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

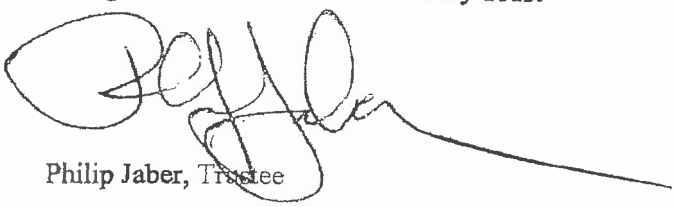
Mr. Mark Detterman
Alameda County Environmental Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

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, Trustee

STRATUS
ENVIRONMENTAL, INC.

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

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.

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

Deborah Barr, P.E.
Project Engineer

Scott G. Bittinger, P.G.
Project Geologist

Attachment: Remediation Status Report and Results of Limited Groundwater Sampling Event, Third Quarter 2014

cc: Mr. Philip Jaber

October 2, 2014

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*.

2. 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):

1. 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.

2. 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:	No
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
Groundwater Gradient:	Not evaluated this quarter

DPE SYSTEM QUARTERLY OPERATION AND PERFORMANCE:

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/m^3) (9/8/14)
Influent Air: Benzene End of Period (lab):	0.45 mg/m^3 (9/8/14)
Influent Air: MTBE End of Period (lab):	0.80 mg/m^3 (9/8/14)
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 (lab):	<50 µg/L (9/8/14)
Influent Groundwater: Benzene End of Period (lab):	0.89 µg/L (9/8/14)
Influent Groundwater: MTBE End of Period (lab):	12 µg/L (9/8/14)
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 (µg/L) and 3,400 µg/L, respectively, in the MW-6A sample, and 18,000 µg/L and 1,900 µg/L, respectively, in the MW-5A sample. MTBE was also detected in the MW-6A sample (45 µg/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/m^3), 1.0 mg/m^3, and 1.8 mg/m^3, 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/m^3, 0.45 mg/m^3, and 0.80 mg/m^3, 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 -

DPE Remediation Event (Petroleum Hydrocarbons and MTBE)

- Table 8 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 I.D.	Date	Boring Depth (feet)	Boring Diameter (inches)	Well Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Drilling Method	Consultant
Groundwater Monitoring 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 Wells								
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 Wells								
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

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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
MW-1	10/06/99	8.35	15.00	6.65	--	--	84**	3,900*	<25	<25	<25	<25	3,500	--	--	--	--	--	--	--
	01/13/00	7.90		7.10	--	--	<50	<1,300	18	<13	<13	<13	1,700	--	--	--	--	--	--	--
	04/12/00	7.08		7.92	--	--	56***	<1,000	66	<10	<10	<10	1,600	--	--	--	--	--	--	--
	07/19/00	7.66		7.34	--	--	52**	<1,000	<10	<10	<10	<10	1,200	--	--	--	--	--	--	--
	10/25/00	7.91		7.09	--	--	76***	4,100*	120	<25	<25	<25	6,100	--	--	--	--	--	--	--
	02/16/07	6.32		8.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	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
	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
	11/01/07	7.71		8.00	--	--	<50	<50	<12	<12	<12	<12	460	<12	<12	<12	<120	<1,200	<12	<12
	02/01/08	5.71		10.00	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	110	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5
	05/02/08	7.52		8.19	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	240	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0
	08/01/08	8.02		7.69	--	--	<50	<50	<10	<10	<10	<10	500	<10	<10	<10	<40	<1,000	<10	<10
	11/04/08	7.28		8.43	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	260	<5.0	<5.0	<5.0	26	<500	<5.0	<5.0
	08/11/09	8.08		7.63	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	270	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0
	02/03/10	6.14		9.57	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--
	05/18/10	7.09		8.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--
	09/29/11	7.83		10.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/11	7.03		11.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/09/11	7.55		11.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/11	7.81		10.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/12	6.45		12.15	--	--	--	55	<0.50	<0.50	<0.50	<0.50	71	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--

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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (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
	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--

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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
MW-3	10/06/99	7.90	14.41	6.51	--	--	300**	3,900	900	89	160	560	790	--	--	--	--	--	--	--
	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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (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	--	--	--	--	--	--	--
	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	7.66	18.05	10.39	--	--	--	43,000	3,300	<50[2]	2,000	3,100	77	--	--	--	--	--	--	--
	09/19/14	8.80		9.25				28,000	3,400	19	2,000	1,900	45	--	--	--	--	--	--	--
MW-6B	06/19/14	7.32	17.69	10.37	--	--	--	86	<0.50	<0.50	<0.50	<0.50	82	--	--	--	--	--	--	--

TABLE 2
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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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
EX-1	06/03/11	6.96	18.14	11.18	--	--	--	76	8.3	<0.50	<0.50	0.99	37	--	--	--	--	--	--	--
	08/02/11	7.20		10.94	--	--	--	,420	37	0.65	3.5	2.9	32	--	--	--	--	--	--	--
	09/29/11	7.53		10.61	--	--	--	150	13	<0.50	3.2	1.1	23	<1.0	1.2	<1.0	<10	--	--	<1.0
	10/12/11	6.63		11.51	--	--	--	180	23	0.51	2.8	0.97	27	<1.0	1.0	<1.0	<10	--	--	<1.0
	11/09/11	7.28		10.86	--	--	--	<50	4.3	<0.50	<0.50	<0.50	34	<1.0	<1.0	<1.0	<10	--	--	<1.0
	12/12/11	7.50		10.64	--	--	--	520	32	1.3	13	5.58	20	--	--	--	--	--	--	--
	03/15/12	6.19		11.95	--	--	--	<50	2.6	<0.50	<0.50	<0.50	8.4	--	--	--	--	--	--	--
	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 Covered by Car - No Sample Collected															
	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	--	--	--	--	--	--	--

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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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)

Legend/Key:

ft msl = feet above mean sea level
µg/L = micrograms per liter
NM = Not measured
TPH - mo = total petroleum hydrocarbons as motor oil
TPHd = total petroleum hydrocarbons as diesel
GRO = gasoline range organics C6-C12
MTBE - methyl tertiary butyl ether
DIPE = di isopropyl ether
ETBE = ethyl tertiary butyl ether
TAME = tert amyl methyl ether
TBA = tert butyl ether
EDB = 1,2-dibromoethane
1,2-DCA = 1,2-dichloroethane

Analytical Methods:
GRO analyzed by EPA Method SW8015B/SW8260B, all other analytes analyzed by SW8260B.

Analytical methods prior to February 2011, are available in various reports on the Alameda County Environmental Health Department files.

* = Hydrocarbon reported in the gasoline range does not match the gasoline standard.
** = Hydrocarbon reported is in the early diesel range and does not match the diesel standard.
*** = Hydrocarbon reported does not match the pattern of the diesel standard.
-- = No sample collected

[1] Weakly modified or unmodified gasoline is significant.
[2] = Reporting limits were increased due to high concentrations of target analytes.
[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.

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

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.

TABLE 3
OPERATIONAL UPTIME AND FLOW SUMMARY
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date & Time	Notes	Hour Meter Reading	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	pH		PID	
														Inf	Eff	Sys Inf	Eff
			"Hg	ft^2	°F	fpm	acfm	°F	°F	ft^2	°F	fpm	acfm	pH	°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	--	--	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	--	--	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

Legend / Key:

Vac = Vacuum
"Hg = inches mercury
ft^2 = square feet
Temp = temperature
°F = Fahrenheit
Inf = Influent
-- = not applicable/ not measured
fpm = feet per minute
acfm = actual cubic feet per minute
ppmv = parts per million by volume
PID = Photoionization Detector
Sys Inf = System Influent (includes dilution air)
Eff = Effluent

Sample Calculation:

air flow = area of pipe (0.0491 ft^2) × air velocity (fpm) = flowrate (acfm)

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

Date & Time	Notes	Induced Vacuum ("WC) &/or Depth to Water (feet bgs)											
		MW-1		MW-2		MW-3		MW-4		MW-5A		MW-6A	
		"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:

1 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).
2 System modified extracting from wells EX-2 through EX-6.
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).

TABLE 5
SVE COMPONENT - ANALYTICAL RESULTS AND FLOW RATES
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date	Notes	Sample Time	Flowrate * (acfm)	Flowrate * (scfm)	Influent Temp. (°F)	Vacuum "Hg	Sample Location	Lab Sample Number	Analyses (mg/m^3) GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
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**
							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**
							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	89089-01	**410**	**0.45**	<0.20	<0.25	<0.20	**0.80**
							A EFF	89089-02	<20	<0.20	<0.20	<0.25	<0.20	<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/m^3 = milligrams per cubic meter
* Flowrate used based on most representative field data at time of sampling.

Laboratory Analytical Methods and Facility:

GRO analyzed using EPA Method 8260B
BTEX and MTBE analyzed using EPA Method 8260B
Kiff Analytical LLC (ELAP #08263CA)

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	Notes	Influent Sample Time	Hour Meter Reading[1]	Sys. Influent Flowrate (scfm)	Effluent Flowrate[2] (scfm)	Sys. Influent Conc. (mg/m^3)			Effluent Conc. (mg/m^3)			Extraction Rate from Wells (lbs/day)[3]			Emissions Rate to Atmosphere (lbs/day)			Destruction Removal Efficiency (%)	Cumulative GRO Removal (lbs)	
						GRO	Benzene	MTBE	GRO	Benzene	MTBE	GRO	Benzene	MTBE	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/m^3 = milligrams per cubic meter

[1] 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.

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

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

Sample Calculations:

Extraction Rate from Wells (lbs/day) = 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 m^3/35.314ft^3)

Destruction Removal Efficiency, % = $\frac{\text{(Extraction Rate - Emission Rate)}}{\text{Extraction Rate}} \times 100$

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 Time	Sample Location	Laboratory Sample ID	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
					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
		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

Date	Notes	Sample Time	Sample Location	Laboratory Sample ID	Mercury µg/L	Cyanide µg/L	Cr µg/L	Ni µg/L	Cu µg/L	Zn µg/L	As µg/L	Se µg/L	Ag µg/L	Cd µg/L	Pb µg/L	Phenols 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

µg/L = micrograms per liter

-- = Not analyzed

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. (Califmia #2019; NELAC #01154CA)

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

Date	Notes	Sample Time	Hour Meter Reading[1]	Sewer Discharge Data				Analytical Results Influent			Mass Removed This Period[b]			Cumulative Mass Removed		
				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 Test								
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 / Key:

GRO = Gasoline Range Organics C4-C13
MTBE = Methyl tertiary butyl ether
µg/L = micrograms per liter
gpm = gallons per minute
lbs = pounds
-- = data not collected/not calculated

Analytical Methods /Laboratory:

GRO analyzed using EPA Method SW8015B/SW8260B
Benzene and MTBE analyzed using EPA Method SW8260B
Alpha Analytical, Inc. (ELAP # 2019)

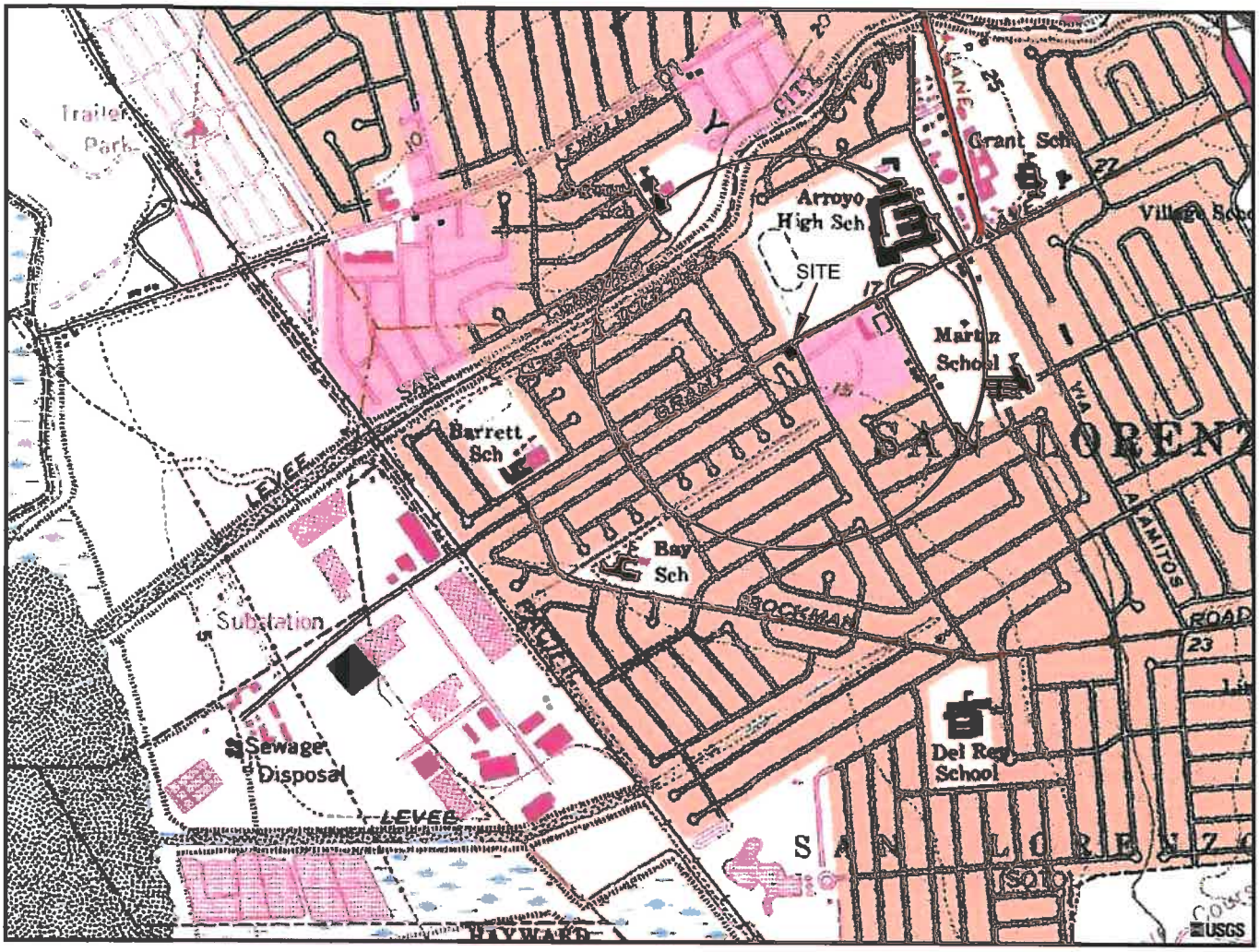
[a] Not representative of actual flow rate, calculation affected by system down time.

