Cyanide (total)	0.0852	0.0050	mg/L	0.100		85	75-125	3	25	
Matrix Spike (CX05002-MS1)	Sou	rce: CXG0642	2-01	Prepared &	Analyzed:	07/22/14				
Cyanide (total)	0.0835	0.0050	mg/L	0.100	ND	84	75-125			
Matrix Spike Dup (CX05002-MSD1)	Sou	rce: CXG064	2-01	Prepared &	Analyzed:	07/22/14				
Cyanide (total)	0.0850	0.0050	mg/L	0.100	ND	85	75-125	2	25	

Page 4 of 4

07/22/14 12:26

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21

Project: STR14072145
Project Number: STR14072145

CLS Work Order #: CXG0893

Project Manager: Reyna Vallejo COC #:

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

Sparks, NV 89431

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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

EMail Address Phone Number Report Attention

thartwell@stratusinc.net (530) 676-6004 x Trevor Hartwell

EDD Required: Yes

Sampled by : C. Hill

WorkOrder: STR14072145

Report Due By: 5:00 PM On: 22-Jul-14

Date Printed Samples Received Cooler Temp 21-Jul-14 22-Jul-14 0°C

RUSH

PO:

Client:

Client's COC #: 16592

Cameron Park, CA 95682-8861

Stratus Environmental

3330 Cameron Park Drive

Job: Olympic

QC Level: S3

Suite 550

= Final Rpt, MBLK, LCS, MS/MSD With Surrogates

				-							ed Tests		
Alpha Sample ID	Client Sample ID	Matrix	Collection c Date	No. of Alpha	Bottle: Sub	TAT	245_1_W	CYANIDE_ TOTAL_W	METALS_D W	PHENOLS_ SIM_W	TPH/P_W	voc_w	Sample Remarks
STR14072145-01A	EFFW Oly	AQ	07/21/14 09:00	7	1	1	Hg	TOTAL CYANIDE	Pb, As, Cd, Cu, Ni, Se, Ag, Cr, Zn	PHENOLS	GAS-C	BTXE/M_C	

Comments:

Prelogged on 7/21/14 in order to sub Cyanide to CLS by Sac office. Remaining samples received on 7/22/14. Security seals intact. Frozen ice. Chain split into separate workorders due to different

TAT. ASAP TAT.:

Signature

Print Name

Company

Date/Time

Logged in by:

ARMADNA CHACON

Alpha Analytical, Inc.

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

Company: Attn: Address: City, State, Zip: Phone Number:	Billing Information: STATUS DA 5 1 1 4 3530 CHARLES INC. CHURY OF FAX:	71 DR 530676	Analytical is
			onmente

Main Laboratory: 255 Glendale Ave, Sulte 21 Sparks, NV 89431

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044 Fax: 775-355-0406

Phone: 702-281-4848

Phone: 916-366-9089 Phone: 714-386-2901 Phone: 775-388-7043

16592

Consultanti Client Info	Job and Purchase Order Info:		Attention/Project Manager:		QC Deliverable Inf	o:
Company: STUNIOS Address:	Job # Job Name: Oly M DIC	Name: Email Address:	Attention/Project Manager:	_ EDO Requi	ired? Yes / No	EDF Required? Yes / No
City, State, Zip:	P.O. #:	Phone #:		Global iD:		
Samples Collected from which State? (circle	one) AR (CA) KS NV OR WA DOD Site	Cell #: ,		Data Valida	ation Packages: III	or IV
			Analysis Req	uested		Remarks
Time Sampled (See Key Below) Lab ID Number (F. D. 254) D. 24.3 7 L. H.Q. (D. 254) D. 254) D. 247) D. 247 H.Q. (D. 254) D. 247 H.Q. (TAT # Containers" (See Key Below) ### Containers" (See Key Below)	XXXX GRO 124 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	15200.		metals Aspel, cu Hg Ni, se Ag, Cr, Zn
ADDITIONAL INSTRUCTIONS:						
					•	
(field sampler) attast to the validity and authenticity of the	sample(s). I am aware that tampering with or intentionally mislabeling	the sample location, date or tim	e of collection is considered fraud and	may be grounds for legal actio	in. NAC 445.0636 (c) (2).	
Religious State of St	7-21-14 Time: 1126 Recei	ved by: (Signature/Affiliation):	T	C	Date: 7-21-14	Time: (1.7.0)
Relingdished by: (Signature/Affiliation):	Dete: Yime: Receiv	ved by: (Signature/Artitation):		0	Date: 7122/14	Time: 1009
Relinquished by: (Signature/Affiliation):	Date: Time: Receiv	ved by: (Signature/Affiliation):	0	C	Date:	Time:
* Key: AQ - Aque	ous WA - Waste OT - Other So-Soil **L -	Liter V - VOA S-So	il Jar O - Orbo T - Tedlar	B - Brass P - Plastic	OT - Other	
NOTE: Samples are discarded 60 days after sample receipt userseived by the laboratory with this COC. The liability of the lab	less other arrangements are made. Hazardous samples will be returned to tratory is limited to the amount paid for the report.	client or disposed of at client expe	ense. The report for the analysis of the a	bove samples is applicable only	to those samples	



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn: Debbie Barr

Phone: (530) 676-6000 (530) 676-6005

Date Received: 07/29/14

Job:

Olympic Station

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID:	EFF W Oly			Dillite	DAMBOOG	1111419 204
Lab ID :	STR14072940-01A	TPH-P (GRO)	ND	50 μg/L	07/30/14	07/30/14
Date Sampled	07/29/14 05:55	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	07/30/14	07/30/14
		Benzene	ND	0.50 μg/L	07/30/14	07/30/14
		Toluene	ND	0.50 μg/L	07/30/14	07/30/14
		Ethylbenzene	ND	0.50 μg/L	07/30/14	07/30/14
		m,p-Xylene	ND	$0.50~\mu g/L$	07/30/14	07/30/14
		o-Xylene	ND	0.50 µg/L	07/30/14	07/30/14

Gasoline Range Organics (GRO) C4-C13

This replaces the report signed 7/30/14 due to a change in the Date Sampled, due to lab error.

ND = Not Detected

Reported in micrograms per Liter, per client request.

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



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

VOC Sample Preservation Report

Work Order: STR14072940	Job: Olympic Station			
Alpha's Sample ID	Client's Sample ID	Matrix	рН	
14072940-01A	EFF W Oly	Aqueous	2	

7/30/14 Report Date

3249 Fitzgerald Road Rancho Cordova, CA 95742

August 01, 2014

CLS Work Order #: CXG1161 COC #:

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

Project Name: STR14072940

Enclosed are the results of analyses for samples received by the laboratory on 07/29/14 11:34. 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

Page 1 of 4 08/01/14 09:33 Alpha Analytical, Inc.-Sparks Project: STR14072940 255 Glendale Ave.; Suite 21 CLS Work Order #: CXG1161 Project Number: STR14072940 Sparks, NV 89431 COC#: Project Manager: Reyna Vallejo CXG /16/ AMENDED Alpha Analytical, Inc. 255 Gerdale Avenue Report Due By : 5:00 PM Suita 21 Work Order: STR14072940 Sparks, Nevada 8943 .4778 On: 30-Jul-14 Phote: (775; 355-3046 Please reference the Work Order number on all reports and invoices. rac (771) 355-0436 *Also please include the dates of analysis and detection limits. Please send the report to Alpha Annivileal (Spacks). Required QC: Final Rpt, MBCK, LCS, MS/MSD With Surrogates Subcontractor Attention To Royna Valleio (reyna@alphn-analytical.com). CLS Lags Hi: (916) 638-7501 3246 Fitzgered Rd. FAX: (916) 638-4510 Sampled by : C. Hill Renciro Cordove, CA 95742 AXX # 01-Aug-14 Dequested Trate Tena i at of Doorse Medicina a entità Date Printerior Other Sample Comment NTR MOTORES MA 97120PL4 93683 13 a mark them with Comments: Amouded in order house surple free Date/Thos Dute/Time Refinquiahed by: Received by: Relinquished by: Received by:

Page 2 of 4

08/01/14 09:33

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21

Project: STR14072940
Project Number: STR14072940

CLS Work Order #: CXG1161

Sparks, NV 89431

Project Manager: Reyna Vallejo

COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR14072940-01A (EFF W Oly) (CX	XG1161-01) Aqueous	Sample	1: 07/29	/14 05:55	Received	: 07/29/14 11	:34		
Phenolics	0.023	0.010	mg/l.	1	CX05179	07/29/14	07/29/14	EPA 420.1	

Fax: 916-638-4510

Page 3 of 4

08/01/14 09:33

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

Project: STR14072940

Project Number: STR14072940 Project Manager: Reyna Vallejo CLS Work Order #: CXG1161

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 CX05179 - General Preparation										
Blank (CX05179-BLK1)		-		Prepared	& Analyze	ed: 07/29/	14			
Phenolics	ND	0.010	mg/L							
LCS (CX05179-BS1)				Prepared	& Analyze	ed: 07/29 /	14			
Phenolics	0.214	0.010	mg/L	0.200		107	80-120			
LCS Dup (CX05179-BSD1)				Prepared	& Analyze	ed: 07/29 /	14			
Phenolics	0.213	0.010	mg/L	0.200		106	80-120	0.7	25	
Matrix Spike (CX05179-MS1)	So	urce: CXG10	10-01	Prepared	& Analyze	ed: 07/29/	14			
Phenolics	0.204	0.010	mg/L	0.200	0.00810	98	75-125			
Matrix Spike Dup (CX05179-MSD1)	So	urce: CXG10	10-01	Prepared	& Analyz	ed: 07/29/	14			
Phenolics	0.204	0.010	mg/L	0,200	0.00810	98	75-125	0	30	

Fax: 916-638-4510

Page 4 of 4

08/01/14 09:33

Alpha Analytical, Inc.-Sparks

255 Glendale Ave.; Suite 21

Sparks, NV 89431

Project Number: STR14072940

CLS Work Order #: CXG1161

COC #:

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Fax: 916-638-4510

Dillina	Inform	otion	٠
Billing	IIIIOIII	auvii	٠

Suite 550

PO:

Cameron Park, CA 95682-8861

CHAIN-OF-CUSTODY RECORD

CA

WorkOrder: STR14072940

Report Due By: 5:00 PM On: 30-Jul-14

AMENDED

Alpha Analytical, Inc.

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

Client:	Report Attention	Phone Number	EMail Address	
Stratus Environmental	Debbie Barr	(530) 676-6000 x	dbarr@stratusinc.net	
3330 Cameron Park Drive			<u> </u>	

05:55

EDD Required: Yes

Sampled by : C. Hill

Samples Received Date Printed

3 °C 29-Jul-14 01-Aug-14

Job: Olympic Station Client's COC #: 16332 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates OC Level: S3 Requested Tests Collection No. of Bottles TPH/P_W VOC W PHENOLS Client Alpha SIM W Sample Remarks TAT Alpha Sub Matrix Date Sample ID Sample ID Pentachloron GAS-C BTXE/M C 07/29/14 3 AQ STR14072940-01A EFF W Oly henol/2,3,4,6

> Tetrachlorop henol

Comments:

Prelogged on 7/29/14 in order for Sac office to sub Phenols to CLS, Remaining samples received on 7/30/14, Security seals intact. Frozen ice. ASAP TAT, Amended on 8/01/14 in order to correct

login error on sampling date. AC:

Signature

Print Name

Company

Date/Time

Logged in by:

WIADNA

Alpha Analytical, Inc.

1011111

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

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

Billing	Information	;
---------	-------------	---

CHAIN-OF-CUSTODY RECORD



Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

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

Phone Number

WorkOrder: STR14072940

Report Due By: 5:00 PM On: 30-Jul-14

Client:

Stratus Environmental 3330 Cameron Park Drive Suite 550

Cameron Park, CA 95682-8861

Client

Sample ID

EFF W Oly

Report Attention Debbie Barr

dbarr@stratusinc.net (530) 676-6000 x

EMail Address

EDD Required: Yes

Sampled by : C. Hill

PO:

Alpha

Sample ID

Client's COC #: 16332

Olympic Station

Cooler Temp 3°C

Samples Received 29-Jul-14

Date Printed 30-Jul-14

TPH/P W

QC Level: S3

STR14072940-01A

= Final Rot, MBLK, LCS, MS/MSD With Surrogates

Collection No. of Bottles Alpha Matrix Date AQ

05:55

Sub 07/24/14

PHENOLS_ TAT Pentachlorop

GAS-C BTXE/M C henol/2,3,4,6

Requested Tests

Sample Remarks

Tetrachlorop henol

Comments:

Prelogged on 7/29/14 in order for Sac office to sub Phenols to CLS. Remaining samples received on 7/30/14. Security seals intact, Frozen ice. ASAP TAT.

Logged in by:

Signature

Print Name

Company

Date/Time

ACIADNA CHACON

Alpha Analytical, Inc.

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

Company: Attn: Address: 3330 Camerus Ph DK

Alpha Analytical, Inc.

Main Laboratory: 255 Glendale Ave, Sulte 21 Sparks, NV 89431

Phone: 775-355-1044

Fax: 775-355-0406

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Northern NV: 1250 Lamollle Hwy., #310, Elko, NV 89801 Southern NV: 6255 McLeod Ave, Sulte 24, Las Vegas, NV 89120

Phone: 916-366-9089 Phone: 714-386-2901 Phone: 775-388-7043

Phone: 702-281-4848

16332

								1 22					A valleye X	
		nd Purchase Order Info:	, and the second second	F	Report At	tention/	15 1/4 No	Charlette Later		***************************************		QC D	eliverable i	nfo:
Company: Company:	Job #	Alani	4+'	Name:			bre				EDD Re	quired? Yes /	No	EDF Required? Yes / No
Address:	Job Name:	Clympic 5	THIBL	Email Add	fress:						Global II	١.		
City, State, Zip:	P.O.#:			Phone #: Cell #:								 Idation Package	es: III	or IV
Samples Collected from which State? (c				OG# #.								action i acres	· III	
								Analy	sis Reque	sted		T T	$\neg \tau$	Remarks
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Time Date Matrix* Sampled Sampled (See Key		Complete Description	TAT	Conf	$\overline{}$	12	2	3	21					
720 M A A	ber (For Lab Use Only)	Sample Description		-	Yes No)	7	7		_		+		-
0335 734 AQ STELLIOT		w oly	24	5		ノ	,		~					
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The Housest												-		
ADDITIONAL INSTRUCTIONS:	Parameter Street, and the Street Stre													
I (field sampler) attest to the validity and authenticity	y of this sample(s). I am aware that tamper	ing with or intentionally mislabe	aling the sample i	location, da	ite or time	of collect	ion is con	sidered fi	raud and r	nay be groun	ds for legal ac	tion. NAC 445	.0636 (c) (2)	
Relinguished by: (Signature/Affiliation);	Date	Time:	Received by: (Slan	ature/Affiliat	tion):							Date:		Time:
Will Store	7.29-14	0834	EIM	nci	ow	ue						072	914	0834
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Sign	iture/Amilia	lon):							Date:	- 1111	Time:
						<u> </u>						1/3	7/14	0993
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Sign	ature/Affillat	tion):							Date:	•	Time:
* Key: AQ				- VOA	S-Soil		O - Orbo		Tedlar	B - Brass	P - Plasi			
NOTE: Samples are discarded 60 days after sample re- received by the laboratory with this COC. The liability of	ceipt unless other arrangements are made. It the laboratory is limited to the amount paid fo	lazardous samples will be returne r the report.	ed to client or disp	osed of at c	zient exper	ise. The r	eport for ti	ne anaryst	sorme ab	ove samples (e abbacable or	ily to those sam	pies	



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: Trevor Hartwell Phone: (530) 676-6004 Fax: (530) 676-6005 Date Received: 08/19/14

Job:

Olympic Station

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

		Parameter	Concentration	Reporting	Date	Date
				Limit	Extracted	Analyzed
Client ID:	INF W Oly					
Lab ID:	STR14081941-01A	TPH-P (GRO)	170	50 μg/L	08/20/14	08/20/14
Date Sampled	08/18/14 07:15	Methyl tert-butyl ether (MTBE)	39	0.50 μg/L	08/20/14	08/20/14
		Benzene	3.4	0.50 μg/L	08/20/14	08/20/14
		Toluene	ND	0.50 μg/L	08/20/14	08/20/14
		Ethylbenzene	0.97	0.50 μg/L	08/20/14	08/20/14
		m,p-Xylene	ND	0.50 μg/L	08/20/14	08/20/14
		o-Xylene	ND	0.50 μg/L	08/20/14	08/20/14

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.

ACCIASS
ACCREDITED
Dod ELAP

Toger Scholl Nandy Salmer Dal

Acoger 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

ع 8/

Report Date



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

VOC Sample Preservation Report

Work Order: STR14081941	Job: Olympic Station			
Alpha's Sample ID	Client's Sample ID	Matrix	рН	
14081941-01A	INF W Oly	Aqueous	2	

8/21/14 Report Date



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

Date: 25-Aug-14	QC Sur	nmary	Report			Work Orde 14081941	r:
Method Blank	Type MBI	LK Te	st Code: EPA Me	thod SW80	15B/C / SW8260B		_
File ID: C:\HPCHEM\M\$10\DATA\140820\14082009.D		Bat	tch ID: MS10W08	20B	Analysis Date:	08/20/2014 14:29	
Sample ID: MBLK MS10W0820B Units: µg/I	_ Ri	un ID: MS	D 10 140820A		Prep Date:	08/20/2014 14:29	
Analyte Result	PQL	SpkVal	SpkRefVal %RE0	C LCL(ME)	UCL(ME) RPDRef	/al %RPD(Limit)	Qual
TPH-P (GRQ) ND	50		· · · · · · · · · · · · · · · · · · ·				
Surr: 1,2-Dichloroethane-d4 9.57		10	96	70	130		
Surr. Toluene-d8 11.2		10	112	70	130		
Surr: 4-Bromofluorobenzene 11		10	110	70	130		_
Laboratory Control Spike	Type LCS	3 Te	st Code: EPA Me	thod SW80	15B/C / SW8260B		
File ID: C:\HPCHEM\MS10\DATA\140820\14082008.D		Ba	tch ID: MS10W06	20B	Analysis Date:	08/20/2014 14:08	
Sample ID: GLCS MS10W0820B Units: µg/I	L R	un ID: MS	D_10_140820A		Prep Date:	08/20/2014 14:08	
Analyte Result	PQL	SpkVal	SpkRefVal %RE	C LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
TPH-P (GRO) 405	50	400	101	70	130		
Surr: 1,2-Dichloroethane-d4 9.63		10	96	70	130		
Surr: Toluene-d8 10.7		10	107	70	130		
Surr: 4-Bromofluorobenzene 11.7		10	117	70	130		
Sample Matrix Spike	Type MS	Te	st Code: EPA Me	thod SW80	15B/C / SW8260B		
File ID: C:\HPCHEM\MS10\DATA\140820\14082020.D		Ba	itch ID: MS10W0	320B	Analysis Date:	08/20/2014 18:36	
Sample ID: 14081941-01AGS Units : μg/	L R	un ID: MS	SD_10_140820A		Prep Date:	08/20/2014 18:36	
Analyte Result	PQL	SpkVal	SpkRefVal %RE	C LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
TPH-P (GRO) 6620	250	4000	174.9 161	54	143		M1
Surr: 1,2-Dichloroethane-d4 57.4		50	115	70	130		
Surr. Toluene-d8 47.2		50	94	70	130		
Surr: 4-Bromofluorobenzene 58.9		50	118	70	130		
Sample Matrix Spike Duplicate	Type MS	D Te	st Code: EPA Me	thod SW80	15B/C / SW8260B		
File ID: C:\HPCHEM\M\$10\DATA\140820\14082021.D		Ва	itch ID: MS10W0	320B	Analysis Date:	08/20/2014 18:57	
Sample ID: 14081941-01AGSD Units : μg/	L R	un ID: MS	SD_10_140820A		Prep Date:	08/20/2014 18:57	
Analyte Result	PQL	SpkVal	SpkRefVal %RE	C LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
TPH-P (GRO) 5850	250	4000	174.9 142	54	143 661	8 12.2(23)	
Surr: 1,2-Dichloroethane-d4 54.2		50	108		130		
Surr: Toluene-d8 50.3		50	101		130	•	
Surr: 4-Bromofluorobenzene 60.5		50	121	70	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.