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

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

Notes:

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



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

QUADRANGLE LOCATION

0 1800 FT

APPROXIMATE SCALE

STRATUS
ENVIRONMENTAL, INC.

FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

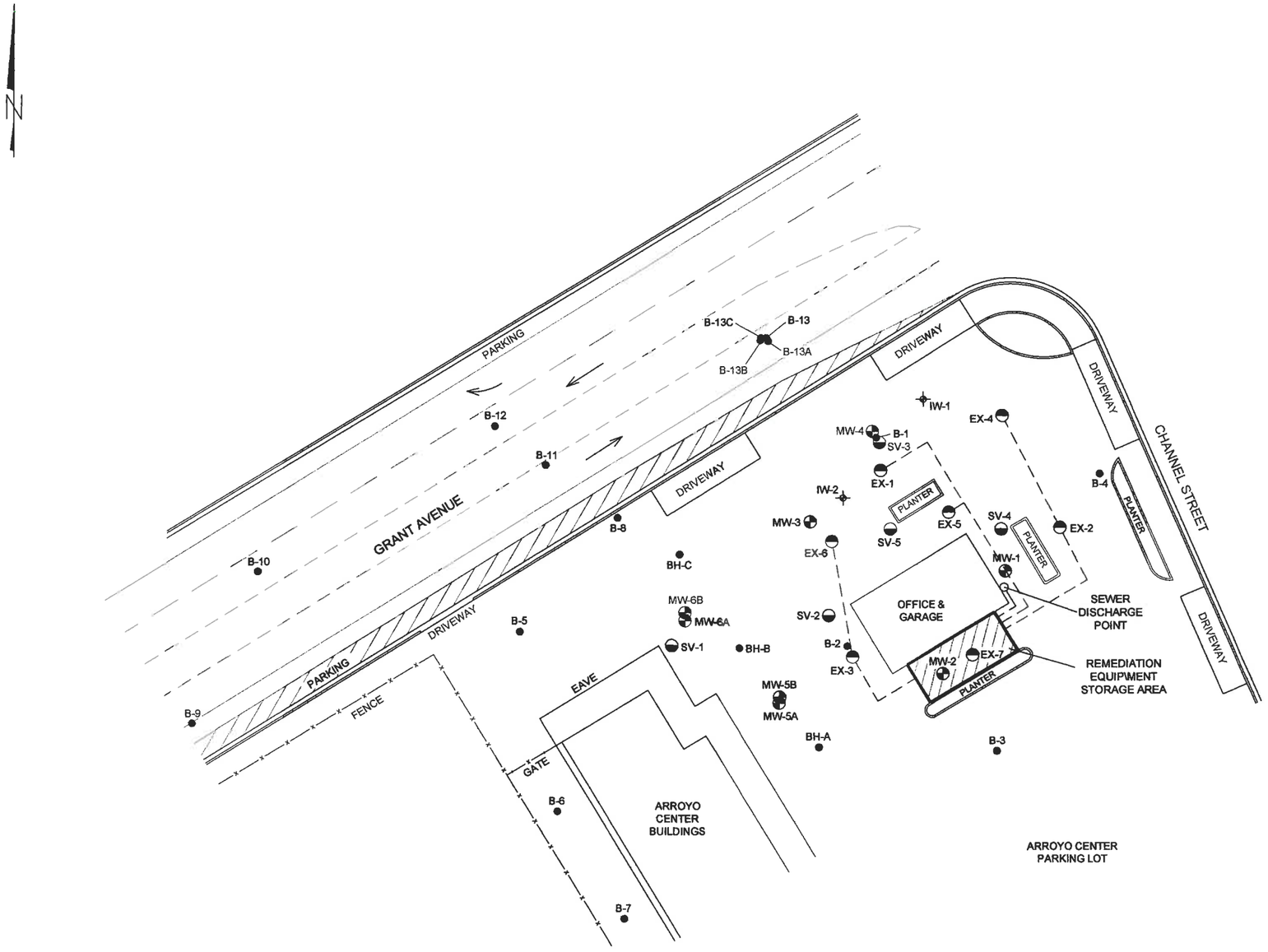
SITE LOCATION MAP

FIGURE
1

PROJECT NO.
2115-1436-01

LEGEND

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

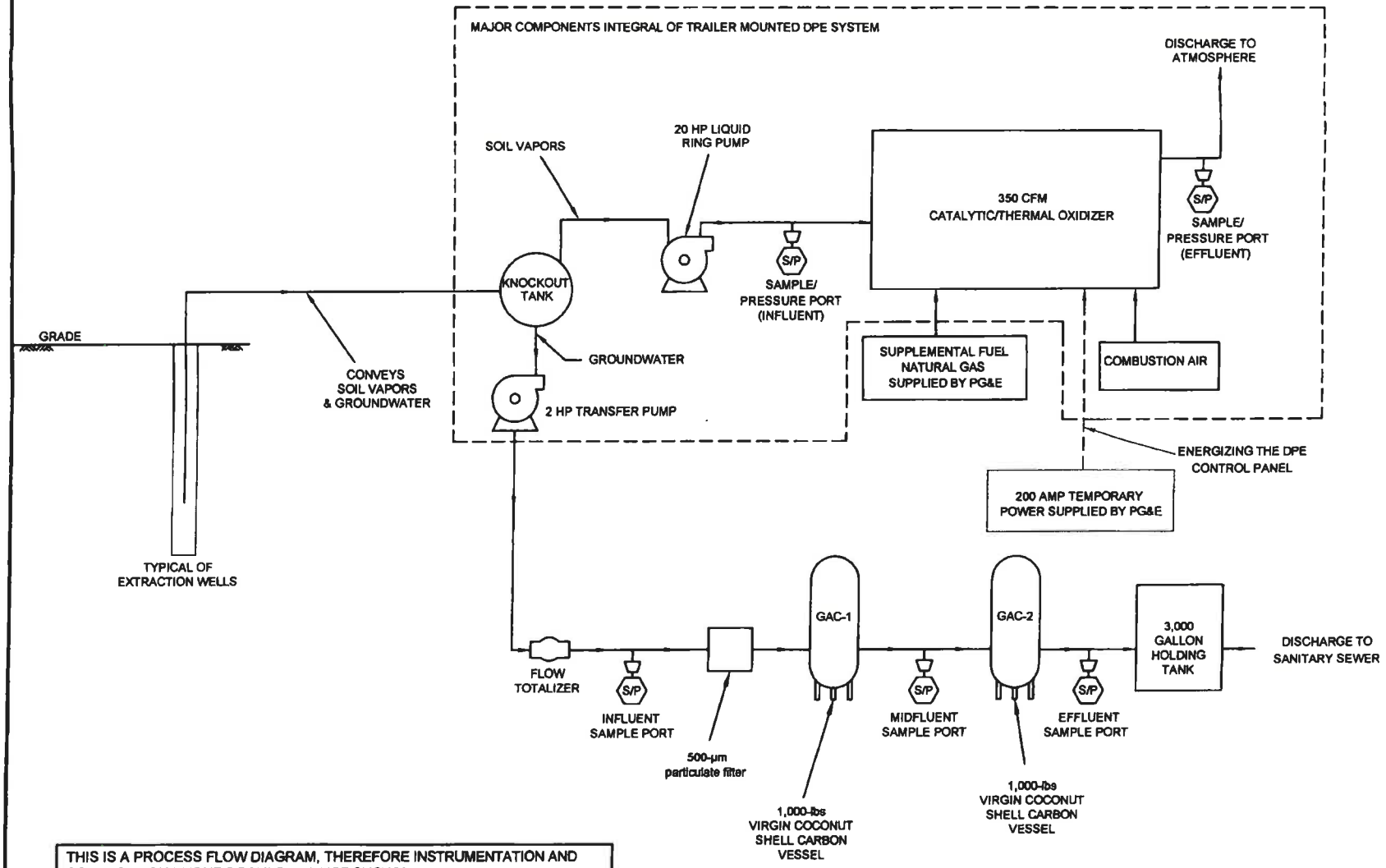
0 40 FT
SCALE

FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

SITE PLAN

FIGURE
2

PROJECT NO.
2115-1436-01



THIS IS A PROCESS FLOW DIAGRAM, THEREFORE INSTRUMENTATION AND CONTROL EQUIPMENT DETAILS ARE NOT SHOWN.
INSTRUMENT FUNCTIONS AND INTERACTIONS ARE ALSO NOT SHOWN.
EQUIPMENT SIZES ARE NOT PROPORTIONAL AND ARE NOT INDICATIVE OF FINAL SIZES.

DUAL PHASE EXTRACTION SYSTEM
NOT TO SCALE

STRATUS ENVIRONMENTAL, INC.

FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

PROCESS FLOW DIAGRAM

FIGURE
3

PROJECT NO.
2153-14930-011

APPENDIX A

FIELD DATA SHEETS

STRATUS ENVIRONMENTAL, INC.

Site Address 1436 Grant Ave
City San Lorenzo
Sampled by:
Signature CHH

Site Number Olympic station
Project Number
Project PM Scott
DATE 9-19-14

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
MW5A	0500		8.61	9.61	1.0	2	.5	.5	.5		X			8.75	5A	0525	
MW6A	0518		8.80	9.85	1.5	2	.5	.5	.5		X			8.97	6A	0537	

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

Please refer to groundwater sampling field procedures
pH/Conductivity/temperature Meter - Oakton Model PC-10
DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE
pH 9/21/14
Conductivity
DO

T:\Forms

ORIGINAL

STRATUS ENVIRONMENTAL, INC.

Site Address 1436 Grant
City San Leandro
Sampled By:
Signature [illegible]

Site Number Olympic
Project Number
Project PM
DATE 9/9/14

Well ID MW 5A			.5	
Purge start time			Odor (Y) N	
	Temp C	pH	cond	gallons
time 0510	21.0	7.93	668	Ø
time 0512	21.4	7.80	667	.5
time				
time				
purge stop time 1.11 DD			ORP 376	

Well ID MW 6A			.5	
Purge start time			Odor (Y) N	
	Temp C	pH	cond	gallons
time 0520	22.3	7.49	655	Ø
time 0522	22.9	7.46	663	1.0
time				
time				
purge stop time 1.65 DD			ORP 354	

Well ID				
Purge start time			Odor Y N	
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor Y N	
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor Y N	
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor Y N	
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor Y N	
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor Y N	
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Date: 7-21-14
Onsite Time: 0600
Offsite Time: 0930

Technician: CHILC.
Project Engineer: [illegible]
Weather Conditions: Clouds
Ambient Temperature: 62

System Information

System Status Upon Arrival: Operational ☐ Non-Operational ☒
System Status Upon Departure: Operational ☐ Non-Operational ☒ Wait For Samples
Hour Meter Reading: 3478.1
Totalizer Reading on DPE Unit: 60440 start / 61480 stop
Chart Recorder Paper Replaced ☐ Yes ☒ No
% Dilution Valve Open: X
Combustion Chamber Operating Temperature: 1452
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F): 680/26/2"
pH Meter Calibration 7-19-14

Field Measurements

Parameter	Influent (Total)	System-Influent	Effluent	Comments
Differential Pressure, "wc				
Air Velocity, FPM		2000		
Pipe Diameter, inches		3		
Air Flow Rate, cfm				
Applied Vacuum, "WC/"Hg	16"Hg			
Temperature, deg F		95	141	
PID Readings, ppmv		310	1.6	

Other Readings/Measurements

Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	0				MW-1	0	7.80
EX-2	100			13	MW-2	0	7.38
EX-3				10	MW-3	0	7.45
EX-4				10	MW-4	0	7.40
EX-5				13	MW-5A	0	7.48
EX-6				10	MW-6A	0	7.60
EX-7				8			

	pH	Temp	Cond
INF	7.69	18.4	486
EFF	7.60	19.6	512

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF 1024397-06	7-21-14 0730	W INF	7/21/14 0745
A EFF 1024397-05	" 0720	W GAC1	0754
		W GAC2	0747
		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) 276-4700
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	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
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.