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

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: 25-Aug-14		QC Sı	ımmar	y Repor	t				Work Orde 14081941	
Method Blank File ID: C:\HPCHEM\MS10\DATA\140820\1	4082009.D	Туре М		est Code: Ef				s Date:	08/20/2014 14:29	
Sample ID: MBLK MS10W0820A	Units: µg/L		Run ID: M	SD_10_1408	820A		Prep Da	ate:	08/20/2014 14:29	
Analyte	Result	PQL	SpkVai	SpkRefVal	%REC	LCL(ME)	UCL(ME) R	PDRefV	al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5		· · · · ·						
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene m,p-Xylene	ND ND	0.5								
o-Xylene	ND ND	0.5 0.5								
Surr: 1,2-Dichloroethane-d4	9.57	0.5	10		96	70	130			
Surr: Toluene-d8	11.2		10		112	70	130			
Surr: 4-Bromofluorobenzene	11	_	10		110	70	130			
Laboratory Control Spike		Type L	CS To	est Code: El	PA Meti	hod SW82	:60B			
File ID: C:\HPCHEM\MS10\DATA\140820\1	4082007.D		B	atch ID: MS	10W082	:0A	Analysi	s Date:	08/20/2014 13:26	
Sample ID: LCS MS10W0820A	Units : µg/L		Run ID: M	SD_10_140	B20A		Prep Da	ate:	08/20/2014 13:26	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) R	PDRefV	al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10	0.5	10		100	63	137			
Benzene	9.33	0.5	10		93	70	130			
Toluene	10	0.5			100	80	120			
Ethylbenzene	10.6	0.5			106	80	120			
m,p-Xylene o-Xylene	11.1	0.5			111	65 70	139			
Surr. 1,2-Dichloroethane-d4	10.9 10.2	0.5	10 10		109 102	70 70	130 130			
Sur: Toluene-d8	10.3		10		102	70	130			
Surr: 4-Bromofluorobenzene	11.2		10		112	70	130			
Sample Matrix Spike		Type N	IS T	est Code: E	PA Met	hod SW82	260B		-	
File ID: C:\HPCHEM\MS10\DATA\140820\1	4082018.D		В	atch ID: MS	10W082	20A	Analysi	s Date:	08/20/2014 17:54	
Sample ID: 14081941-01AMS	Units : բաց/L		Run ID: M	SD_10_140	820A		Prep D	ate:	08/20/2014 17:54	
Analyte	Result	PQL				LCL(ME)	UCL(ME) F	RPDRefV	/al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	126	1.3	50	39.41	173	56	140			M1
Benzene	59.9	1.3	50	3.35	113	67	134			
Toluene	54.5	1.3		0		38	130			
Ethylbenzene	59.2	1.3	50	0.97	117	70	130			
m,p-Xylene	60.6	1.3		0	. — .	65	139			
o-Xylene	59.6	1.3		0		69	130			
Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	63.3		50		127	70 70	130 130			
Surr: 4-Bromofluorobenzene	47.9 51.1		50 50		96 102	70	130			
Sample Matrix Spike Duplicate		Type N	ASD T	est Code: E	PA Met	hod SW8	260B			
File ID: C:\HPCHEM\MS10\DATA\140820\1	14082019.D	••		atch ID: MS	10W08	20A	Analys	is Date:	08/20/2014 18:15	
Sample ID: 14081941-01AMSD	Units : µg/L			SD_10_140			Prep D		08/20/2014 18:15	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	RPDRef\	/al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	120	1.3				56	140	126.1		M1
Benzene	57.1	1.3				67	134	59.89		
Toluene	51.5	1.3				38	130	54.45		
Ethylbenzene	54.6 56.7	1.3				70 65	130 139	59.23 60.55		
m,p-Xylene o-Xylene	56.7 54.4	1.3 1.3				69	139	59.63		
Surr: 1,2-Dichloroethane-d4	62.1	1.4	5 50		124	70	130	JJ.UC	J. 1.1(10)	
Surr: Toluene-d8	48.6		50		97	70	130			
Surr: 4-Bromofluorobenzene	55.5		50		111	70	130			



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

Date:
25-Aug-14

QC Summary Report

Work Order: 14081941

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.

Billing Information:

Suite 550

Client:

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

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

Phone Number **EMail Address** Report Attention thartwell@stratusinc.net Trevor Hartwell (530) 676-6004 x

EDD Required: Yes

Sampled by : C. Hill

Date Printed Cooler Temp Samples Received 19-Aug-14 0°C

CA RUSH

Report Due By: 5:00 PM On: 21-Aug-14

WorkOrder: STR14081941

19-Aug-14

Cameron Park, CA 95682-8861 PO:

Stratus Environmental

3330 Cameron Park Drive

Client's COC #: 16335

Job: Olympic Station

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

								Request	ted Tests		
Alpha Sample ID	Client Sample ID	Collection Matrix Date		Bottles Sub	TAT	TPH/P_W	VOC_W				Sample Remarks
STR14081941-01A	INF W Oly	AQ 08/18/14 07:15	4	0	2	GAS-C	BTXE/M_C				

Comments:	Security seals intact. Frozen ice, Chain split into three different we	ork orders due to different TAT, 48hr TAT, :		
	Signature	Print Name	Company	Date/Time
Logged in by:		AMADRA CHACON	Alpha Analytical, Inc.	799114 C9141

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 llability of the laboratory is limited to the amount paid for the report. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

	Billing Information:	
Company:	SIVATO	1203
Attn:	Debbie	17
Address:	5330 Camera 1-2 DIZ	111
City, State, Zip:	Cameras Ph ex	1.7
Phone Number:	538676 6084 Fax: 538676666	120
	•	/



Main Laboratory: 255 Giendale Ave, Suite 21 Sparks, NV 89431

Fax: 775-355-0406

Phone: 775-355-1044

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Northern NV: 1250 Lamolile Hwy., #310, Elko, NV 89801 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 916-366-9089 Phone: 714-388-2901 Phone: 775-388-7043 Phone: 702-281-4848 16335

CARA			i in s					Mail 1										K1 (ilia ka	453.45
	Cg	psyltant/	Client Info	:		Job a	and Purcha	se Order	info:		R	eport /	Attention	Project	Manager	:				QC	Deliver	able Info) :		
Company: Address:		57 m	ヤフ		_	lob # lob Name:	12/4	1 m/201	Sta	Free.	Name: Email Add		150	VOU'	-				EDD Req	uired? Yes	s / No		EDF Req	uired? Y	aa / No
City, State,	Zip:				_	P.O. #:		1			Phone #:	1000.							Global ID	: .					
		d from w	thich Stat	e? (circle one)	AR /	XX KS	W OR	WA	DOD Site	Other	Cell #:								Data Valid	dation Pack	ages:	111	or	IV	
															Analy	els Reque	sted							Remarks	
Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab II	D Number (For Lab U	se Only)	INF GACI GACZ EFF	w	Description O(O() O()	<i>y</i>	72 510 \$70 24	トトイト # Containers** (See Key Below)	Yes No X	メント	YOYD BTex SIKA	TY YK MTBE 8200	rais Reque	sted							Remarks	
ADDITIONA I (flotd sam Sampled B Retingnishe Retinquished	pler) attest	to the valid	By and authority in its property in its proper	enticity of this samp	lo(e). I am a	ware that tampe		Intentionally I/O O	Receiv	ed by: (Sign ed by: (Sign ad by: (Sign	location, da sature/Affiliat SS curre/Affiliat ature/Affiliat	ion): LT ion):	ر ر	O - Orbo		raud and n	nay be gro			Date: Date: Date: Date:	-18- -0ther		Time:	00	
NOTE: Sam	ples are dis	carded 60 de		ple receipt unless of															-						
received by t	he laborator	y with this C	OC. The liab	ility of the laboratory	s limited to t	he amount paid f	or the report.								-		·								



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn: Trevor Hartwell Phone: (530) 676-6004 Fax: (530) 676-6005 Date Received: 08/19/14

Job:

Olympic Station

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID:	GAC1 W Oly			Zimi	Litatoria	1 111111) 200
Lab ID:	STR14081942-01A	TPH-P (GRO)	ND	50 μg/L	08/20/14	08/20/14
Date Sampled	08/18/14 07:10	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	08/20/14	08/20/14
		Benzene	ND	0.50 μg/L	08/20/14	08/20/14
		Toluene	ND	0.50 μg/L	08/20/14	08/20/14
		Ethylbenzene	ND	0.50 μg/L	08/20/14	08/20/14
		m,p-Xylene	ND	0.50 μg/L	08/20/14	08/20/14
		o-Xylene	ND	0.50 μg/L	08/20/14	08/20/14
Client ID:	GAC2 W Oly					
Lab ID:	STR14081942-02A	TPH-P (GRO)	ND	50 μg/L	08/20/14	08/20/14
Date Sampled	08/18/14 07:05	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	08/20/14	08/20/14
		Benzene	ND	0.50 μg/L	08/20/14	08/20/14
		Toluene	ND	0.50 μg/L	08/20/14	08/20/14
		Ethylbenzene	ND	0.50 μg/L	08/20/14	08/20/14
		m,p-Xylene	ND	0.50 μg/L	08/20/14	08/20/14
		o-Xylene	ND	0.50 μg/L	08/20/14	08/20/14

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.

ACLASS
ACCHEDITED
DOD ELAP

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Secramento, 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.

Ded ELAP 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

8/26/14

Report Date



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

VOC Sample Preservation Report

Work Order: STR14081942

Job:

Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pН	
14081942-01A	GAC1 W Oly	Aqueous	2	
14081942-02A	GAC2 W Oly	Aqueous	2	

8/26/14

Report Date



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

Date: 26-Aug-14	QC S	ımmar	y Repor	t				Work Orde 14081942	
Method Blank File ID: C:\HPCHEM\MS10\DATA\140820\14082009.D	Type N		est Code: EF					08/20/2014 14:29	
Sample ID: MBLK MS10W0820B Units : µg/L			SD 10 1408		.,,,	Prep [08/20/2014 14:29	
Analyte Result	PQL				LCL(ME)			/al %RPD(Limit)	Qual
TPH-P (GRO) ND	50		ори. колос.	701.1-0		002(11.2)	Tu Ditor	rai vora b(Entite)	
Surr: 1,2-Dichloroethane-d4 9.57		10		96	70	130			
Surr: Toluene-d8 11.2		10		112	70	130			
Surr: 4-Bromofluorobenzene 11		10		110	70	130			
Laboratory Control Spike	Type L	CS Te	est Code: EF	A Met	hod SW80	15B/C / S	W8260B		
File ID: C:\HPCHEM\MS10\DATA\140820\14082008.D		Ba	atch ID: MS1	0W082	20B	Analys	sis Date:	08/20/2014 14:08	
Sample ID: GLCS MS10W0820B Units: µg/L	-	Run ID: M	SD_10_1408	20A		Prep [Date:	08/20/2014 14:08	
Analyte Result	PQL	SpkVai	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO) 405	50	400		101	70	130			
Surr: 1,2-Dichloroethane-d4 9.63		10		96	70	130			
Surr: Toluene-d8 10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene 11.7		10		117	70	130			
Sample Matrix Spike	Type N	IS To	est Code: Ef	A Met	hod SW80	15B/C / S	W8260B		
File ID: C:\HPCHEM\MS10\DATA\140820\14082020.D		Ba	atch ID: MS1	0W082	20B	Analys	sis Date:	08/20/2014 18:36	
Sample ID: 14081941-01AGS Units : μg/l	L	Run ID: M	SD_10_1408	320A		Prep (Date:	08/20/2014 18:36	
Analyte Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef\	/al %RPD(Limit)	Qual
TPH-P (GRO) 6620	250	4000	174.9	161	54	143			M1
Surr: 1,2-Dichloroethane-d4 57.4		50		115	70	130			
Surr: Toluene-d8 47.2		50		94	70	130			
Surr: 4-Bromofluorobenzene 58.9		50		118	70	130			
Sample Matrix Spike Duplicate	Type N	ISD T	est Code: El	PA Met	hod SW80	15B/C / S	W8260B		
File ID: C:\HPCHEM\MS10\DATA\140820\14082021.D		В	atch ID: MS1	10W08	20B	Analys	sis Date:	08/20/2014 18:57	
Sample ID: 14081941-01AGSD Units : μg/I	L	Run ID: M	SD_10_1408	320A		Prep (Date:	08/20/2014 18:57	
Analyte Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef	/al %RPD(Limit)	Qual
TPH-P (GRO) 5850	250	4000	174.9	142	54	143	6618	3 12.2(23)	
Surr: 1,2-Dichloroethane-d4 54.2		50		108	70	130		, ,	
Surr: Toluene-d8 50.3		50		101	70	130			
Surr: 4-Bromofluorobenzene 60.5		50		121	70	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.

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

Reported in micrograms per Liter, per client request,



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Date: 26-Aug-14		(QC Si	ımmar	y Repor	t				Work Ord 1408194	
Method Bla			Type N	BLK T	est Code: El	PA Met	hod SW82	60B			
File ID: C:\HP	CHEM\MS10\DATA\140820\	14082009.D		Ва	atch ID: MS1	10W082	10A	Analy	sis Date:	08/20/2014 14:29	
Sample ID:	MBLK MS10W0820A	Units: µg/L		Run ID: M	SD_10_1408	320A		Prep (Date:	08/20/2014 14:29	
Analyte		Result	PQL				LCL(ME)	UCL(ME)	RPDRef\	Val %RPD(Limit)	Qual
Methyl tert-but	tyl ether (MTBE)	ND	0.5						•		
Benzene		ND	0.5								
Toluene		ND	0.5								
Ethylbenzene m,p-Xylene		ND ND	0.5 0.5								
o-Xylene		ND	0.5								
Surr: 1,2-Dichl		9.57		10		96	70	130			
Surr: Toluene-		11.2		10		112	70	130			
Surr: 4-Bromo	fluorobenzene	11		10		110	70	130			
Laboratory	Control Spike		Type L	CS To	est Code: El	PA Met	hod SW82	260B			
	CHEM\MS10\DATA\140820\	14082007.D		Ва	atch ID: MS1	10W082	20A	Analy	sis Date:	08/20/2014 13:26	
Sample ID:	LCS MS10W0820A	Units : µg/L		Run ID: M	SD_10_1408	820A		Prep		08/20/2014 13:26	
Analyte		Result	PQL				LCL(ME)	UCL(ME)	RPDRef	Val %RPD(Limit)	Qual
Methyl tert-but	tyl ether (MTBE)	10	0.5			100	63	137			
Benzene	, -,	9.33	0.5			93	70	130			
Toluene		10	0.5	_		100	80	120			
Ethylbenzene		10.6	0.5			106	80	120			
m,p-Xylene o-Xylene		11.1 10.9	0.5 0.5			111 109	65 70	139 130			
Surr: 1,2-Dich	loroethane-d4	10.2	0.0	10		103	70	130			
Surr: Toluene-		10.3		10		103	70	130			
Surr: 4-Bromo	fluorobenzene	11,2		10		112	70	130			
Sample Mat	trix Spike		Type N	AS T	est Code: El	PA Met	hod SW82	260B			
File ID: C:\HP	CHEM\MS10\DATA\140820\	14082018.D		В	atch ID: MS	10W082	20A	Analy	sis Date:	08/20/2014 17:54	
Sample ID:	14081941-01AMS	Units : µg/L		Run ID: M	SD_10_140	820A		Prep	Date:	08/20/2014 17:54	
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRef	Val %RPD(Limit)	Qual
Methyl tert-but	tyl ether (MTBE)	126	1.3	50	39.41	173	56	140			M1
Benzene	,	59.9	1.3		3.35		67	134			
Toluene		54.5	1.3		0		38	130			
Ethylbenzene		59.2	1.3	-	0.97		70	130			
m,p-Xylene o-Xylene		60.6 59.6	1.3		0		65 60	139			
Surr: 1,2-Dich	loroethane-d4	63.3	1.3	50 50	U	119 127	69 70	130 130			
Surr: Toluene-		47.9		50		96	70	130			
Surr: 4-Bromo	ofluorobenzene	51.1		50		102	70	130			
Sample Mar	trix Spike Duplicate		Type I	ASD T	est Code: E	PA Met	hod SW8	260B			
	CHEM\MS10\DATA\140820\	14082019.D	•••		atch ID: MS				sis Date:	08/20/2014 18:15	;
Sample ID:	14081941-01AMSD	Units : µg/L			SD_10_140			Prep		08/20/2014 18:15	
Analyte		Result	PQL				LCL(ME)	,		Val %RPD(Limit)	Qual
	tyl ether (MTBE)	120	1.3				56	140	126.		M1
Benzene	·	57.1	1.3		3.35		67	134	59.8	` '	141 1
Toluene		51.5	1.3		0.00		38	130	54.4		
Ethylbenzene		54.6	1.3	3 50	0.97		70	130	59.2	3 8.2(20)	
m,p-Xylene		56.7	1.3		0		6 5	139	60.5		
o-Xylene Surr: 1.2-Dich	loroethane-d4	54.4 62.1	1.3	3 50 50	0	109 124	69 70	130 130	59.6	3 9.2(20)	
Surr: Toluene		48.6		50 50		97	70 70	130			
	ofluorobenzene	55.5		50		111	70	130			



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

Date: 26-Aug-14

QC Summary Report

Work Order: 14081942

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.

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

EMail Address Phone Number Report Attention thartwell@stratusinc.net (530) 676-6004 x Trevor Hartwell

Page: 1 of 1

WorkOrder: STR14081942

Report Due By: 5:00 PM On: 26-Aug-14

EDD Required: Yes

Sampled by : C. Hill

Samples Received Date Printed Cooler Temp 19-Aug-14 19-Aug-14 0°C

PO:

Client:

Client's COC #: 16335

Suite 550

Stratus Environmental

3330 Cameron Park Drive

Cameron Park, CA 95682-8861

Job: Olympic Station

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

UC Level . 33	- I marriph mostly	<u> </u>						Req	uested Tests			
Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Alpha	Bottles Sub	TAT	TPH/P_W	VOC_W					Sample Remarks
		AQ 08/18/14 07:10	4	0	5]	BTXE/M_C					
STR14081942-02A	GAC2 W Oly	AQ 08/18/14 07:05	4	0	5	GAS-C	BTXE/M_C			<u> </u>		

Comments:

Security seals intact. Frozen ice. Chain split into three different work orders due to different TAT.:

Company Print Name Signature OUAZON Alpha Analytical, Inc. Logged in by:

Date/Time

8/19/14 095

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

Company: Attr: Address: City, State, Phone Nurr		Styn Sebbi 330 Avnov BUZU	orgation: 2 Conneron Ph DIZ yn Ph CA biAl 4 Fax: 53867661	Analytical is a surface of the surfa	Narthern C Southern North	oratory: 255 Gle	e Service Ce ad, Suite C, Ra linguez SL, Sui moille Hwy., #3	va, CA 95827 n, CA 90746 v 89801	Phone: 775-35 Phone: 916-36 Phone: 714-38 Phone: 775-38 Phone: 702-28	16	335 	r		
Company: Address: City, State,	 Zip:	nsyltanti The	Jo	Job and Purchase Order Info: Display to the property of the p	atur e Other	Reprinted Programmers Remail Address Phone #: Cell #:		NEV	Manager:	Globai	QC Delivequired? Yes / No	erable in	fo: EDF Required?	
Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Contain	The Swelling	Btex soro	Analysis Requested				Remar	fk:
075	818	AR		INF W OLY	72	HV	XX	4	x	+		-		_
שולם	1	1	5 214081942-01A		STD	H-V	1 >	1	1	 		1	 	-
1785))	51214081942-02		STD	4-	XX	a	7					
O YOU	(AR		EFF W DIX	24	4-1	メル	人	<i>F</i>					
1														

the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2). 1100 Relinquished by: (Signature/Affiliation): Date: Time: * Key: AQ - Aqueous WA - Waste OT - Other So-Soil **L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hezardous 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.



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: Trevor Hartwell Phone: (530) 676-6004 Fax: (530) 676-6005 Date Received: 08/19/14

Job: Olympic Station

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

		Parameter	Concentration	Reporting	Date	Date
				Limit	Extracted	Analyzed
Client ID:	EFF W Oly					
Lab ID:	STR14081940-01A	TPH-P (GRO)	ND	50 μg/L	08/19/14	08/19/14
Date Sampled	08/18/14 07:00	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	08/19/14	08/19/14
		Benzene	ND	0.50 μ g /L	08/19/14	08/19/14
		Toluene	ND	0.50 μg/L	08/19/14	08/19/14
		Ethylbenzene	ND	0.50 μg/L	08/19/14	08/19/14
		m,p-Xylene	ND	0.50 μg/L	08/19/14	08/19/14
		o-Xylene	ND	0.50 μg/L	08/19/14	08/19/14

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.

ACL/ASS ACGREDITED Roger Scholl Kandy Soulner O.

oger L. Scholl, Ph.D., Laboratory Director · · Randy Gardner, Laboratory Manager · · · Walter I

Walter Striken

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 arry 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

8/19/



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

VOC Sample Preservation Report

Work Order: STR14081940	Job: Olympic Station			
Alpha's Sample ID	Client's Sample ID	Matrix	рН	
14081940-01A	EFF W Oly	Aqueous	2	

8/19/14

Report Date

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

Trevor Hartwell (530) 676-6004 x thartwell@stratusinc.net

EDD Required: Yes

Sampled by : C. Hill

WorkOrder: STR1408

Report Due By: 5:00 PM On: 19-Aug-14

Compled by (C. U

Cooler Temp

0 °C

Samples Received
19-Aug-14

Date Printed
19-Aug-14

PO:

Client:

PO.

Suite 550

Client's COC #: 16335

Stratus Environmental

3330 Cameron Park-Drive

Cameron Park, CA 95682-8861

Job: Olympic Station

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

								Reques	ted Tests		
Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Alpha	Bottles Sub	TAT	TPH/P_W	VOC_W				Sample Remarks
STR14081940-01A	EFF W Oly	AQ 08/18/14 07:00	4	0	0	GAS-C	BTXE/M_C				

Comments:

Security seals intact. Frozen ice. Chain split into three different work orders due to different TAT, ASAP TAT, :

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:
Company:	21/4509
Atin:	Debbie
Address:	3330 Connever Ph DIZ
City, State, Zip:	Camera Ph CH
Phone Number:	538474 6084 Fax 538676 6005



Main Laboratory: 255 Glendala Ave, Suite 21 Sparks, NV 89431

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Northern NV: 1250 Lamolile Hwy., #310, Elko, NV 89801