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Date: 7-24-14
Onsite Time: 0900
Offsite Time: 0500

Technician: CHILL
Project Engineer: Debbie
Weather Conditions: Cloudy
Ambient Temperature: 60

System Information

System Status Upon Arrival: Operational ☐ Non-Operational ☒ Restart Full week
System Status Upon Departure: Operational ☒ Non-Operational ☐
Hour Meter Reading: 3480
Totalizer Reading on DPE Unit: 61480 start
Chart Recorder Paper Replaced ☐ Yes ☒ No
% Dilution Valve Open: yes
Combustion Chamber Operating Temperature: 1460
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F): 800/75°F/2"
pH Meter Calibration yes

Field Measurements

Parameter	Influent (Total)	System-Influent	Effluent	Comments
Differential Pressure, "wc				
Air Velocity, FPM		2000		
Pipe Diameter, inches		3		
Air Flow Rate, cfm				
Applied Vacuum, "WC/"Hg	19"Hg			
Temperature, deg F		95	1410	
PID Readings, ppmv		350	2.1	

Other Readings/Measurements

Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	0				MW-1		
EX-2	100			10	MW-2	-.10	8.61
EX-3	100			10	MW-3	-1.00	9.32
EX-4	100			10	MW-4	-.52	7.86
EX-5	100			13	MW-5A	-.65	7.70
EX-6	100			10	MW-6A	-.50	7.73
EX-7	0			5			

9 GPM - From wells Cycling
14 GPM To Sewer Cycling

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF		W INF	
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
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	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
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.

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Date: 7-29-14
Onsite Time: 0530
Offsite Time: 0615

Technician: CHILL
Project Engineer: Debbie
Weather Conditions: Clear
Ambient Temperature: 60

System Information

System Status Upon Arrival: Operational [X] Non-Operational [ ]
System Status Upon Departure: Operational [ ] Non-Operational [X] Turn off unit for LAB
Hour Meter Reading: 3599.7

Totalizer Reading on DPE Unit: 110120
Combustion Chamber Operating Temperature: 1465

Chart Recorder Paper Replaced: [ ] Yes [X] No
% Dilution Valve Open: Yes
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F): 720/76°/2"
pH Meter Calibration 7.25.14

Field Measurements

Parameter	Influent (Total)	System-Influent	Effluent	Comments
Differential Pressure, "wc				
Air Velocity, FPM		2260		
Pipe Diameter, inches		3		
Air Flow Rate, cfm				
Applied Vacuum, "WC/"Hg	16"Hg			
Temperature, deg F		90	1425	
PID Readings, ppmv		310	1.1	

Other Readings/Measurements

Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	0				MW-1	-.01	9.10
EX-2	100				MW-2	-.14	8.98
EX-3	|				MW-3	-2.35	9.62
EX-4	|				MW-4	-.75	8.74
EX-5	|				MW-5A	-.75	8.80
EX-6	100				MW-6A	-.57	8.45
EX-7	0						

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF		W INF	
A EFF		W GAC1	
		W GAC2	
		W EFF	7/29/14 0955

pH Temp Cond
EFF 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	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
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.

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Date: 8/4/14
Onsite Time: 0710
Offsite Time: 0800

Technician: CHILL
Project Engineer: Dubbye
Weather Conditions: Clouds
Ambient Temperature: 60

System Information

System Status Upon Arrival: Operational ☐ Non-Operational ☑ Restart

System Status Upon Departure: Operational ☒ Non-Operational ☐

Hour Meter Reading: 3600.4

Totalizer Reading on DPE Unit: 110360

Chart Recorder Paper Replaced ☐ Yes ☒ No

% Dilution Valve Open: yes

Combustion Chamber Operating Temperature: 1493

If open, dilution air flowrate, (fpm/cfm) and Temp (deg F): 840/69°/2"

pH Meter Calibration

Field Measurements

Parameter	Influent (Total)	System-Influent	Effluent	Comments
Differential Pressure, "wc				
Air Velocity, FPM		2000		
Pipe Diameter, inches		3		
Air Flow Rate, cfm				
Applied Vacuum, "WC/"Hg	15"Hg			
Temperature, deg F		85	1430	
PID Readings, ppmv		300	1.2	

Other Readings/Measurements

Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	0				MW-1	CAP	
EX-2	100				MW-2	-.30	8.44
EX-3	100				MW-3	-1.37	8.83
EX-4	100				MW-4	-.42	7.73
EX-5	100				MW-5A	-.41	8.25
EX-6	100				MW-6A	-.39	8.21
EX-7	100			5			

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF 1024397-20	8/4/14 0740	W INF	NO
A EFF 1024397-01	" 0736	W GAC1	Sample
		W GAC2	
		W EFF	Just Sampled 7-29-14

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	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
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.

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Date: 8-18-14
Onsite Time: 0630
Offsite Time: 0745

Technician: CH/LC
Project Engineer: DeBoni
Weather Conditions: Cloudy
Ambient Temperature: 52

System Information

System Status Upon Arrival: Operational ☐ Non-Operational ☒ High water \ Foul Bladder pump
System Status Upon Departure: Operational ☒ Non-Operational ☐
Hour Meter Reading: 3862

Totalizer Reading on DPE Unit: 196310
Combustion Chamber Operating Temperature: 1475

Chart Recorder Paper Replaced: ☐ Yes ☒ No
% Dilution Valve Open: 0
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):
pH Meter Calibration 8-15-14

Field Measurements

Parameter	Influent (Total)	System-Influent	Effluent	Comments
Differential Pressure, "wc				
Air Velocity, FPM		2350		
Pipe Diameter, inches		3		
Air Flow Rate, cfm				
Applied Vacuum, "WC/"Hg	13"Hg			
Temperature, deg F		90	1426	
PID Readings, ppmv		110	2.3	

Other Readings/Measurements

Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	0				MW-1	CAIC	
EX-2	100			10	MW-2	-.55	8.47
EX-3	100			10	MW-3	-.04	8.95
EX-4	100			10	MW-4	-.30	8.03
EX-5	100			13	MW-5A	-.36	8.50
EX-6	100			10	MW-6A	-.32	8.52
EX-7	100			5			

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information					
Sample ID	Date & Time	Sample ID	PH	Date & Time	
A SYS INF		W INF	7.87	8814	0715
A EFF		W GAC1			0710
		W GAC2			0705
		W EFF	7.89		0700

14 GPM To Sewer

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
Clean Float Tube + Floats Restart System

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	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
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.

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

Date: 9-8-14
Onsite Time: 0730
Offsite Time: 0830

Technician: CHILC
Project Engineer: DeBlanc
Weather Conditions: Cloudy
Ambient Temperature: 60

System Information

System Status Upon Arrival: Operational ☒ Non-Operational ☐
System Status Upon Departure: Operational ☒ Non-Operational ☐
Hour Meter Reading: 4247

Totalizer Reading on DPE Unit: 305370
Combustion Chamber Operating Temperature: 1463

Chart Recorder Paper Replaced ☐ Yes ☒ No
% Dilution Valve Open: 0
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):
pH Meter Calibration 9-5-15

Field Measurements

Parameter	Influent (Total)	System-Influent	Effluent	Comments
Differential Pressure, "wc				
Air Velocity, FPM		2600		
Pipe Diameter, inches		3		
Air Flow Rate, cfm				
Applied Vacuum, "WC/"Hg	12"Hg			
Temperature, deg F		100	1422	
PID Readings, ppmv		90	2.1	

Other Readings/Measurements

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	CAP	
EX-5	100				MW-5A	-.40	9.53
EX-6	100				MW-6A	-.34	8.69
EX-7	100						

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF 024524-02	9/14 0910	W INF	9/14 0755
A EFF 024524-01	" 0805	W GAC1	0750
		W GAC2	0745
PH		W EFF	0740
INF 7.81			
EFF 7.87			

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	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
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.

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Date: 9/9/14
Onsite Time: 0500
Offsite Time: 0615

Technician: CHILL
Project Engineer: Debbie
Weather Conditions: Clear
Ambient Temperature: 50

System Information

System Status Upon Arrival: Operational ☒ Non-Operational ☐
System Status Upon Departure: Operational ☒ Non-Operational ☐
Hour Meter Reading: 4509

Totalizer Reading on DPE Unit: 374710
Combustion Chamber Operating Temperature: 1464

Chart Recorder Paper Replaced ☐ Yes ☒ No
% Dilution Valve Open: 0
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):
pH Meter Calibration YES 9-12-14

Field Measurements

Parameter	Influent (Total)	System-Influent	Effluent	Comments
Differential Pressure, "wc				
Air Velocity, FPM		2700		
Pipe Diameter, inches		3		
Air Flow Rate, cfm				
Applied Vacuum, "WC/(Hg)	12"Hg			
Temperature, deg F		100	142	
PID Readings, ppmv		150	1.7	

Other Readings/Measurements

Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/(Hg)	DTW
EX-1	0				MW-1	0	9.16
EX-2	100				MW-2	-.50	8.98
EX-3	100				MW-3	-3.53	9.47
EX-4	100				MW-4	CAP	
EX-5	100				MW-5A	-.40	8.61
EX-6	100				MW-6A	-.37	8.60 8.82
EX-7	100						

mrl TR3001-1A
slm 12827-02 DPE

Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF		W INF	
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
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	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
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

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: 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	Concentration		Reporting Limit	Date Extracted	Date 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 µg/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 µg/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 µg/L	09/25/14	09/25/14
		Benzene	3,400		10 µg/L	09/25/14	09/25/14
		Toluene	19		10 µg/L	09/25/14	09/25/14
		Ethylbenzene	2,000		10 µg/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 ACCREDITED DoD ELAP

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.

9/29/14
Report Date

Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: STR14092241 **Job:** Olympic Station

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

Alpha Analytical, Inc.

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

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

Date: 29-Sep-14

QC Summary Report

Work Order: 14092241

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14092505.D** Batch ID: **MS09W0925B** Analysis Date: **09/25/2014 12:17**

Sample ID: **MBLK MS09W0925B** Units : **µg/L** Run ID: **MSD_09_140925A** Prep Date: **09/25/2014 12:17**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14092504.D** Batch ID: **MS09W0925B** Analysis Date: **09/25/2014 11:32**

Sample ID: **GLCS MS09W0925B** Units : **µg/L** Run ID: **MSD_09_140925A** Prep Date: **09/25/2014 11:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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		97	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14092520.D** Batch ID: **MS09W0925B** Analysis Date: **09/25/2014 18:15**

Sample ID: **14091941-08AGS** Units : **µg/L** Run ID: **MSD_09_140925A** Prep Date: **09/25/2014 18:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14092521.D** Batch ID: **MS09W0925B** Analysis Date: **09/25/2014 18:39**

Sample ID: **14091941-08AGSD** Units : **µg/L** Run ID: **MSD_09_140925A** Prep Date: **09/25/2014 18:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2130	250	2000	93.86	102	54	143	1841	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.

Alpha Analytical, Inc.

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

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

Date: 29-Sep-14

QC Summary Report

Work Order: 14092241

Method Blank

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

File ID: **14092505.D** Batch ID: **MS09W0925A** Analysis Date: **09/25/2014 12:17**

Sample ID: **MBLK MS09W0925A** Units : µg/L Run ID: **MSD_09_140925A** Prep Date: **09/25/2014 12:17**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	ND	0.5								
o-Xylene	ND	0.5								
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 **LCS** Test Code: **EPA Method SW8260B**

File ID: **14092503.D** Batch ID: **MS09W0925A** Analysis Date: **09/25/2014 11:08**

Sample ID: **LCS MS09W0925A** Units : µg/L Run ID: **MSD_09_140925A** Prep Date: **09/25/2014 11:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.92	0.5	10		89	63	137			
Benzene	9.43	0.5	10		94	70	130			
Toluene	9.91	0.5	10		99	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	9.8	0.5	10		98	65	139			
o-Xylene	9.39	0.5	10		94	70	130			
Surr: 1,2-Dichloroethane-d4	9.37		10		94	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	8.84		10		88	70	130			

Sample Matrix Spike

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

File ID: **14092518.D** Batch ID: **MS09W0925A** Analysis Date: **09/25/2014 17:28**

Sample ID: **14091941-08AMS** Units : µg/L Run ID: **MSD_09_140925A** Prep Date: **09/25/2014 17:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	114	1.3	50	63.04	102	56	140			
Benzene	59.3	1.3	50	1.09	116	67	134			
Toluene	62.1	1.3	50	0	124	38	130			
Ethylbenzene	65.5	1.3	50	0	131	70	130			M1
m,p-Xylene	60.1	1.3	50	0	120	65	139			
o-Xylene	58	1.3	50	0	116	69	130			
Surr: 1,2-Dichloroethane-d4	43		50		86	70	130			
Surr: Toluene-d8	50.9		50		102	70	130			
Surr: 4-Bromofluorobenzene	46.9		50		94	70	130			

Sample Matrix Spike Duplicate

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

File ID: **14092519.D** Batch ID: **MS09W0925A** Analysis Date: **09/25/2014 17:51**

Sample ID: **14091941-08AMSD** Units : µg/L Run ID: **MSD_09_140925A** Prep Date: **09/25/2014 17:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	123	67	134	59.29	5.5(21)	
Toluene	67.3	1.3	50	0	135	38	130	62.08	8.1(20)	M1
Ethylbenzene	70.7	1.3	50	0	141	70	130	65.53	7.7(20)	M1
m,p-Xylene	65.1	1.3	50	0	130	65	139	60.14	7.9(20)	
o-Xylene	62.4	1.3	50	0	125	69	130	57.97	7.4(20)	
Surr: 1,2-Dichloroethane-d4	41.6		50		83	70	130			
Surr: Toluene-d8	52.1		50		104	70	130			
Surr: 4-Bromofluorobenzene	47.1		50		94	70	130			

Alpha Analytical, Inc.