Phone: 775-355-1044

Fax: 775-355-0406

Phone: 916-366-9089

Phone: 714-386-2901

16335

Phone: 775-388-7043

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Company: Address: City, Stale,	_	onsultant/	CHent Info:				se Order I	into: Sta	Fran	Neme: Email Ad Phone #:	dress:	Attentio	on/Project	Manage	r:	- ·		EDO Req	uired? Ye	Deliver	able Info	EDF Required? Yo	ıs / No
		ed from v	vhich State? (circle one)			V OR	WA E	OOD Site	Other	Cell #:						_		Data Valle	dation Pac	kages:	JII	or IV	
No No.				and the second		$C_{i_{1}}$, $C_{i_{2}}$	" ")		Para de la constante de la con			1797	1		ysis Requ	ested						Remarks	
Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Łab iD Number (For Lab I	Jse Only)		Sample D	escription	,	TAT	# Containers* (See Key Below)	Kes Field Filtered?	TOH SWBOIST	Btex sozo	MTBE 8210									
275	818	AR			INF	W	01	y	72	HN			_	火									
8170	1	1			GACI	14/	Dly		STD	H-V	11.	1 >	- 1	K									
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															<u> </u>								
		L / I	Ity and authenticity of this samp	ile(s). I am aw	are that tamper	ng with or i	ntentionally	mislabeling t	the sample	location, da	ate or ti	me of coll	ection is co	nsidered f	raud and	may be gro	ounds fo	r legal acti	ion. NAC	445.0636 (c) (2).		
Sampled B Relingdishe	by Sigha	ure/Alifillatio	2 Jona Ken	Date:	8-14	Time:	100	Receiv	ed by: (Sign	SS6	tion):						_		Date:	-18-	14	Time:	
relinguishe	d by (Signal	fure/Affiliatio	in):	Date:	<u> </u>	Time:		Receiv	ed by (Sign	Jure/Affilia	lion):							-	Date:	7/16	1	Time 0924	2
Relinquishe	d by: (Signal	ture/Affiliatio	n):	Date:		Time:		Receiv	ed by: (Sign	nature/Affilia	tion):								Date.			Time:	
IOTE: 0			* Key: AQ - Aqueous	WA - W		- Other	So-Soil			/ - VOA		oil Jar	O - Orb		Tedlar	B - Bra		P - Plasti		- Other			
			ays after sample receipt unless of OC. The liability of the laboratory				impies will be	e returned to o	client or disp	posed of all	ment ex	pense. 11	ne report for	me analys	is of the a	oove sampl	es is app	nicabie only	y to those s	semples			



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: Trevor Hartwell Phone: (530) 676-6004 Fax: (530) 676-6005 Date Received: 09/09/14

Job:

Olympic

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date
Client ID:	Oly W INF			Lum	Extracted	Analyzed
Lab ID:	STR14090941-01A	TPH-P (GRO)	ND	50 μg/L	09/11/14	09/11/14
Date Sampled	Methyl tert-butyl ether (MTBE)		12	0.50 µg/L	09/11/14	09/11/14
		Benzene	0.89	0.50 µg/L	09/11/14	09/11/14
		Toluene	ND	0.50 μg/L	09/11/14	09/11/14
		Ethylbenzene	ND	0.50 µg/L	09/11/14	09/11/14
		m,p-Xylene	ND	0.50 μg/L	09/11/14	09/11/14
		o-Xylene	ND	0.50 μg/L	09/11/14	09/11/14

Gasoline Range Organics (GRO) C4-C13

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

*CL*SS
ACCHEDITED
DOD ELAP

Roger Scholl Kandy Souland

Walter Hinchman, Quality Assurance Officer

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

9/11

Report Date



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

VOC Sample Preservation Report

Work Order: STR14090941	Job: Olympic			
Alpha's Sample ID	Client's Sample ID	Matrix	рН	
14090941-01A	Oly W INF	Aqueous	2	

9/11/14
Report Date



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

Date: 15-Sep-14	(QC S	ummar	y Report				Work Order: 14090941		
Method Blank File ID: 14091105.D		Type N		est Code: EPA			15B/C / SW8260E Analysis Date	3 : 09/11/2014 13:14		
Sample ID: MBLK MS09W0911B	Units : μg/L		Run ID: MS	SD_09_14091	1A		Prep Date:	09/11/2014 13:14		
Analyte	Result	PQL	SpkVal	SpkRefVal %	REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qua	
TPH-P (GRO)	ND	50)							
Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	7.7		10		77	70	130			
Surr: 1 oluene-08 Surr: 4-Bromofluorobenzene	10.7		10		107	70	130			
	9.54		10		95	70	130			
Laboratory Control Spike		Type LCS Test Code: EPA Method SW8015B/C / SW8260B								
File ID: 14091103.D			Ва	itch ID: MS091	W 091	1B	Analysis Date	09/11/2014 11:34		
Sample ID: GLCS MS09W0911B	Units : µg/L									
Analyte	Result	PQL	SpkVal	SpkRefVal %	REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qua	
TPH-P (GRO)	428	50	400		107	70	130			
Surr: 1,2-Dichloroethane-d4	8.3		10		83	70	130			
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			
	9.8		10		98	70	130			
Sample Matrix Spike	Type MS Test Code: EPA Method SW8015B/C / SW8260B									
File ID: 14091120.D				itch ID: MS091		1B	Analysis Date	: 09/11/2014 19:32		
Sample ID: 14090941-01AGS	Units : µg/L		Run ID: MS	SD_09_14091 [.]	1A		Prep Date:	09/11/2014 19:32		
Analyte	Result	PQL	SpkVal	SpkRefVal %	REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qua	
TPH-P (GRO)	1850	250	2000	0	93	54	143	·		
Surr: 1,2-Dichloroethane-d4	41.5		50		83	70	130			
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	50.8		50		102	70	130			
	48.9		50		98	70	130			
Sample Matrix Spike Duplicate		Type M					15B/C / SW8260E	3		
File ID: 14091121.D				itch ID: MS09\		18	Analysis Date	09/11/2014 19:56		
Sample ID: 14090941-01AGSD	Units : µg/L		Run ID: MS	SD_09_14091 [,]	1A		Prep Date:	09/11/2014 19:56		
Analyte	Result	PQL	SpkVal	SpkRefVal %	REC	LCL(ME)	UCL(ME) RPDRe	Val %RPD(Limit)	Qual	
TPH-P (GRO)	1880	250		0	94	54	143 185	4 1.2(23)		
Surr: 1,2-Dichloroethane-d4	38.9		50		78	70	130	, ,		
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	50.9		50		102	70	130			
oun. 4-biofiloliuorobelizene	49.2		50		98	70	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.



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Date: 15-Sep-14	(QC Su	ımmar	y Report	t			Work Ord 14090941	
Method Blank File ID: 14091105.D	-	Туре М		est Code: EP				0044/00444044	
Sample ID: MBLK MS09W0911A	I Inite			atch ID: MS0		ITA	•	09/11/2014 13:14	
	Units : µg/L			SD_09_1409			Prep Date:	09/11/2014 13:14	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE) Benzene	ND	0.5							
Toluene	ND ND	0.5							
Ethylbenzene	ND ND	0.5 0.5							
m,p-Xylene	ND	0.5							
o-Xylene	ND	0.5					•		
Surr: 1,2-Dichloroethane-d4	7.7		10		77	70	130		
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	10.7		10		107	70	130		
	9.54		10		95	70	130		
Laboratory Control Spike		Type Lo	CS Te	est Code: EP	A Met	hod SW82	260B		
File ID: 14091104.D			В	atch ID: MS0	9W091	11A	Analysis Date:	09/11/2014 12:45	
Sample ID: LCS MS09W0911A	Units : µg/L		Run ID: MS	SD_09_1409	11A		Prep Date:	09/11/2014 12:45	
Analyte	Result	PQL	SpkVal	SpkRefVal ⁴	%REC	LCL(ME)	UCL(ME) RPDRef	Val %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	6.9	0.5	10		69	63	137		
Benzene	9.08	0.5	10		91	70	130		
Toluene Ethylbenzene	9.71	0.5	10		97	80	120		
m,p-Xylene	10.2 9.78	0.5	10		102	80	120		
o-Xylene	9.76 8.94	0.5 0.5	10 10		98 89	65 70	139 130		
Surr: 1,2-Dichloroethane-d4	6.93	0.5	10		69	70	130		S54
Surr: Toluene-d8	10,5		10		105	70	130		-
Surr: 4-Bromofluorobenzene	9.84		10		98	70	130		
Sample Matrix Spike		Type M	S Te	st Code: EP	A Met	hod SW82	260B		_
File ID: 14091118.D		,,		atch ID: MS0			-	09/11/2014 18:45	
Sample ID: 14090941-01AMS	Units : µg/L			SD_09_1409			Prep Date:	09/11/2014 18:45	
Analyte	Result	PQL				LCL(ME)	UCL(ME) RPDRef		Qual
Methyl tert-butyl ether (MTBE)	65.6							Vai 701(1 D(Limit)	
Benzene	50.6	1.3 1.3	50 50	12.49 0.89	106 100	56 67	140 134		
Toluene	49.1	1.3	50	0.09	98	38	130		
Ethylbenzene	52.9	1.3	50	Ō	106	70	130		
m,p-Xylene	49.5	1.3	50	0	99	65	139		
o-Xylene Surr: 1.2-Dichloroethane-d4	47.3	1.3	50	0	95	69	130		
Surr: Toluene-d8	43.4 48.4		50 50		87 97	70 70	130 130		
Surr: 4-Bromofluorobenzene	45.2		50		90	70	130		
Sample Matrix Spike Duplicate		Type M		est Code: EP	A Mod				_
File ID: 14091119.D		iypo m		atch ID: MS0				00/44/2044 40:09	
Sample ID: 14090941-01AMSD	Units : µg/L					I IA	Prep Date:	09/11/2014 19:08	
Analyte	Result	PQL		SD_09_1409		LOUMEN		09/11/2014 19:08	OI
			<u>`</u>				UCL(ME) RPDRef		Qual
Methyl tert-butyl ether (MTBE) Benzene	72.8 57.7	1.3 1.3		12.49 0.89	121 114	56 67	140 65.5 134 50.6	, ,	
Toluene	55.9	1.3	50	0.09	112	38	130 49.0	` '	
Ethylbenzene	59.5	1.3		ŏ	119	70	130 52.8	, ,	
m,p-Xylene	55.4	1.3	50	0	111	65	139 49.5	3 11.3(20)	
o-Xylene	53.3	1.3		0	107	69	130 47.3	3 11.9(20)	
Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	41.5 47.9		50 50		83 96	70 70	130 130		
Surr. 4-Bromofluorobenzene	47.9 45		50 50		90	70 70	130		
	45		50		50	, 0	.00		



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Date:	OC 9	Work Order:
15-Sep-14	QC Summary Report	14090941
		17070741

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.

S54 = Surrogate recovery was below laboratory acceptance limits.

Suite 550

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

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

EMall Address Report Attention Phone Number

Stratus Environmental 3330 Cameron Park Drive

thartwell@stratusinc.net Trevor Hartwell (530) 676-6004 x

EDD Required: Yes

Sampled by : C. Hill

Samples Received Cooler Temp

Date Printed

2°C

09-Sep-14

CARUS Fige: 1 of 1

Report Due By: 5:00 PM On: 11-Sep-14

WorkOrder: STR14090941

09-Sep-14

Sample Remarks

PO:

Client:

Client's COC#: 16338

Job: Olympic

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

Alpha Sample ID Sample ID STR14090941-01A

Carneron Park, CA 95682-8861

Client

Oly W INF

Matrix Date

07:55

Collection No. of Bottles TAT Alpha Sub 2 09/08/14 AQ

GAS-C

TPH/P_W BTXE/M C

Requested Tests VOC_W

Comments:

48hr TAT. Security seals intact, Frozen ice. Chain split into three separate work orders due to different TAT.:

Signature

Print Name HACON

Company Alpha Analytical, Inc.