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

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

Date: *29-Sep-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

CA

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

WorkOrder : STR14092241

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

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

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 # : 16825 Job : Olympic Station

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

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_W	VOC_W							Sample Remarks
STR14092241-01A	MW 5A	AQ	09/19/14 05:25	3	0	5	GAS-C	BTXE/M_C							
STR14092241-02A	MW 6A	AQ	09/19/14 05:37	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. :

	Signature	Print Name	Company	Date/Time
Logged in by:		ARIADNA CHACON	Alpha Analytical, Inc.	9/22/14 0932

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: Stratus
Attn: Debbie
Address: 3330 Cameron Park
City, State, Zip: Cameron Pk
Phone Number: 5306766004 Fax: 5306766005

Alpha Analytical, Inc. Environmental Lab

Alpha Analytical, Inc.
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 Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848

16825

Page # 1 of 1

Consultant/ Client Info:
Company: Stratus
Address:
City, State, Zip:

Job and Purchase Order Info:
Job #
Job Name: Olympic station
P.O. #:

Report Attention/Project Manager:
Name: Scott
Email Address:
Phone #:
Cell #:

QC Deliverable Info:
EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	GRO 8015M	BTEX 8260B	MTBE							Remarks
0525	9/19	AQ	STR14092241-01	MW 5A	STD	3		X	X	X	X							
0537	)	)	↓ 02	MW 6A	STD	3		X	X	X	X							

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: [signature]

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature] Stratus	9-19-14	1015	Melissa J	9-19-14	1015
			[signature]	9-22-14	0904

* 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. 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.

KIFF Analytical LLC

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 D. Turpen

Troy Turpen

KIFF Analytical LLC

Report Number : 88741
Date : 07/22/2014

Project Name : **Olympic Station**
Project Number :

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 :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	07/21/2014
1,2-Dichloroethane-d4 (Surr)	98.4		%	EPA 8260B	07/21/2014
Toluene - d8 (Surr)	100		%	EPA 8260B	07/21/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 88741

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Send Report To: Debbie
Email Address:
Company: Stantec
Address: 3330 Cameron Park Dr
Phone Number: 530 676 6004 Fax Number: 530 676 6005
Project #: P.O. #:
Project Name: Olympic Station
Project Address: San Lorenzo

Electronic Data Deliverable (EDD):
☐ CA EDF ☐ CA WriteOn ☐ WA EIM
☐ Excel ☐ EQuIS _____ (format) ☐ Other _____
Global ID (for CA EDF use):
EDD Deliverable To (Email Address):
Sampling Company: Stantec Sampler Signature:
Invoice To: Stantec

Sample Identification	Sampling: Date	Sampling: Time	# of Containers: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	# Preserved: HCl	HNO_3	None			Matrix: Water	Soil	Air	Other (specify)	TPH: Gas (8260) ☒	Other (specify):	8260B: BTEX: Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	5 Oxygenates: MTBE	DIPE	ETBE	TAME	TBA	7 Oxygenates (5 Oxygenates plus): Ethanol	Methanol	Lead Scavengers: 1,2 DCA	1,2 EDB	Halogenated Volatile Organic Compounds (former 8010 list)	Volatile Organic Compounds Full List	524: Volatile Organics by EPA Method 524.2	Metals: Metals Group (Method: ____): ☐ CAM 17 ☐ LUFT 5	Individual Metals (list and enter method):	SPECIAL: ☐ Nitrate as N ☐ Nitrite as N ☐ Ferrous Iron	☐ Nitrate as NO_3 ☐ Nitrite as NO_2	Chromium VI by EPA 7199	Other	For Lab Use Only
Oly A SYS INF	7/21	0730					X			X					X		X		X			X	X																				01
Oly A EFF	7/21	0720					X			X					X		X		X			X	X																				02

Relinquished by (signature/affiliation): Chris Stanton — Date & Time: 7/21/14 1046
Received by (signature/affiliation): — Date & Time:
Relinquished by (signature/affiliation): — Date & Time:
Received by (signature/affiliation): — Date & Time:
Relinquished by (signature/affiliation): — Date & Time:
Received by Kiff Analytical (signature): Michelle Spencer — Date & Time: 072114 1046

Remarks and Special Instructions (composite, filter, MS/MSD, return samples, Silica Gel, etc.):
24 HR TAT on EFF
STD on others

Turnaround Time (TAT - Circle One):
Standard 4-Day 3-Day 2-Day (1-Day) Other: _____
TAT in business days. Surcharge may apply. TAT for subcontracted work may vary.

Distribution: Original - Lab; Copy - Originator
Rev: 052113

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

SRG #: 88741

Sample Receipt	Initials/Date: MAS 072114	Storage Time: 1046	Sample Login	Initials/Date: MAS 072114

TAT: ☐ Standard ☐ Rush ☒ Split ☐ None

Method of Receipt: ☐ Courier ☒ Over-the-counter ☐ Shipped

Temp °C ☒ N/A | Therm ID | Time

Coolant present ☐ Yes ☐ No ☐ Water ☐ Temp Excursion

For Shipments Only: Cooler Receipt Initials/Date/Time:

Custody Seals ☐ N/A ☐ Intact ☐ Broken

Chain-of-Custody:	Yes	No
Is COC present?	X	
Is COC signed by relinquisher?	X	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	X	

Documented on	COC	Labels	Discrepancies:
Sample ID	X	X	
Project ID	X		
Sample Date	X	X	
Sample Time	X	X	
Does COC match project history?	☒ N/A	☐ Yes	☐ No

Samples:	N/A	Yes	No
Are sample custody seals intact?	X		
Are sample containers intact?		X	
Is preservation documented?	X		
In-house Analysis:	**N/A**	**Yes**	**No**
Are preservatives acceptable?	X		
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Comments: Tedlars 1024397 - 05 & 06.
MAS 072114 1058

Receipt Details:

Matrix	Container Type	# of Containers
AR	Tedlar	2

CS Required: ☒

Proceed With Analysis: ☐ YES ☐ NO Init/Date:
Client Communication:

KIFF Analytical LLC

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 G. Turpen

Troy Turpen

KIFF Analytical LLC

Report Number : 88839
Date : 08/05/2014

Project Name : **Olympic Station**
Project Number :

Sample : **SYS INF A Oly** Matrix : Air Lab Number : 88839-01
Sample Date :08/04/2014

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)	100		% Recovery	EPA 8260B	08/04/14 17:32
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	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 :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 88839

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Send Report To: Debbie
Email Address:
Company: Stratus
Address: 3330 Cameron Park DR
Phone Number: 530 676 6004
Fax Number: 530 676 6005
Project #:
P.O. #:
Project Name: Eagle GAS
Project Address: San Lorenzo

Electronic Data Deliverable (EDD):
☐ CA EDF ☐ CA WriteOn ☐ WA EIM
☐ Excel ☐ EQuIS _____ (format) ☐ Other _____
Global ID (for CA EDF use):
EDD Deliverable To (Email Address):
Sampling Company: Stratus
Sampler Signature: CHILL
Invoice To: Stratus

Sample Identification	Sampling Date	Sampling Time	# of Containers: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	# Preserved: HCl	HNO_3	None			Matrix: Water	Soil	Air	Other (specify)	TPH: ☒ Gas (8260) ☐ Gas (8015)	☐ Diesel	☐ Motor Oil	☐ Other (specify):	8260B: BTEX: Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	5 Oxygenates: MTBE	DIPE	ETBE	TAME	TBA	7 Oxygenates (5 Oxygenates plus): Ethanol	Methanol	Lead Scavengers: 1,2 DCA	1,2 EDB	Halogenated Volatile Organic Compounds (former 8010 list)	Volatile Organic Compounds Full List	524: Volatile Organics by EPA Method 524.2	Metals: Metals Group (Method: _____) ☐ CAM 17 ☐ LUFT 5	Individual Metals (list and enter method):	SPECIAL: ☐ Nitrate as N ☐ Nitrite as N ☐ Ferrous Iron	☐ Nitrate as NO_3 ☐ Nitrite as NO_2	Chromium VI by EPA 7199	Other	For Lab Use Only
Sys INF A Oly	8414	0740					X			X					X		X				X	X																					01
EFF A Oly	8414	0736					X			X					X		X				X	X																					02

Relinquished by (signature/affiliation): Stratus — Date & Time: 8/14 1300
Received by (signature/affiliation): — Date & Time:
Relinquished by (signature/affiliation): — Date & Time:
Received by (signature/affiliation): — Date & Time:
Relinquished by (signature/affiliation): — Date & Time:
Received by Kiff Analytical (signature): Michelle Spencer — Date & Time: 080414 1304

Remarks and Special Instructions (composite, filter, MS/MSD, return samples, Silica Gel, etc.):
24HR TAT on EFF
3td TAT on Sys INF

Turnaround Time (TAT - Circle One):
Standard 4-Day 3-Day 2-Day 1-Day Other: _____
TAT in business days. Surcharge may apply. TAT for subcontracted work may vary.

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

SRG #: 88839

Sample Receipt	Initials/Date: MAS 080414	Storage Time: 1304	Sample Login	Initials/Date: MAS 080414

TAT: ☐ Standard ☐ Rush ☒ Split ☐ None

Method of Receipt: ☐ Courier ☒ Over-the-counter ☐ Shipped

Temp °C	☒ N/A	Therm ID	Time	Coolant present	☐ Yes	☐ No	☐ Water	☐ Temp Excursion

For Shipments Only:	Cooler Receipt Initials/Date/Time:	Custody Seals	☐ N/A	☐ Intact	☐ Broken

Chain-of-Custody:	Yes	No
Is COC present?	X	
Is COC signed by relinquisher?	X	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	X	

Documented on	COC	Labels	Discrepancies:
Sample ID	X	X	
Project ID	X		
Sample Date	X	X	
Sample Time	X	X	
Does COC match project history?	☐ N/A	☒ Yes	☐ No

Samples:	N/A	Yes	No
Are sample custody seals intact?	X		
Are sample containers intact?		X	
Is preservation documented?	X		
In-house Analysis:	**N/A**	**Yes**	**No**
Are preservatives acceptable?	X		
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Comments: Kiff tag #s: 1024397-01, -20. TJB 080414 1335
SIMF to confirm project ID. Sample ID suffixes do not match project history. MAS 080414 1356

Receipt Details:

Matrix	Container Type	# of Containers
AR	Tedlar	2

CS Required: ☒

Proceed With Analysis: ☐ YES ☐ NO Init/Date:
Client Communication:

KIFF Analytical LLC

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 G. Turpen

Troy Turpen

KIFF Analytical LLC

Report Number : 89089
Date : 09/09/2014

Project Name : **Olympic Station**
Project Number :

Sample : **Oly A SYS INF** Matrix : Air Lab Number : 89089-01
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)	99.2		% Recovery	EPA 8260B	09/08/14 23:15
Toluene - d8 (Surr)	95.8		% Recovery	EPA 8260B	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 :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date 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
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

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 89069

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Send Report To: Debbie
Email Address:
Company: Stantec
Address: 3330 Cameron Park Dr
Phone Number: 5306766004 Fax Number: 530 676 6005
Project #: P.O. #:
Project Name: Olympic station
Project Address: San Lorenzo

Electronic Data Deliverable (EDD):
☐ CA EDF ☐ CA WriteOn ☐ WA EIM
☐ Excel ☐ EQuIS _____ (format) ☐ Other _____
Global ID (for CA EDF use):
EDD Deliverable To (Email Address):
Sampling Company: Stantec Sampler Signature:
Invoice To: Stantec

Sample Identification	Sampling: Date	Sampling: Time	# of Containers: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	# Preserved: HCl	HNO_3	None	Matrix: Water	Soil	Air	Other (specify)	TPH: Gas (8260)	Other (specify):	TPH: Motor Oil	Diesel	Gas (8015)	8260B: BTEX: Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	5 Oxygenates: MTBE	DIPE	ETBE	TAME	TBA	7 Oxygenates (5 Oxygenates plus): Ethanol	Methanol	Lead Scavengers: 1,2 DCA	1,2 EDB	Halogenated Volatile Organic Compounds (former 8010 list)	Volatile Organic Compounds Full List	524: Volatile Organics by EPA Method 524.2	Metals: Metals Group (Method: ____): ☐ CAM 17 ☐ LUFT 5	Individual Metals (list and enter method):	SPECIAL: ☐ Nitrate as N ☐ Nitrite as N ☐ Ferrous Iron	☐ Nitrate as NO_3 ☐ Nitrite as NO_2	Chromium VI by EPA 7199	Other	For Lab Use Only
Oly A Sys Inf	9/8	0810					X			X			X		X					X	X																						01
Oly A Eff	9/8	0805					X			X			X		X					X	X																						02

Relinquished by (signature/affiliation): Stantec Date & Time: 9/8/14 1100
Received by (signature/affiliation): Date & Time:
Relinquished by (signature/affiliation): Date & Time:
Received by (signature/affiliation): Date & Time:
Relinquished by (signature/affiliation): Date & Time:
Received by Kiff Analytical (signature): Michelle Spencer Date & Time: 09/08/14 1107

Remarks and Special Instructions (composite, filter, MS/MSD, return samples, Silica Gel, etc.):
24 HR TAT on Eff
STD TAT on Sys Inf

Turnaround Time (TAT - Circle One):
(Standard) 4-Day 3-Day 2-Day 1-Day Other: _____
TAT in business days. Surcharge may apply. TAT for subcontracted work may vary.

Page 4 of 5

Distribution: Original - Lab; Copy - Originator
Rev: 052113

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

SRG #: 89089

Sample Receipt	Initials/Date: MMS 090814	Storage Time: 11DJ	Sample Login	Initials/Date: Eg 090814

TAT: ☐ Standard ☐ Rush ☒ Split ☐ None Method of Receipt: ☐ Courier ☒ Over-the-counter ☐ Shipped

Temp °C	☒ N/A	Therm ID	Time	Coolant present ☐ Yes ☐ No ☐ Water	☐ Temp Excursion

For Shipments Only:	Cooler Receipt Initials/Date/Time:	Custody Seals ☐ N/A ☐ Intact ☐ Broken

Chain-of-Custody:	Yes	No
Is COC present?	X	
Is COC signed by relinquisher?	X	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	X	

Documented on	COC	Labels	Discrepancies:
Sample ID	/	/	
Project ID	/		
Sample Date	/	/	
Sample Time	/	/	
Does COC match project history?	☐ N/A	☒ Yes	☐ No

Samples:	N/A	Yes	No
Are sample custody seals intact?	X		
Are sample containers intact?		X	
Is preservation documented?	X		
In-house Analysis:	**N/A**	**Yes**	**No**
Are preservatives acceptable?	X		
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Comments: Bag #s: 1024824-02 and -01. Eg 090814 1218

Receipt Details:

Matrix	Container Type	# of Containers
AR	Tedlar	2

CS Required: ☒

Proceed With Analysis: ☐ YES ☐ NO Init/Date:
Client Communication:

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

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

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

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7/23/14
Report Date

Alpha Analytical, Inc.

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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.

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Report Date

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: Olympic

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

Alpha Analytical Number: STR14072144-01A
Client I.D. Number: INF W Oly

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 Randy Gardner Walter Hinchman

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ANALYTICAL REPORT

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3330 Cameron Park Drive
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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 :	**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 ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

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Report Date

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VOC Sample Preservation Report

Work Order: STR14072144 **Job:** Olympic

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

7/23/14

Report Date

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Date: *13-Aug-14*

QC Summary Report

Work Order: 14072144

Method Blank Type **MBLK** Test Code: **EPA Method 245.1**

File ID: **1** Batch ID: **33272t** Analysis Date: **07/22/2014 17:03**

Sample ID: **MB-33272** Units : **µg/L** Run ID: **MANUAL_140722B** Prep Date: **07/22/2014 10:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	ND	0.2								

Laboratory Control Spike Type **LCS** Test Code: **EPA Method 245.1**

File ID: **2** Batch ID: **33272t** Analysis Date: **07/22/2014 17:05**

Sample ID: **LCS-33272** Units : **µg/L** Run ID: **MANUAL_140722B** Prep Date: **07/22/2014 10:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	10.6	0.2	10		106	85	115			

Sample Matrix Spike Type **MS** Test Code: **EPA Method 245.1**

File ID: **4** Batch ID: **33272t** Analysis Date: **07/22/2014 17:10**

Sample ID: **14072144-01AMS** Units : **µg/L** Run ID: **MANUAL_140722B** Prep Date: **07/22/2014 10:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	9.87	0.2	10	0	99	70	130			

Sample Matrix Spike Duplicate Type **MSD** Test Code: **EPA Method 245.1**

File ID: **5** Batch ID: **33272t** Analysis Date: **07/22/2014 17:12**

Sample ID: **14072144-01AMSD** Units : **µg/L** Run ID: **MANUAL_140722B** Prep Date: **07/22/2014 10:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	10.2	0.2	10	0	102	70	130	9.87	3.3(20)	

Comments:

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Date: *13-Aug-14*

QC Summary Report

Work Order: 14072144

Method Blank

Type **MBLK** Test Code: **EPA Method 200.8**

File ID: **1** Batch ID: **33274** Analysis Date: **07/22/2014 14:33**

Sample ID: **MB-33274** Units : **µg/L** Run ID: **MANUAL_140722A** Prep Date: **07/22/2014 12:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	ND	10								
Nickel (Ni)	ND	10								
Copper (Cu)	ND	20								
Zinc (Zn)	ND	100								
Arsenic (As)	ND	5								
Selenium (Se)	ND	5								
Silver (Ag)	ND	5								
Cadmium (Cd)	ND	2								
Lead (Pb)	ND	5								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 200.8**

File ID: **3** Batch ID: **33274** Analysis Date: **07/22/2014 14:38**

Sample ID: **LCS-33274** Units : **µg/L** Run ID: **MANUAL_140722A** Prep Date: **07/22/2014 12:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	500		104	85	115			
Arsenic (As)	48.8	5	50		98	85	115			
Selenium (Se)	49.2	5	50		98	85	115			
Silver (Ag)	45.8	5	50		92	85	115			
Cadmium (Cd)	47.8	2	50		96	85	115			
Lead (Pb)	47.4	5	50		95	85	115			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 200.8**

File ID: **5** Batch ID: **33274** Analysis Date: **07/22/2014 14:43**

Sample ID: **14072145-01AMS** Units : **µg/L** Run ID: **MANUAL_140722A** Prep Date: **07/22/2014 12:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	49.2	10	50	0	98	70	130			
Nickel (Ni)	50.3	10	50	0	101	70	130			
Copper (Cu)	49.4	20	50	0	99	70	130			
Zinc (Zn)	539	100	500	0	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	50	0	93	70	130			
Cadmium (Cd)	47.6	2	50	0	95	70	130			
Lead (Pb)	47.7	5	50	0	95	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 200.8**

File ID: **6** Batch ID: **33274** Analysis Date: **07/22/2014 14:46**

Sample ID: **14072145-01AMSD** Units : **µg/L** Run ID: **MANUAL_140722A** Prep Date: **07/22/2014 12:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	49.5	10	50	0	99	70	130	49.18	0.7(20)	
Nickel (Ni)	50.2	10	50	0	100	70	130	50.25	0.0(20)	
Copper (Cu)	50	20	50	0	100	70	130	49.42	1.1(20)	
Zinc (Zn)	539	100	500	0	108	70	130	539.2	0.0(20)	
Arsenic (As)	57.5	5	50	7.716	99.6	70	130	57.91	0.7(20)	
Selenium (Se)	52.4	5	50	0	105	70	130	55.01	4.8(20)	
Silver (Ag)	46	5	50	0	92	70	130	46.31	0.7(20)	
Cadmium (Cd)	48.6	2	50	0	97	70	130	47.63	2.0(20)	
Lead (Pb)	49	5	50	0	98	70	130	47.72	2.6(20)	

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Date: *13-Aug-14*

QC Summary Report

Work Order: 14072144

Comments:

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Date: *13-Aug-14*

QC Summary Report

Work Order: 14072144

Method Blank Type **MBLK** Test Code: **EPA Method SW8270C - SIM**

File ID: Batch ID: **33273** Analysis Date: **08/01/2014 15:09**

Sample ID: **MBLK-32273** Units : **µg/L** Run ID: **MSD_16_140722A** Prep Date: **08/01/2014 15:09**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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:

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Date: *13-Aug-14*

QC Summary Report

Work Order: 14072144

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14072307.D** Batch ID: **MS12W0723B** Analysis Date: **07/23/2014 14:41**

Sample ID: **MBLK MS12W0723B** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 14:41**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.4		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 **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14072305.D** Batch ID: **MS12W0723B** Analysis Date: **07/23/2014 13:49**

Sample ID: **GLCS MS12W0723B** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 13:49**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14072319.D** Batch ID: **MS12W0723B** Analysis Date: **07/23/2014 19:00**

Sample ID: **14072240-01AGS** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 19:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14072320.D** Batch ID: **MS12W0723B** Analysis Date: **07/23/2014 19:21**

Sample ID: **14072240-01AGSD** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 19:21**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1940	250	2000	0	97	54	143	1963	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:

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Date: *13-Aug-14*

QC Summary Report

Work Order: 14072144

Method Blank

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

File ID: **14072307.D** Batch ID: **MS12W0723A** Analysis Date: **07/23/2014 14:41**

Sample ID: **MBLK MS12W0723A** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 14:41**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	ND	0.5								
o-Xylene	ND	0.5								
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 **LCS** Test Code: **EPA Method SW8260B**

File ID: **14072306.D** Batch ID: **MS12W0723A** Analysis Date: **07/23/2014 14:11**

Sample ID: **LCS MS12W0723A** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 14:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	80	120			
m,p-Xylene	10	0.5	10		100	65	139			
o-Xylene	10.2	0.5	10		102	70	130			
Surr: 1,2-Dichloroethane-d4	10.7		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 Code: **EPA Method SW8260B**

File ID: **14072317.D** Batch ID: **MS12W0723A** Analysis Date: **07/23/2014 18:17**

Sample ID: **14072240-01AMS** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 18:17**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.1	1.3	50	0	76	56	140			
Benzene	43.6	1.3	50	0	87	67	134			
Toluene	42.6	1.3	50	0	85	38	130			
Ethylbenzene	44.2	1.3	50	0	88	70	130			
m,p-Xylene	45.4	1.3	50	0	91	65	139			
o-Xylene	47.9	1.3	50	0	96	69	130			
Surr: 1,2-Dichloroethane-d4	58.9		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 Code: **EPA Method SW8260B**

File ID: **14072318.D** Batch ID: **MS12W0723A** Analysis Date: **07/23/2014 18:38**

Sample ID: **14072240-01AMSD** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 18:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.5	1.3	50	0	77	56	140	38.07	1.1(40)	
Benzene	45.4	1.3	50	0	91	67	134	43.6	4.0(21)	
Toluene	44.4	1.3	50	0	89	38	130	42.55	4.1(20)	
Ethylbenzene	46.2	1.3	50	0	92	70	130	44.21	4.4(20)	
m,p-Xylene	47.9	1.3	50	0	96	65	139	45.4	5.4(20)	
o-Xylene	50.1	1.3	50	0	100	69	130	47.92	4.5(20)	
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: *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.

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

July 23, 2014

CLS Work Order #: CXG0894
COC #:

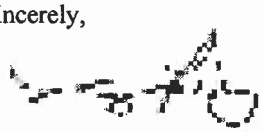
Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