Date/Time

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.

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

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. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

	Billito Information
Company:	Svare 2
ittrs;	Water 1
ddress:	3330 Councince Pt
ity, State, Zip	Compon PK
hone Number:	530676 6014 Fax: 5 8676000 5



Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Northern NV: 1250 Lamoilla Hwy., #310, Elko, NV 89801 Southern NV: 6255 McLeod Ave, Suite 24, Las Veges, NV 89120

Phone: 775-355-1044 Fax: 775-355-0406 Phone: 916-366-9089

Phone: 714-386-2901

Phone: 775-388-7043

Phone: 702-281-4848

16338

Consultant/ Client Infor Job and Purchase Order Info: Company: Job#									Report A	ttention/	Project	Manager		- lx	QC Deliverable Info:							
Company: Address: City, State,	_	Str	405		ob# ob Name: .O.#:	T	1ym	٤		Name; Email Ad Phone #:	dress:	12	100	Manager			EDD Required? Yes / No ED				ed? Yes / No	
		ed from w	which State? (circle		\checkmark			Other	Cell #;							alidation Pac	kages:	(III	or	ıv		
	W 1	7												Analy	sis Reques	ted					Re	marks
Time Sampled (HHMAM) 9755 0750 0745 0740	Data Sample (MAVDD)	Matrix (See Key Below) ACC	Lab IO Number (Fo	r Lab Use Only) >QU1-014	014	Samp W W W	Le Description IN GHA GHA EA	1	772 970 560 24	T T B Containers" (See Key Below)	X X X X X X X X X X X X X X X X X X X	大学子子	XXXXXX	YXXX MTBE								
				4					1								_	1				
		-							1						+	-		+				
ADDITIONA	L INSTRUC	TIONS:		₹2					نــــــــــــــــــــــــــــــــــــــ													
Sampled By	EN	りんし	ty and authenticity of this	sample(s). Fam aw	are that tam	pering with	or intentions	lly mislabeling	the sample I	ocation, di	ate or time	of collect	lon is con	nsidered fr	ud and ma	y be groun	ds for legal a	tion. NAC	445.0636 (c) (2).		
Relinquished	by: (signated)	ure/Affiliation	n):	Date: Q.	8-14	Time:	138	Recei	ved by: (Sign: No. (Sign: ved by: (Sign:	S Sature Affilia	tion):	2						Date:	19-	14	Time:	30
OTE: Sam	oles are disc	carded 60 da	Key: AQ - Aque			OT - Othe Hazardou				- VOA	S-Soil		O - Orbo			8 - Brass	P - Plas s applicable or		· Other			



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861 Attn: Trevor Hartwell Phone: (530) 676-6004 Fax: (530) 676-6005 Date Received: 09/09/14

Job:

Olympic

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID:	Oly W GAC 1					
Lab ID:	STR14090942-01A	TPH-P (GRO)	ND	50 μg/L	09/15/14	09/15/14
Date Sampled	09/08/14 07:50	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	09/15/14	09/15/14
		Benzene	ND	0.50 μg/L	09/15/14	09/15/14
		Toluene	ND	0.50 μg/L	09/15/14	09/15/14
		Ethylbenzene	ND	0.50 μg/L	09/15/14	09/15/14
		m,p-Xylene	ND	0.50 μg/L	09/15/14	09/15/14
		o-Xylene	ND	0.50 μg/L	09/15/14	09/15/14
Client ID:	Oly W GAC 2					
Lab ID:	STR14090942-02A	TPH-P (GRO)	ND	50 μg/L	09/15/14	09/15/14
Date Sampled	09/08/14 07:45	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	09/15/14	09/15/14
		Benzene	ND	0.50 μg/L	09/15/14	09/15/14
		Toluene	ND	0.50 μg/L	09/15/14	09/15/14
		Ethylbenzene	ND	0.50 μg/L	09/15/14	09/15/14
		m,p-Xylene	ND	0.50 μg/L	09/15/14	09/15/14
		o-Xylene	ND	0.50 μg/L	09/15/14	09/15/14

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.

*CL*SS
ACCREDITED
DOD EAP

Roger Scholl Kandy Soulm

Walter Horison

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Office 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

40 St.

9/16/14

Papart Data

Report Date



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

VOC Sample Preservation Report

Work Order: STR14090942

Job:

Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	рН	
14090942-01A 14090942-02A	Oly W GAC 1 Oly W GAC 2	Aqueous Aqueous	2 2	

9/16/14 Report Date



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

Date: 16-Sep-14	(QC S	ummar	y Repor	t			Work Order: 14090942		
Method Blank File ID: 14091504.D		Type N		est Code: EF			15B/C / SW8260 Analysis Date	B a: 09/15/2014 10:42		
Sample ID: MBLK MS09W0915B	Units : µg/L		Run ID: M	SD 09_1409	15A		Prep Date:	09/15/2014 10:42		
Analyte	Result	PQL				LCL(ME)	UCL(ME) RPDRe	efVal %RPD(Limit)	Qual	
TPH-P (GRO)	ND	50		<u>:</u>		· · · · · · · ·	<u>`</u>			
Surr: 1,2-Dichloroethane-d4	9.02		10		90	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.59		10		96	70	130			
Laboratory Control Spike		Type L	CS Te	est Code: EF	'A Met	hod SW80	15B/C / SW8260	3		
File ID: 14091503.D			Ва	atch ID: MS0	9W091	15B	Analysis Date	09/15/2014 10:14		
Sample ID: GLCS MS09W0915B	Units : µg/L		Run ID: MS	SD_09_1409	15A		Prep Date:	09/15/2014 10:14		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qual	
TPH-P (GRO)	391	50	400		98	70	130			
Surr: 1,2-Dichloroethane-d4	8.77		10		88	70	130			
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	9.68 9.72		10 10		97 97	70 70	130			
	9.12				•		130	· · · · · · · · · · · · · · · · · · ·		
Sample Matrix Spike File ID: 14091516.D	Type MS Test Code: EPA Method SW8015B/C / SW8260B Batch ID: MS09W0916B Analysis Date: 09/15/2014 16:03									
Sample ID: 14090942-01AGS	11.16. #					15B		: 09/15/2014 16:03		
	Units : µg/L			SD_09_1409			Prep Date:	09/15/2014 16:03		
Analyte	Result	PQL		SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDRe	fVal %RPD(Limit)	Qual	
TPH-P (GRO)	2230	250		0	111	54	143			
Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	44.9 48.4		50		90	70	130			
Surr: 4-Bromofluorobenzene	48.2		50 50		97 96	70 70	130 130			
Sample Matrix Spike Duplicate		Type N		est Code: EF			15B/C / SW8260		_	
File ID: 14091517.D				atch ID: MS0				: 09/15/2014 16:27		
Sample ID: 14090942-01AGSD	Units : µg/L			SD_09_1409			Prep Date:	09/15/2014 16:27		
Analyte	Result	PQL				LCL(ME)	•	fVal %RPD(Limit)	Qual	
TPH-P (GRO)	2200	250		0		54	143 22			
Surr: 1,2-Dichloroethane-d4	42.8	_50	50		86	70	130	1.2(20)		
Surr: Toluene-d8	48.8		50		98	70	130			
Surr: 4-Bromofluorobenzene	48.3		50		97	70	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

Datc: 16-Sep-14	(QC Sumn	nary Repo	rt				Work Order: 14090942		
Method Blank File ID: 14091504.D		Type MBLK	Test Code: E Batch ID: MS				ate: 09	/15/2014 10:42		
Sample ID: MBLK MS09W0915A	Units : µg/L	Run II	D: MSD_09_140	915A		Prep Date:	09	/15/2014 10:42	2	
Analyte	Result	PQL Spl	Val SpkRefVa	%REC	LCL(ME)	UCL(ME) RPD	RefVal	%RPD(Limit)	Qual	
Methyl tert-butyl ether (MTBE) Benzene	ND ND	0.5 0.5		· · · · · · · · · · · ·						
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5			~~	100				
Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	9.02		10	90	70	130				
Surr: 4-Bromofluorobenzene	10 9.59		10 10	100 96	70 70	130 130				
Laboratory Control Spike		Type LCS	Test Code: E				-			
File ID: 14091502.D			Batch ID: MS	09W091	5A	Analysis Da	ate: 09	/15/2014 09:50)	
Sample ID: LCS MS09W0915A	Units: µg/L	Run II	D: MSD_09_140			Prep Date:		/15/2014 09:50		
Analyte	Result		√Val SpkRefVa		LCL(ME)	•			Qual	
Methyl tert-butyl ether (MTBE)	9.24	0.5	10	92	63	137				
Benzene	9.16	0.5	10	92	70	130				
Toluene	8.79	0.5	10	88	80	120				
Ethylbenzene	9.5	0.5	10	95	80	120				
m,p-Xylene	8.93	0.5	10	89	65	139				
o-Xylene	8.42	0.5	10	84	70	130				
Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	8.88		10	89	70 70	130 130				
Surr: 4-Bromofluorobenzene	9.54 8.93		10 10	95 89	70 70	130				
		Type MS	Test Code: E							
Sample Matrix Spike File ID: 14091514.D		Type ING	Batch ID: MS				ate: 09	/15/2014 15:15	5	
Sample ID: 14090445-01AMS	Units : µg/L	Run I	D: MSD_09_140			Prep Date:)/15/2014 15:1 {		
Analyte	Result		kVal SpkRefVa		LCL(ME)	•			Qual	
Methyl tert-butyl ether (MTBE)	62.5	1.3		125	56	140		7.5		
Benzene	60.6	1.3		123	67	134				
Toluene	55.3	1.3		111	38	130				
Ethylbenzene	61.5	1.3	50 (123	70	130				
m,p-Xylene	57.1	1.3		114	65	139				
o-Xylene	54.2	1.3	• • • • • • • • • • • • • • • • • • • •	108	69	130				
Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8	49.5		50	99	70 70	130				
Surr: 4-Bromofluorobenzene	45 43.1		50 50	90 86	70 70	130 130				
Sample Matrix Spike Duplicate		Type MSD	Test Code: I	EDA Mot	hod SW8	260B		·		
File ID: 14091515.D		Type Misb	Batch ID: MS				ate: 09	9/15/2014 15:3	9	
Sample ID: 14090445-01AMSD	Units : µg/L	Run I	D: MSD_09_14	0915A		Prep Date:	09	9/15/2014 15:3	9	
Analyte	Result		kVal SpkRefV a		LCL(ME)	UCL(ME) RPD	RefVal	%RPD(Limit)	Qual	
Methyl tert-butyl ether (MTBE)	63.7	1.3	50	0 127	56	140	52.49	1.9(40)		
Benzene	62.3	1.3		0 125	67		30.61	2.8(21)		
Toluene	57.5	1.3		0 115	38		55.34	3.8(20)		
Ethylbenzene	63.2	1.3		0 126	70 65		61.53	2.6(20)		
m,p-Xylene	58.5 0.54	1.3		0 117 0 1.1	65 69		57.13 54.21	2.3(20) 196.0(20)	M2 R58	
o-Xylene Surr: 1,2-Dichloroethane-d4	0.54	1.3	**	0 1.1 93	70	130	J7.4 I	130.0(20)	INIT L/30	
Surr: Toluene-d8	46.4 45.8		50 50	93 92	70 70	130				
Surr: 4-Bromofluorobenzene	43.4		50	87	70	130				



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

Date: 16-Sep-14

QC Summary Report

Work Order: 14090942

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.