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,



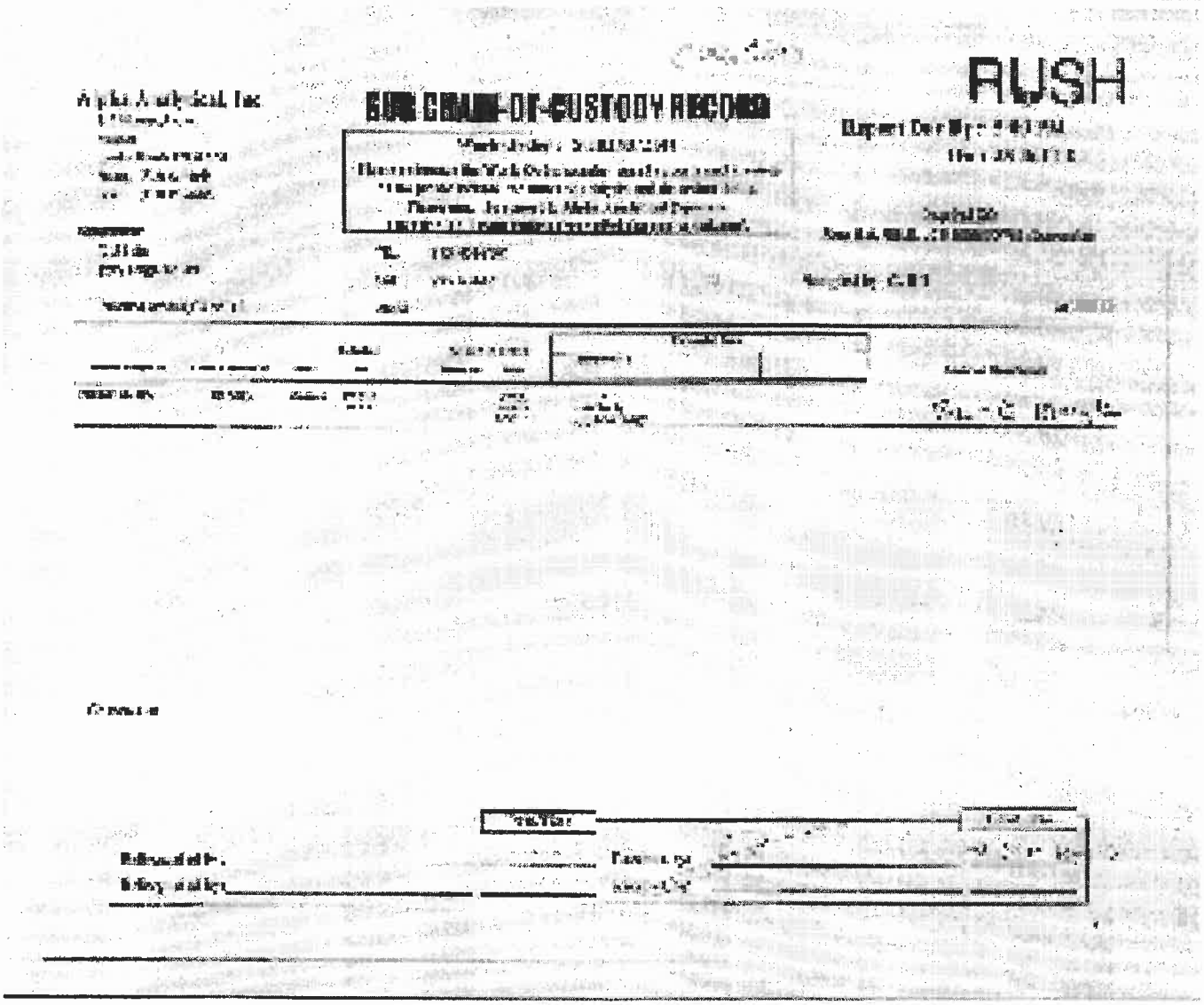
James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

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 #:



CALIFORNIA LABORATORY SERVICES

07/23/14 10:59

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 #:

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	

CALIFORNIA LABORATORY SERVICES

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 & Analyzed: 07/22/14						
Cyanide (total)	0.0852	0.0050	mg/L	0.100		85	75-125	3	25	
Matrix Spike (CX05002-MS1)		**Source: CXG0642-01**		Prepared & Analyzed: 07/22/14						
Cyanide (total)	0.0835	0.0050	mg/L	0.100	ND	84	75-125			
Matrix Spike Dup (CX05002-MSD1)		**Source: CXG0642-01**		Prepared & Analyzed: 07/22/14						
Cyanide (total)	0.0850	0.0050	mg/L	0.100	ND	85	75-125	2	25	

CALIFORNIA LABORATORY SERVICES

07/23/14 10:59

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 #:

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

Page 1 of 1

CA RUSH

WorkOrder : STR14072144

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

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

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

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

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 245_1_W	CYANIDE_TOTAL_W	METALS_DW	PHENOLS_SIM_W	TPH/P_W	VOC_W			Sample Remarks
STR14072144-01A	INF W Oly	AQ	07/21/14 07:43	7	1	2	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. 24hr TAT. :

	Signature	Print Name	Company	Date/Time
Logged in by:		ARMANDA CHACON	Alpha Analytical, Inc.	7/22/14 1030

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: Stantec
Attn: Debbie
Address: 3530 Cameron Park Dr
City, State, Zip: Cameron Park
Phone Number: 5306766604 Fax: 5306766605

Alpha Analytical, Inc.

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 Phone: 916-366-8089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901
Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801 Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848

16592

Page # 1 of 1

Consultant/ Client Info:

Company: Stantec
Address:
City, State, Zip:

Job and Purchase Order Info:

Job #
Job Name: Olympic
P.O. #:

Report Attention/Project Manager:

Name: Jenner
Email Address:
Phone #:
Cell #:

QC Deliverable Info:

EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	GRO, TPH	BTEX	MTBE	Lead 200.8	Metals 200.8	8260B Oxygenates	Phenols 420				Remarks
0743	7/21/14	AQ	[redacted]	INF W OIY	48	8		X	X	X	X	X	X	X	X				metals
0754				GAC1 W OIY	STD	3		X	X	X	X								As, Cd, Cu
0747				GAC2 W OIY	STD	3		X	X	X	X								Hg, Ni, Se
0900		AQ		EFF W OIY	24	8		X	X	X	X	X	X	X	X				Ag, Cr, Zn

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: GHILL

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Chad Stanley	7-21-14	1120	Mendoza T	7-21-14	1120
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date: 7/22/14	Time: 0951
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received 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. 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.

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: 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.

ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

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

7/29/14
Report Date

Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: STR14072240 **Job:** Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14072240-01A	GAC1 W Oly	Aqueous	2
14072240-02A	GAC2 W Oly	Aqueous	2

7/29/14

Report Date

Alpha Analytical, Inc.

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

Date: 29-Jul-14

QC Summary Report

Work Order: 14072240

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14072307.D** Batch ID: **MS12W0723B** Analysis Date: **07/23/2014 14:41**

Sample ID: **MBLK MS12W0723B** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 14:41**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.4		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 **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14072305.D** Batch ID: **MS12W0723B** Analysis Date: **07/23/2014 13:49**

Sample ID: **GLCS MS12W0723B** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 13:49**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14072319.D** Batch ID: **MS12W0723B** Analysis Date: **07/23/2014 19:00**

Sample ID: **14072240-01AGS** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 19:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14072320.D** Batch ID: **MS12W0723B** Analysis Date: **07/23/2014 19:21**

Sample ID: **14072240-01AGSD** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 19:21**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1940	250	2000	0	97	54	143	1963	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.

Alpha Analytical, Inc.

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

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

Date: 29-Jul-14

QC Summary Report

Work Order: 14072240

Method Blank

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

File ID: **14072307.D** Batch ID: **MS12W0723A** Analysis Date: **07/23/2014 14:41**

Sample ID: **MBLK MS12W0723A** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 14:41**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	ND	0.5								
o-Xylene	ND	0.5								
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 **LCS** Test Code: **EPA Method SW8260B**

File ID: **14072306.D** Batch ID: **MS12W0723A** Analysis Date: **07/23/2014 14:11**

Sample ID: **LCS MS12W0723A** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 14:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	80	120			
m,p-Xylene	10	0.5	10		100	65	139			
o-Xylene	10.2	0.5	10		102	70	130			
Surr: 1,2-Dichloroethane-d4	10.7		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 Code: **EPA Method SW8260B**

File ID: **14072317.D** Batch ID: **MS12W0723A** Analysis Date: **07/23/2014 18:17**

Sample ID: **14072240-01AMS** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 18:17**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.1	1.3	50	0	76	56	140			
Benzene	43.6	1.3	50	0	87	67	134			
Toluene	42.6	1.3	50	0	85	38	130			
Ethylbenzene	44.2	1.3	50	0	88	70	130			
m,p-Xylene	45.4	1.3	50	0	91	65	139			
o-Xylene	47.9	1.3	50	0	96	69	130			
Surr: 1,2-Dichloroethane-d4	58.9		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 Code: **EPA Method SW8260B**

File ID: **14072318.D** Batch ID: **MS12W0723A** Analysis Date: **07/23/2014 18:38**

Sample ID: **14072240-01AMSD** Units : µg/L Run ID: **MSD_12_140723A** Prep Date: **07/23/2014 18:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.5	1.3	50	0	77	56	140	38.07	1.1(40)	
Benzene	45.4	1.3	50	0	91	67	134	43.6	4.0(21)	
Toluene	44.4	1.3	50	0	89	38	130	42.55	4.1(20)	
Ethylbenzene	46.2	1.3	50	0	92	70	130	44.21	4.4(20)	
m,p-Xylene	47.9	1.3	50	0	96	65	139	45.4	5.4(20)	
o-Xylene	50.1	1.3	50	0	100	69	130	47.92	4.5(20)	
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			

Alpha Analytical, Inc.

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

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

Date: *29-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.

Billing Information :

CHAIN-OF-CUSTODY RECORD

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

CA

WorkOrder : STR14072240

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

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

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

PO :

Client's COC # : 16592 Job : Olympic

EDD Required : Yes

Sampled by : C. Hill

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

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests								Sample Remarks
							TPH/P_W	VOC_W							
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							

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

	Signature	Print Name	Company	Date/Time
Logged in by:		ARIADNA CHACON	Alpha Analytical, Inc.	7/22/14 1049

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: Stratus
Attn: Debbie
Address: 3330 Cameron Pk DR
City, State, Zip: Cameron Pk
Phone Number: 530676[illegible] Fax: 5306766005

Alpha Analytical, Inc.
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 Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848

16592

Page # 1 of 1

Consultant/ Client Info:
Company: Stratus
Address:
City, State, Zip:

Job and Purchase Order Info:
Job #
Job Name: Olympic
P.O. #:

Report Attention/Project Manager:
Name: Trevor
Email Address:
Phone #:
Cell #:

QC Deliverable Info:
EDD Required? Yes / No
EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	GRO, TPH	Btex	MTBE	Lead 200.8	metals 200.8	SM4500 CN C,E cyanide	Phenols 420				Remarks
0743	7/21/14	AQ	[illegible]	INF w Oly	48	8		X	X	X	X	X	X	X	X				metals As, Cd, Cu Hg, Ni, Se Hg, Cr, Zn
0754			STR14072240-01A	GAC1 w Oly	STD	3		X	X	X	X								
0747			STR14072240-02A	GAC2 w Oly	STD	3		X	X	X	X								
0900?		AQ	[illegible]	EFF w Oly	24	8		X	X	X	X	X	X	X	X				

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: C HILL

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature] Stratus	7-21-14	1120	Messaut?	7-21-14	1120
			[signature]	7/22/14	1041

* 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. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

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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 Limit	Date Extracted	Date Analyzed
Client ID: **EFFW Oly**				
Lab ID : STR14072145-01A Mercury (Hg)	ND	0.20 µg/L	07/22/14 17:17	07/22/14 17:17
Date Sampled 07/21/14 09:00				

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

Roger Scholl Randy Gardner Walter Hinchman

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

7/22/14
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

Metals by ICPMS
EPA Method 200.8

Parameter	Concentration	Reporting Limit	Date Extracted	Date 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.

ACCREDITED ACLASS DoD ELAP

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

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

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

ACCLASS ACCREDITED
ORELAP

Roger Scholl Randy Gardner Walter Hinchman

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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 µg/L	07/22/14	07/22/14
		Ethylbenzene	ND	0.50 µg/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.

ACLASS ACCREDITED DoD ELAP

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Report Date

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VOC Sample Preservation Report

Work Order: STR14072145 **Job:** Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14072145-01A	EFFW Oly	Aqueous	4

7/22/14

Report Date

Alpha Analytical, Inc.

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Date: *13-Aug-14*

QC Summary Report

Work Order: 14072145

Method Blank

Type **MBLK** Test Code: **EPA Method 245.1**

File ID: **1** Batch ID: **33272t** Analysis Date: **07/22/2014 17:03**

Sample ID: **MB-33272** Units : **µg/L** Run ID: **MANUAL_140722B** Prep Date: **07/22/2014 10:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	ND	0.2								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 245.1**

File ID: **2** Batch ID: **33272t** Analysis Date: **07/22/2014 17:05**

Sample ID: **LCS-33272** Units : **µg/L** Run ID: **MANUAL_140722B** Prep Date: **07/22/2014 10:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	10.6	0.2	10		106	85	115			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 245.1**

File ID: **4** Batch ID: **33272t** Analysis Date: **07/22/2014 17:10**

Sample ID: **14072144-01AMS** Units : **µg/L** Run ID: **MANUAL_140722B** Prep Date: **07/22/2014 10:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	9.87	0.2	10	0	99	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 245.1**

File ID: **5** Batch ID: **33272t** Analysis Date: **07/22/2014 17:12**

Sample ID: **14072144-01AMSD** Units : **µg/L** Run ID: **MANUAL_140722B** Prep Date: **07/22/2014 10:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 Blank

Type **MBLK** Test Code: **EPA Method 200.8**

File ID: **1** Batch ID: **33274** Analysis Date: **07/22/2014 14:33**

Sample ID: **MB-33274** Units : **µg/L** Run ID: **MANUAL_140722A** Prep Date: **07/22/2014 12:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	ND	10								
Nickel (Ni)	ND	10								
Copper (Cu)	ND	20								
Zinc (Zn)	ND	100								
Arsenic (As)	ND	5								
Selenium (Se)	ND	5								
Silver (Ag)	ND	5								
Cadmium (Cd)	ND	2								
Lead (Pb)	ND	5								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 200.8**

File ID: **3** Batch ID: **33274** Analysis Date: **07/22/2014 14:38**

Sample ID: **LCS-33274** Units : **µg/L** Run ID: **MANUAL_140722A** Prep Date: **07/22/2014 12:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	500		104	85	115			
Arsenic (As)	48.8	5	50		98	85	115			
Selenium (Se)	49.2	5	50		98	85	115			
Silver (Ag)	45.8	5	50		92	85	115			
Cadmium (Cd)	47.8	2	50		96	85	115			
Lead (Pb)	47.4	5	50		95	85	115			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 200.8**

File ID: **5** Batch ID: **33274** Analysis Date: **07/22/2014 14:43**

Sample ID: **14072145-01AMS** Units : **µg/L** Run ID: **MANUAL_140722A** Prep Date: **07/22/2014 12:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	49.2	10	50	0	98	70	130			
Nickel (Ni)	50.3	10	50	0	101	70	130			
Copper (Cu)	49.4	20	50	0	99	70	130			
Zinc (Zn)	539	100	500	0	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	50	0	93	70	130			
Cadmium (Cd)	47.6	2	50	0	95	70	130			
Lead (Pb)	47.7	5	50	0	95	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 200.8**

File ID: **6** Batch ID: **33274** Analysis Date: **07/22/2014 14:46**

Sample ID: **14072145-01AMSD** Units : **µg/L** Run ID: **MANUAL_140722A** Prep Date: **07/22/2014 12:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	49.5	10	50	0	99	70	130	49.18	0.7(20)	
Nickel (Ni)	50.2	10	50	0	100	70	130	50.25	0.0(20)	
Copper (Cu)	50	20	50	0	100	70	130	49.42	1.1(20)	
Zinc (Zn)	539	100	500	0	108	70	130	539.2	0.0(20)	
Arsenic (As)	57.5	5	50	7.716	99.6	70	130	57.91	0.7(20)	
Selenium (Se)	52.4	5	50	0	105	70	130	55.01	4.8(20)	
Silver (Ag)	46	5	50	0	92	70	130	46.31	0.7(20)	
Cadmium (Cd)	48.6	2	50	0	97	70	130	47.63	2.0(20)	
Lead (Pb)	49	5	50	0	98	70	130	47.72	2.6(20)	

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Date: *13-Aug-14*

QC Summary Report

Work Order: 14072145

Comments:

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Date: *13-Aug-14*

QC Summary Report

Work Order: 14072145

Method Blank Type **MBLK** Test Code: **EPA Method SW8270C - SIM**

File ID: Batch ID: **33273** Analysis Date: **08/01/2014 15:09**

Sample ID: **MBLK-32273** Units : µg/L Run ID: **MSD_16_140722A** Prep Date: **08/01/2014 15:09**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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:

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Date: *13-Aug-14*

QC Summary Report

Work Order: 14072145

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14072205.D** Batch ID: **MS15W0722B** Analysis Date: **07/22/2014 13:26**

Sample ID: **MBLK MS15W0722B** Units : **µg/L** Run ID: **MSD_15_140722A** Prep Date: **07/22/2014 13:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14072204.D** Batch ID: **MS15W0722B** Analysis Date: **07/22/2014 12:32**

Sample ID: **GLCS MS15W0722B** Units : **µg/L** Run ID: **MSD_15_140722A** Prep Date: **07/22/2014 12:32**

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

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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 Batch ID: MS15W0722A Analysis Date: 07/22/2014 13:26

Sample ID: MBLK MS15W0722A Units : µg/L Run ID: MSD_15_140722A Prep Date: 07/22/2014 13:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	ND	0.5								
o-Xylene	ND	0.5								
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 LCS Test Code: EPA Method SW8260B

File ID: 14072202.D Batch ID: MS15W0722A Analysis Date: 07/22/2014 11:35

Sample ID: LCS MS15W0722A Units : µg/L Run ID: MSD_15_140722A Prep Date: 07/22/2014 11:35

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	9.21	0.5	10		92	65	139			
o-Xylene	8.67	0.5	10		87	70	130			
Surr: 1,2-Dichloroethane-d4	8.85		10		89	70	130			
Surr: Toluene-d8	9.4		10		94	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: 14072220.D Batch ID: MS15W0722A Analysis Date: 07/22/2014 18:45

Sample ID: 14071611-02AMS Units : µg/L Run ID: MSD_15_140722A Prep Date: 07/22/2014 18:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	48.5	1.3	50	0	97	56	140			
Benzene	56.9	1.3	50	0	114	67	134			
Toluene	42.5	1.3	50	0	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	42.9	1.3	50	0	86	69	130			
Surr: 1,2-Dichloroethane-d4	53		50		106	70	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 Test Code: EPA Method SW8260B

File ID: 14072221.D Batch ID: MS15W0722A Analysis Date: 07/22/2014 19:07

Sample ID: 14071611-02AMSD Units : µg/L Run ID: MSD_15_140722A Prep Date: 07/22/2014 19:07

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	0	114	67	134	56.92	0.3(21)	
Toluene	42.2	1.3	50	0	84	38	130	42.48	0.7(20)	
Ethylbenzene	40.9	1.3	50	0	82	70	130	41.18	0.8(20)	
m,p-Xylene	45.1	1.3	50	0	90	65	139	45.01	0.3(20)	
o-Xylene	42.6	1.3	50	0	85	69	130	42.87	0.6(20)	
Surr: 1,2-Dichloroethane-d4	52.7		50		105	70	130			
Surr: Toluene-d8	44		50		88	70	130			
Surr: 4-Bromofluorobenzene	49.8		50		99.6	70	130			

Alpha Analytical, Inc.

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.

CALIFORNIA LABORATORY SERVICES

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,

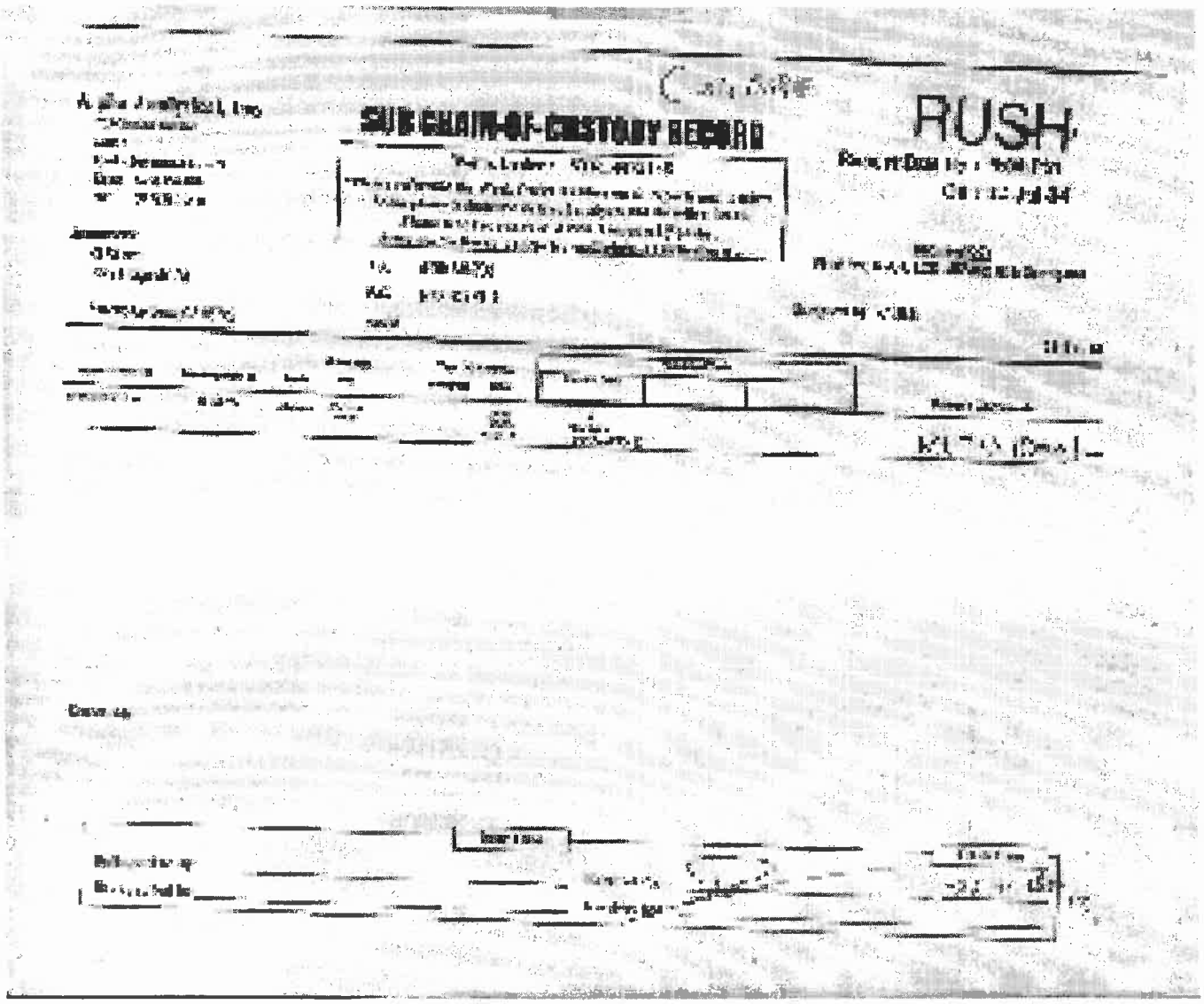
James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

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 #:



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	

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 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 & Analyzed: 07/22/14						
Cyanide (total)	0.0852	0.0050	mg/L	0.100		85	75-125	3	25	
Matrix Spike (CX05002-MS1)		Source: CXG0642-01		Prepared & Analyzed: 07/22/14						
Cyanide (total)	0.0835	0.0050	mg/L	0.100	ND	84	75-125			
Matrix Spike Dup (CX05002-MSD1)		Source: CXG0642-01		Prepared & Analyzed: 07/22/14						
Cyanide (total)	0.0850	0.0050	mg/L	0.100	ND	85	75-125	2	25	

CALIFORNIA LABORATORY SERVICES

07/22/14 12:26

Alpha Analytical, Inc.-Sparks	Project: STR14072145	
255 Glendale Ave.; Suite 21	Project Number: STR14072145	**CLS Work Order #: CXG0893**
Sparks, NV 89431	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
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

RUSH

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

WorkOrder : STR14072145

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

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

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

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

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 245_1_W	CYANIDE_TOTAL_W	METALS_DW	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:		ARIANNA CHACON	Alpha Analytical, Inc.	7/22/14 1028

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: Stratus
Attn: Debbie
Address: 3330 Cameron Pk Dr
City, State, Zip: Cameron Pk
Phone Number: 5306766004 Fax: 5306766005

Alpha Analytical, Inc.

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 Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848

16592

Page # 1 of 1

Consultant/ Client Info:
Company: Stratus
Address:
City, State, Zip:

Job and Purchase Order Info:
Job #
Job Name: Olympic
P.O. #:

Report Attention/Project Manager:
Name: Trevor
Email Address:
Phone #:
Cell #:

QC Deliverable Info:
EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	GRO, TPH	Btex	MTBE	Lead 200.8	metals 200.8	SM4500 CN E cyanide	Phenols 420.1				Remarks: metals
0743	7/21/14	AQ		INF W Oly	48	8		X	X	X	X	X	X	X	X				As, Cd, Cu
0754				GAC1 W Oly	STD	3		X	X	X	X								Hg, Ni, Se
0747				GAC2 W Oly	STD	3		X	X	X	X								Hg, Cr, Zn
0900		AQ		EFF W Oly	24	8		X	X	X	X	X	X	X	X				

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: C HILL

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Chad Stratus	7-21-14	1120	Mensscat	7-21-14	1120
			[signature]	7/22/14	1009

* 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. 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.

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Debbie Barr
Phone: (530) 676-6000
Fax: (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**					
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 µg/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.

ACCREDITED DoD ELAP

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.

NELAP ACCREDITED LABORATORY

8/1/14
Report Date

Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: STR14072940 **Job:** Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14072940-01A	EFF W Oly	Aqueous	2

7/30/14

Report Date

CALIFORNIA LABORATORY SERVICES

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

CALIFORNIA LABORATORY SERVICES

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 #:

CXG1161

Alpha Analytical, Inc.
255 Glendale Avenue
Suite 21
Sparks, Nevada 89431-5778
Phone: (775) 355-1044
Fax: (775) 355-0436

SUB CHAIN-OF-CUSTODY RECORD

Work Order : STR14072940

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

AMENDED

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

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

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

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

Sampled by : C. Hill

01-Aug-14

Alpha's Sample ID	Client's Sample ID	Matrix	Collection Date	Type (#) of Bottles Preserved	Type (#) of Bottles Other	Requested Tests: EPA Method 420			Sample Comments
STR14072940-01A	[illegible]	Aqueous	07/28/14 [illegible]		1L HDPE [illegible]	[illegible]			

Comments: Amended in order to change sample [illegible].