R58 = MS/MSD RPD exceeded the laboratory control limit.

Billing	Information	

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

EMail Address

thartwell@stratusinc.net

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

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

Phone Number

(530) 676-6004 x

WorkOrder: STR14090942

Page: 1 of 1

Report Due By: 5:00 PM On: 16-Sep-14

Client:

Stratus Environmental 3330 Cameron Park Drive

Suite 550

Cameron Park, CA 95682-8861

EDD Required: Yes

Sampled by : C. Hill Cooler Temp Samples Received

Date Printed

PO:

Client's COC #: 16338

Job: Olympic

Report Attention

Trevor Hartwell

2°C

09-Sep-14

09-Sep-14

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

									 Request	ed Tests		
Alpha Sample ID	Client Sample ID		Collection x Date				TPH/P_W	VOC_W				Sample Remarks
STR14090942-01A	Oly W GAC 1	AQ	09/08/14 07:50	4	0	5	GAS-C	BTXE/M_C				
STR14090942-02A	Oly W GAC 2	AQ	09/08/14 07:45	4	0	5	GAS-C	BTXE/M_C			<u> </u>	

Comments:

Security seals intact. Frozen ice. Chain split into three separate work orders due to different TAT.

Signature

Print Name

Company

Date/Time

Logged in by:

ACCADOR CHAWN

Alpha Analytical, Inc.

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

Company:	Billies Information	Analytical,
Attn:	14 buc	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Address:	3330 Consepar PZ	
City, State, Zip:	Cumbian PR	
Phone Number:	530 626 6004 Fex 5 76 676 LOV	4 (8)
		ronmental

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Phone: 775-355-1044 Fax: 775-355-0406

Satellite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801

Phone: 916-366-9089 Phone: 714-386-2901 Phone: 775-388-7043 16338

							110	nmental		Southern	NV: 6255 N	AcLeod Av	e, Suite 24	, Las Vega	18, NV 691	50	Ph	none:	702-281-4	848		Page #		of /	
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City, State,	Z ip:				- ,	P.O. #:	_		1		Phone #	¢:							Global ID:	etian Dani					
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Time Sampled (HHMM) 9755 9755 0745 0740	Date Sampled (MM/DD) 9,5	AID		ambar (For Lab U		014	w		WF	72 910 910 24	4	Yes X X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	XXXXXX	XXXX MTBE									21	
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ADDITION	L INSTRUC	TIONS:																							
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Relinquishe	d by: (Signa	lure/Affiliation	1):		Date:		Tim	θ:	Re	ceived by: (Sig	nature/Affil	lation):	/							Date:	17		Time:	10	
					<u> </u>															_					
				Q - Aqueous		Waste	OT - 01				V - VOA		oil Jar	O - Orb		Tedlar	B - Brass		P - Plastic		- Other				
				receipt unless of					s will be returned	to client or dis	sposed of a	ciientexp	ense. Th	e report for	tne enalys	s of the abo	ve samples	is appl	ircable only	to those i	sumpies				



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ANALYTICAL REPORT

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861

Attn: Trevor Hartwell Phone: (530) 676-6004 Fax: (530) 676-6005 Date Received: 09/09/14

Job:

Olympic

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

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID:	Oly W EFF					
Lab ID:	STR14090940-01A	TPH-P (GRO)	ND	· 50 μg/L	09/10/14	09/10/14
Date Sampled	09/08/14 07:40	Methyl tert-butyl ether (MTBE)	ND	0.50 μg/L	09/10/14	09/10/14
		Benzene	ND	0.50 μg/L	09/10/14	09/10/14
		Toluene	ND	0.50 μg/L	09/10/14	09/10/14
		Ethylbenzene	ND	0.50 μg/L	09/10/14	09/10/14
		m,p-Xylene	ND	0.50 μg/L	09/10/14	09/10/14
		o-Xylene	ND	0.50 μg/ L	09/10/14	09/10/14

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.

ACLASS
ACCREDITED
DODE AR

Roger Scholl Kandy Soulun

Walter Hinchman, Quality Assurance Officer

Loger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Leboratory Manager • • Walter Hinchman, Quality Assurance Offices 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 sample

_

Report Date



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

VOC Sample Preservation Report

Work Order: STR14090940	Job: Ol	lympic	
Alpha's Sample ID	Client's Sample	ID Matrix	рН
14090940-01A	Oly W EFF	Aqueous	2

9/10/14 Report Date



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

Date: 12-Sep-14	(QC Si	ımmary	y Repor	t			Work Orde 14090940	
Method Blank File ID: 14091006.D		Type N		est Code: El atch ID: MS(15B/C / SW8260 Analysis Dat	B e: 09/10/2014 16:10	
Sample ID: MBLK MS09W0910B	Units : µg/L		Run ID: MS	SD_09_1409	910A		Prep Date:	09/10/2014 16:10	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDR	efVal %RPD(Limit)	Qual
TPH-P (GRO)	ND	50				-			
Surr: 1,2-Dichloroethane-d4	8.92		10		89	70	130		
Surr: Toluene-d8	10.3		10	,	103	70	130		
Surr: 4-Bromofluorobenzene	9.95		10		100	70	130		
Laboratory Control Spike		Type L					15B/C / SW8260	_	
File ID: 14091005.D			Ba	atch ID: MS	09W091	0B	Analysis Dat	e: 09/10/2014 15:42	
Sample ID: GLCS MS09W0910B	Units : µg/L		Run ID: M	SD_09_140	910A		Prep Date:	09/10/2014 15:42	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDR	efVal %RPD(Limit)	Qual
TPH-P (GRO)	359	50	400		90	70	130		
Surr: 1,2-Dichloroethane-d4	9.33		10		93	70	130		
Surr. Toluene-d8	9.48		10		95	70	130		
Surr: 4-Bromofluorobenzene	9.9		10		99_	70	130		
Sample Matrix Spike		Type N	IS To	est Code: E	PA Met	hod SW80	15B/C / SW8260	В	
File ID: 14091020.D			Ba	atch ID: MS	09W091	0B	Analysis Dat	e: 09/10/2014 21:43	
Sample ID: 14090940-01AGS	Units : µg/L		Run ID: M	SD_09_140	910A		Prep Date:	09/10/2014 21:43	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDR	efVal %RPD(Limit)	Qual
TPH-P (GRO)	1710	250	2000	0	86	54	143		
Surr: 1,2-Dichloroethane-d4	40.9		50		82	70	130		
Surr: Toluene-d8	50		50		100	70	130		
Surr: 4-Bromofluorobenzene	49		50		98	70	130		
Sample Matrix Spike Duplicate		Type N	ASD To	est Code: E	PA Met	hod SW8()15B/C / SW8260	В	
File ID: 14091021.D			Ba	atch ID: MS	09W091	10B	Analysis Dat	e: 09/10/2014 22:07	
Sample ID: 14090940-01AGSD	Units : µg/L		Run ID: M	SD_09_140	910A		Prep Date:	09/10/2014 22:07	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) RPDR	efVal %RPD(Limit)	Qua
TPH-P (GRO)	2050	250	2000	0	102	54	143 17	14 17.8(23)	
Surr: 1,2-Dichloroethane-d4	41.6		50		83	70	130		
Surr: Toluene-d8	50.2		50		100	70	130		
Surr. 4-Bromofluorobenzene	48.9		50		98	70	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.



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Date: 12-Sep-14	(QC Su	mmary	Repor	t				Work Orde 14090940	
Method Blank		Type MB	LK Te	st Code: EF	A Met	hod SW82	60B			
File ID: 14091006.D			Ва	tch ID: MS0	9W091	0A	Analysis	Date:	09/10/2014 16:10	
Sample ID: MBLK MS09W0910A	Units : µg/L	R	un ID: MS	SD_09_1409	10A		Prep Da	te:	09/10/2014 16:10	
Analyte	Result	PQL				LCL(ME)	UCL(ME) RI	PDRefV	al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene m,p-Xylene	ND ND	0.5								
o-Xylene	ND ND	0.5 0.5								
Surr: 1,2-Dichloroethane-d4	8.92	0.5	10		89	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.95		10		100	70	130			
Laboratory Control Spike		Type LC:	S Te	st Code: EF	A Met	hod SW82	:60B		<u> </u>	
File ID: 14091004.D			Ва	tch ID: MS0	9W091	10A	Analysis	Date:	09/10/2014 15:18	
Sample ID: LCS MS09W0910A	Units : µg/L	R	un ID: MS	SD_09_1409	10A		Prep Da		09/10/2014 15:18	
Analyte	Result	PQL				LCL(ME)	-		/al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	7.32	0.5	10		73	63	137			
Benzene	8.51	0.5	10		85	70	130			
Toluene	8.49	0.5	10		85	80	120			
Ethylbenzene	9.22	0.5	10		92	80	120			
m,p-Xylene o-Xylene	8.46 7.9	0.5 0.5	10		85	65	139			
Surr. 1,2-Dichloroethane-d4	8.63	0.5	10 10		79 86	70 70	130 130			
Surr: Toluene-d8	9.77		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.57		10		96	70	130			
Sample Matrix Spike		Type MS	Te	est Code: Ef	A Met	hod SW82	260B			
File ID: 14091018.D		•	Ва	atch ID: MSC	9W091	IOA	Analysis	Date:	09/10/2014 20:55	
Sample ID: 14090940-01AMS	Units: µg/L	R	Run ID: MS	SD_09_1409	910A		Prep Da		09/10/2014 20:55	
Analyte	Result	PQL				LCL(ME)	UCL(ME) R	PDRef\	/al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	56.6	1.3	50	0	113	56	140			_
Benzene	54.6	1.3	50	Õ	109	67	134			
Toluene	54.7	1.3	50	0	109	38	130			
Ethylbenzene	57.5	1.3	50	0	115	70	130			
m,p-Xylene o-Xylene	53.9 51.9	1.3 1.3	50 50	0	108 104	65 69	139 130			
Surr: 1,2-Dichloroethane-d4	41.3	1.3	50	U	83	70	130			
Surr. Toluene-d8	49.5		50		99	70	130			
Surr: 4-Bromofluorobenzene	45.3		50		91	70	130			
Sample Matrix Spike Duplicate		Type MS	SD To	est Code: El	PA Met	hod SW82	260B			
File ID: 14091019.D			В	atch ID: MS()9W091	10A	Analysis	Date:	09/10/2014 21:19	
Sample ID: 14090940-01AMSD	Units : µg/L	F	Run ID: M	SD_09_140!	910A		Prep Da	rte:	09/10/2014 21:19	
Analyte	Result	PQL				LCL(ME)	UCL(ME) R	PDRef\	/al %RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	60.1	1.3	50	0	120	56	140	56.58	6.1(40)	
Benzene	58.2	1.3	50	0	116	67	134	54.64		
Toluene	58	1.3	50	0	116	38	130	54.68		
Ethylbenzene m.p. Yviene	61.3 57.5	1.3	50	0	123	70 65	130	57.52		
m,p-Xylene o-Xylene	57.5 55.1	1.3 1.3	50 50	0	115 110	69	139 130	53.91 51.93		
Surr: 1,2-Dichloroethane-d4	41	1.5	50	U	82	70	130	J1.34	0.3(20)	
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	45.1		50		90	70	130			



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

Date:	OC Common Domant	Work Order:
12-Sep-14	QC Summary Report	14090940
		2 102 02 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.

Billing Information	
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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 Due By

WorkOrder: STR14090940

Report Due By: 5:00 PM On: 10-Sep-14

CARUSH 1011

Client:

Stratus Environmental 3330 Cameron Park Drive Suite 550

Cameron Park, CA 95682-8861

Report Attention Phone Number EMail Address

Trevor Hartwell (530) 676-6004 x thartwell@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

PO:

Client's COC #: 16338

Job: Olympic

Cooler Temp
2 °C

Samples Received 09-Sep-14 Date Printed
09-Sep-14

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

						Requested Tests							
Alpha	Client	Collection	No. of	Bottles	3	TPH/P_W	AOC_M						
Sample ID	Sample ID	Matrix Date	Alpha	Sub	TAT						<u> </u>		Sample Remarks
STR14090940-01A	Oly W EFF	AQ 09/08/14 07:40	4	Ó	1	GAS-C	BTXE/M_C						

Comments:	24hr TAT. Security seals intact. Frozen iee. Chain split into three separate	ate work orders due to different TAT.:		
	Signature	Print Name	Company	Date/Time
Logged in by		Milmana CHACUM	Alpha Analytical, Inc.	9/09/14 104

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

Company:	Billien Information	Analytical
Attn:	Debuc	A 30
Address:	3330 Compace PZ	
City, State, Zip.	Composit PR	
Phone Number:	530676 6014 Fax: 5 86760015	9
		ronmental

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Satelfite Service Centers:

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Southern CA: 1007 E. Dominguez St., Suite O. Carson, CA 90748 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801

Phone. 775-355-1044

Phone: 714-386-2901

Phone: 775-388-7043

Fax: 775-355-0406 Phone: 916-366-9089 16338

						ron	mental		Southern N	IV: 6255 M	IcLead Ave	Suite 24.	Las Vega	ss. NV 891	20	P	hone: 7	02-281-4848	3	۲	age#	-	01 /
														8. g.a. , X				2					
Company: Address:	Co	Consultant Clight Infor			Job and Purchase Order Info: Job # Job Name:				Report Attention/Project Manager: Name Email Address:									QC Deliverable Info: EDD Required? Yes / No EDF Required? Yes / No					
City, State,	Zip:				.O.#:		/ /			Phone # Cell #:	:							ilobal ID: ata Validatio	Darko	nae:	BI	or	ſV
Samples	Collecte	d from w	hich State? (circle one)	AR C	A KS	NV O	R WA	DOD Site	Other	Cell W.								ola vandalk	ATT BURB		- 		
(3)	1				Ī				1	-	+			Anah	als Reque	sted			T		-	Kei	marks
Time Sampled (HHMM)	Date Sampled (MM/DD)	Matro: (See Key Below) ACC	Lab ID Number (For Lab	Use Only)	014	Samp	le Description	, E	TAT 72	#Contemers" (See Key Below)	Yes No	* 1/2/x	x SYEX	x mTBE									
0150	\	(ON	W	GAL	1	275	4	1	7	1	X			1						
0745	1)			04	W	GAR	2	Stid	4	X	X	Х	X									
0746	9,8	AQ.	STR 140940	-OIA	OLY	W	126	75	24	И	JL	J	1	K									
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f (field sem	nler) attest t	o the validi	ty and authenticity of this sam	plefe) I am ew	are that tam	aerina with	or Intentional	by mislabeling	the sample i	ocation d	late or time	of collec	tion is co	nsidered f	raud and m	av be grou	nds for k	ngal action.	NAC 44	45.0636 (c	:) (2).		
Sampled B	" CN	リルレ				*******					_												
ROUGH	d by: (signal	Affiliation	Status	Date. Q	8-14	Time:	130	Recei	med by: (Sign	ature/Alfilia	ation):	-						Day		14		rime:	30
Relinquishe	d by: (Signal	re/Affiliation	n):	Date	<u> </u>	Time:	, 0,	Recei	Valor (Sign	of Grad Affilia	ation):					-		Dat	·	a_ 10	,	10Z	9
Relinquishe	Relinquished by: (Signature/Affiliation): Date:					Time:		Recei	Ved by (Sign	alure/Affiji	ligh)							Dat		1-10	-	Time:	
			*Key: AQ - Aqueous	WA - W		OT - Othe				- VOA	S-Soi		O - Orbi		Tedlar	B - Brass		- Plastic		Other			
			lys after sample receipt unless o OC. The liability of the laboratory					os relumed to	client or disp	osed of at	caent expe	136 The	report for	ıne analysi	s or the abo	ive sample:	з з аррис	aute only to	mose 58	mtpres			

APPENDIX D

GEOTRACKER ELECTRONIC SUBMITTAL CONFIRMATIONS

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

Report Title:

3Q14 QMR 7-21-14 AINF-AEFF

Report Type:

Monitoring Report - Quarterly

Facility Global ID:

T0600102256

Facility Name:

OLYMPIC STATION

File Name:

EDF_OlympicStation_88741.ZIP

Organization Name:

Stratus Environmental, Inc.

Username:

STRATUS NOCAL

IP Address:

50.192.223.97

Submittal Date/Time:

10/1/2014 3:20:47 PM

Confirmation Number:

4947054028

VIEW QC REPORT

VIEW DETECTIONS REPORT

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

Report Title: 3Q14 QMR 8-4-14 AINF-AEFF

Report Type: Monitoring Report - Quarterly Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION

File Name: EDF_OlympicStation_88839.ZIP

Organization Name: Stratus Environmental, Inc.

<u>Username:</u> STRATUS NOCAL

<u>IP Address:</u> 50.192.223.97

<u>Submittal Date/Time:</u> 10/1/2014 3:22:48 PM

Confirmation Number: 3969682812

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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

Report Title: 3Q14 QMR 9-8-14 AINF-AEFF

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION

File Name: EDF_OlympicStation_89089.ZIP
Organization Name: Stratus Environmental, Inc.

Username: STRATUS NOCAL

IP Address: 50.192.223.97

Submittal Date/Time: 10/1/2014 3:24:54 PM

Confirmation Number: 8320472061

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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

Report Title: 3Q14 QMR 7-21-14 WINF

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION
File Name: 14072144 EDF.zip

Organization Name: Stratus Environmental, Inc.

<u>Username:</u> STRATUS NOCAL

<u>IP Address:</u> 50.192.223.97

<u>Submittal Date/Time:</u> 10/1/2014 10:26:40 AM

Confirmation Number: 4036842107

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GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type: EDF

Report Title: 3Q14 QMR 7-21-14 WGAC1-WGAC2

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION
File Name: 14072240_EDF.zip

Organization Name: Stratus Environmental, Inc.

<u>Username:</u> STRATUS NOCAL <u>IP Address:</u> 50.192.223.97

Submittal Date/Time: 10/1/2014 11:33:39 AM

Confirmation Number: 8833808243

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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

Report Title: 3Q14 QMR 7-21-14 WEFF

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION
File Name: 14072145 EDF.zip

Organization Name: Stratus Environmental, Inc.

<u>Username:</u> STRATUS NOCAL

IP Address: 50.192.223.97

Submittal Date/Time: 10/1/2014 11:34:31 AM

Confirmation Number: 3911367833

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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

Report Title: 3Q14 QMR 7-29-14 WEFF

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION 14072940 EDF.zip

Organization Name: Stratus Environmental, Inc.

<u>Username:</u> STRATUS NOCAL

<u>IP Address:</u> 50.192.223.97

Submittal Date/Time: 10/1/2014 11:35:18 AM

Confirmation Number: 9574149429

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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

Report Title: 3Q14 QMR 8-18-14 WINF

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION
File Name: 14081941 EDF.zip

Organization Name: Stratus Environmental, Inc.

<u>Username:</u> STRATUS NOCAL

<u>IP Address:</u> 50.192.223.97

Submittal Date/Time: 10/1/2014 11:36:07 AM

Confirmation Number: 4181312322

VIEW QC REPORT

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GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type: EDF

Report Title: 3Q14 QMR 8-18-14 WGAC1-GAC2
Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION
File Name: 14081942_EDF.zip

Organization Name: Stratus Environmental, Inc.

<u>Username:</u> STRATUS NOCAL <u>IP Address:</u> 50.192.223.97

Submittal Date/Time: 10/1/2014 11:37:16 AM

Confirmation Number: 3536156833

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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

Report Title: **3Q14 QMR 8-18-14 WEFF**

Report Type: **Monitoring Report - Quarterly**

Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION File Name: 14081940_EDF.zip

Organization Name: Stratus Environmental, Inc.

STRATUS NOCAL Username:

50.192.223.97 **IP Address:**

10/1/2014 11:39:37 AM **Submittal Date/Time:**

Confirmation Number: 7046409368

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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

Report Title: 3Q14 QMR 9-8-14 WINF

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION
File Name: 14090941_EDF.zip

Organization Name: Stratus Environmental, Inc.

<u>Username:</u> STRATUS NOCAL

<u>IP Address:</u> 50.192.223.97

Submittal Date/Time: 10/1/2014 12:07:43 PM

Confirmation Number: 5879859268

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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

Report Title: 3Q14 QMR 9-8-14 WGAC1-WGAC2

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600102256

Facility Name: OLYMPIC STATION
File Name: 14090942_EDF.zip

Organization Name: Stratus Environmental, Inc.

Username: STRATUS NOCAL IP Address: 50.192.223.97

Submittal Date/Time: 10/1/2014 12:11:07 PM

Confirmation Number: 7508401095

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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

Report Title:

3Q14 QMR 9-8-14 WEFF

Report Type:

Monitoring Report - Quarterly

Facility Global ID:

T0600102256

Facility Name:

OLYMPIC STATION

File Name:

14090940_EDF.zip

Organization Name:

Stratus Environmental, Inc.

<u>Username:</u>

STRATUS NOCAL

IP Address:

50,192,223,97

Submittal Date/Time:

10/1/2014 12:12:31 PM

Confirmation Number:

5451875805

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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

Report Title:

Rem. Status Report & Results of Limited Groundwater

Sampling Event

Report Type:

Monitoring Report - Quarterly

Facility Global ID:

T0600102256

Facility Name:

OLYMPIC STATION

File Name:

14092241_EDF.zip

Organization Name:

Stratus Environmental, Inc.

<u>Username:</u>

STRATUS NOCAL

IP Address:

50.192.223.97

Submittal

Date/Time:

10/6/2014 12:18:38 PM

Confirmation

Number:

3644690811

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