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:		Received by:	

08/01/14 09:33

CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks	Project: STR14072940	
255 Glendale Ave.; Suite 21	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) (CXG1161-01) Aqueous		**Sampled: 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	

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 & Analyzed: 07/29/14						
Phenolics	ND	0.010	mg/L							
LCS (CX05179-BS1)				Prepared & Analyzed: 07/29/14						
Phenolics	0.214	0.010	mg/L	0.200		107	80-120			
LCS Dup (CX05179-BSD1)				Prepared & Analyzed: 07/29/14						
Phenolics	0.213	0.010	mg/L	0.200		106	80-120	0.7	25	
Matrix Spike (CX05179-MS1)		**Source: CXG1010-01**		Prepared & Analyzed: 07/29/14						
Phenolics	0.204	0.010	mg/L	0.200	0.00810	98	75-125			
Matrix Spike Dup (CX05179-MSD1)		**Source: CXG1010-01**		Prepared & Analyzed: 07/29/14						
Phenolics	0.204	0.010	mg/L	0.200	0.00810	98	75-125	0	30	

Alpha Analytical, Inc.-Sparks	Project: STR14072940	
255 Glendale Ave.; Suite 21	Project Number: STR14072940	**CLS Work Order #: CXG1161**
Sparks, NV 89431	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
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

AMENDED

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR14072940

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

Report Attention	Phone Number	EMail Address
Debbie Barr	(530) 676-6000 x	dbarr@stratusinc.net

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 # : 16332 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
3 °C	29-Jul-14	01-Aug-14

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests: PHENOLS_SIM_W	TPH/P_W	VOC_W						Sample Remarks
STR14072940-01A	EFF W Oly	AQ	07/29/14 05:55	3	2	1	Pentachlorophenol/2,3,4,6-Tetrachlorophenol	GAS-C	BTXE/M_C						

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:		ARIADNA CHACON	Alpha Analytical, Inc.	8/01/14 0800

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

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

RUSH

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

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

Report Attention	Phone Number	EMail Address
Debbie Barr	(530) 676-6000 x	dbarr@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

PO :

Client's COC # : 16332 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
3 °C	29-Jul-14	30-Jul-14

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests: PHENOLS_SIM_W	TPH/P_W	VOC_W						Sample Remarks
STR14072940-01A	EFF W Oly	AQ	07/24/14 05:55	3	2	1	Pentachlorophenol/2,3,4,6-Tetrachlorophenol	GAS-C	BTXE/M_C						

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. :

	Signature	Print Name	Company	Date/Time
Logged in by:		ARIADNA CHACON	Alpha Analytical, Inc.	7/30/14 0947

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: Stratus
Attn: Debbie
Address: 3330 Cameron Park Dr
City, State, Zip: Cameron Pk
Phone Number: 5302766004 Fax: 5302766005

Alpha Analytical, Inc.

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 Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848

16332

Page # 1 of 1

Consultant/Client Info:

Company: Stratus
Address:
City, State, Zip:

Job and Purchase Order Info:

Job #
Job Name: Olympic Station
P.O. #:

Report Attention/Project Manager:

Name: Debbie
Email Address:
Phone #:
Cell #:

QC Deliverable Info:

EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	GRO	BTEX	MTBE	Phenols 420.1							Remarks
0535	7/29/14	AQ	STR1072940-01A	EFF W Oly	24	5		X	X	X	X	X							

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: GMLL

Relinquished by: (Signature/Affiliation)	Date:	Time:	Received by: (Signature/Affiliation)	Date:	Time:
Stratus	7.29.14	0834	E. Fregiano	072914	0834
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date: 7/30/14	Time: 0943
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received 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. 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.

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: 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 :	**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.

ACLASS ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

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

8/21/14
Report Date

Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: STR14081941 **Job:** Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14081941-01A	INF W Oly	Aqueous	2

8/21/14

Report Date

Alpha Analytical, Inc.

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

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

Date: 25-Aug-14

QC Summary Report

Work Order: 14081941

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\140820\14082009.D** Batch ID: **MS10W0820B** Analysis Date: **08/20/2014 14:29**

Sample ID: **MBLK MS10W0820B** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 14:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	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** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\140820\14082008.D** Batch ID: **MS10W0820B** Analysis Date: **08/20/2014 14:08**

Sample ID: **GLCS MS10W0820B** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 14:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\140820\14082020.D** Batch ID: **MS10W0820B** Analysis Date: **08/20/2014 18:36**

Sample ID: **14081941-01AGS** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 18:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\140820\14082021.D** Batch ID: **MS10W0820B** Analysis Date: **08/20/2014 18:57**

Sample ID: **14081941-01AGSD** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 18:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	5850	250	4000	174.9	142	54	143	6618	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.

Alpha Analytical, Inc.

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

Method Blank

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

File ID: **C:\HPCHEM\MS10\DATA\140820\14082009.D** Batch ID: **MS10W0820A** Analysis Date: **08/20/2014 14:29**

Sample ID: **MBLK MS10W0820A** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 14:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	ND	0.5								
o-Xylene	ND	0.5								
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** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\140820\14082007.D** Batch ID: **MS10W0820A** Analysis Date: **08/20/2014 13:26**

Sample ID: **LCS MS10W0820A** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 13:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	10		100	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	11.1	0.5	10		111	65	139			
o-Xylene	10.9	0.5	10		109	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	11.2		10		112	70	130			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS10\DATA\140820\14082018.D** Batch ID: **MS10W0820A** Analysis Date: **08/20/2014 17:54**

Sample ID: **14081941-01AMS** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 17:54**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	50	0	109	38	130			
Ethylbenzene	59.2	1.3	50	0.97	117	70	130			
m,p-Xylene	60.6	1.3	50	0	121	65	139			
o-Xylene	59.6	1.3	50	0	119	69	130			
Surr: 1,2-Dichloroethane-d4	63.3		50		127	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	51.1		50		102	70	130			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS10\DATA\140820\14082019.D** Batch ID: **MS10W0820A** Analysis Date: **08/20/2014 18:15**

Sample ID: **14081941-01AMSD** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 18:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	120	1.3	50	39.41	162	56	140	126.1	4.7(40)	M1
Benzene	57.1	1.3	50	3.35	107	67	134	59.89	4.8(21)	
Toluene	51.5	1.3	50	0	103	38	130	54.45	5.6(20)	
Ethylbenzene	54.6	1.3	50	0.97	107	70	130	59.23	8.2(20)	
m,p-Xylene	56.7	1.3	50	0	113	65	139	60.55	6.6(20)	
o-Xylene	54.4	1.3	50	0	109	69	130	59.63	9.2(20)	
Surr: 1,2-Dichloroethane-d4	62.1		50		124	70	130			
Surr: Toluene-d8	48.6		50		97	70	130			
Surr: 4-Bromofluorobenzene	55.5		50		111	70	130			

Alpha Analytical, Inc.

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 :

CHAIN-OF-CUSTODY RECORD

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

CA RUSH

WorkOrder : STR14081941

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

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

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 # : 16335 Job : Olympic Station

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

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 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 work orders due to different TAT. 48hr TAT. ;

	Signature	Print Name	Company	Date/Time
Logged in by:		ARIADNA CHACON	Alpha Analytical, Inc.	8/19/14 0941

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: Stantec
Attn: Debbie
Address: 3338 Cameron Park Dr #12
City, State, Zip: Cameron Park CA
Phone Number: 530 672 4004 Fax: 530 672 4005

Alpha Analytical, Inc.

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 Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-388-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848

16335

Page # 1 of 1

Consultant/ Client Info:

Company: Stantec
Address:
City, State, Zip:

Job and Purchase Order Info:

Job #
Job Name: Olympic Station
P.O. #:

Report Attention/Project Manager:

Name: Trevor
Email Address:
Phone #:
Cell #:

QC Deliverable Info:

EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	TPH SW8015	BTEX 8260	MTBE 8260	Remarks
0715	8/14	AQ		INF W Oly	72	4-V		X	X	X	X	
0710				GAC1 W Oly	STD	4-V		X	X	X	X	
0705				GAC2 W Oly	STD	4-V		X	X	X	X	
0700		AQ		EFF W Oly	24	4-V		X	X	X	X	

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: SHILC

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Shilc Stranker	8-18-14	1100	Meyssa T	8-18-14	1100
				8/19/14	0926

* 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. 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.

Alpha Analytical, Inc.

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(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 Limit	Date Extracted	Date Analyzed
Client ID :	**GAC1 W Oly**					
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 ACCREDITED DoD ELAP

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.

8/26/14
Report Date

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

VOC Sample Preservation Report

Work Order: STR14081942 **Job:** Olympic Station

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

8/26/14
Report Date

Alpha Analytical, Inc.

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

Date: 26-Aug-14

QC Summary Report

Work Order: 14081942

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\140820\14082009.D** Batch ID: **MS10W0820B** Analysis Date: **08/20/2014 14:29**

Sample ID: **MBLK MS10W0820B** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 14:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	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** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\140820\14082008.D** Batch ID: **MS10W0820B** Analysis Date: **08/20/2014 14:08**

Sample ID: **GLCS MS10W0820B** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 14:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\140820\14082020.D** Batch ID: **MS10W0820B** Analysis Date: **08/20/2014 18:36**

Sample ID: **14081941-01AGS** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 18:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\140820\14082021.D** Batch ID: **MS10W0820B** Analysis Date: **08/20/2014 18:57**

Sample ID: **14081941-01AGSD** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 18:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	5850	250	4000	174.9	142	54	143	6618	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,

Alpha Analytical, Inc.

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

Method Blank

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

File ID: **C:\HPCHEM\MS10\DATA\140820\14082009.D** Batch ID: **MS10W0820A** Analysis Date: **08/20/2014 14:29**

Sample ID: **MBLK MS10W0820A** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 14:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	ND	0.5								
o-Xylene	ND	0.5								
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** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\140820\14082007.D** Batch ID: **MS10W0820A** Analysis Date: **08/20/2014 13:26**

Sample ID: **LCS MS10W0820A** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 13:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	10		100	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	11.1	0.5	10		111	65	139			
o-Xylene	10.9	0.5	10		109	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	11.2		10		112	70	130			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS10\DATA\140820\14082018.D** Batch ID: **MS10W0820A** Analysis Date: **08/20/2014 17:54**

Sample ID: **14081941-01AMS** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 17:54**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	50	0	109	38	130			
Ethylbenzene	59.2	1.3	50	0.97	117	70	130			
m,p-Xylene	60.6	1.3	50	0	121	65	139			
o-Xylene	59.6	1.3	50	0	119	69	130			
Surr: 1,2-Dichloroethane-d4	63.3		50		127	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	51.1		50		102	70	130			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS10\DATA\140820\14082019.D** Batch ID: **MS10W0820A** Analysis Date: **08/20/2014 18:15**

Sample ID: **14081941-01AMSD** Units : **µg/L** Run ID: **MSD_10_140820A** Prep Date: **08/20/2014 18:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	120	1.3	50	39.41	162	56	140	126.1	4.7(40)	M1
Benzene	57.1	1.3	50	3.35	107	67	134	59.89	4.8(21)	
Toluene	51.5	1.3	50	0	103	38	130	54.45	5.6(20)	
Ethylbenzene	54.6	1.3	50	0.97	107	70	130	59.23	8.2(20)	
m,p-Xylene	56.7	1.3	50	0	113	65	139	60.55	6.6(20)	
o-Xylene	54.4	1.3	50	0	109	69	130	59.63	9.2(20)	
Surr: 1,2-Dichloroethane-d4	62.1		50		124	70	130			
Surr: Toluene-d8	48.6		50		97	70	130			
Surr: 4-Bromofluorobenzene	55.5		50		111	70	130			

Alpha Analytical, Inc.

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

CA

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

WorkOrder : STR14081942

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

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

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

PO :

Client's COC # : 16335 Job : Olympic Station

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	No. of Bottles Sub	TAT	Requested Tests: TPH/P_W	VOC_W							Sample Remarks
STR14081942-01A	GAC1 W Oly	AQ	08/18/14 07:10	4	0	5	GAS-C	BTXE/M_C							
STR14081942-02A	GAC2 W Oly	AQ	08/18/14 07:05	4	0	5	GAS-C	BTXE/M_C							

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

	Signature	Print Name	Company	Date/Time
Logged in by:	[signature]	Alvaro Chacon	Alpha Analytical, Inc.	8/19/14 0954

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: Stratus

Attn: Debbie

Address: 3330 Cameron Pk DR

City, State, Zip: Cameron Pk CA

Phone Number: 5306762004 Fax: 5306762005

Alpha Analytical, Inc.

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 Phone: 916-366-9089

Southern CA: 1007 E Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901

Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 Phone: 775-388-7043

Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848

16335

Page # 1 of 1

Consultant/ Client Info:

Company: Stratus

Address:

City, State, Zip:

Job and Purchase Order Info:

Job #

Job Name: Olympic Station

P.O. #:

Report Attention/Project Manager:

Name: Trevor

Email Address:

Phone #:

Cell #:

QC Deliverable Info:

EDD Required? Yes / No EDF Required? Yes / No

Global ID.

Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA circled) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	TPH 8015B	Btex 8260	MTBE 8260								Remarks
0715	8/18/14	AQ		INF W Oly	72	4-V		X	X	X	X								
0710	)	)	STR1408194Z-01	GAC1 W Oly	STD	4-V		X	X	X	X								
0705	)	)	STR1408194Z-02	GAC2 W Oly	STD	4-V		X	X	X	X								
0700	(	AQ		EFF W Oly	24	4-V		X	X	X	X								

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: GHILL

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature] Stratus	8-18-14	1100	Melissa T	8-18-14	1100
			[signature]	8/19/14	0926

* 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. 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.

Alpha Analytical, Inc.

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(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 Limit	Date Extracted	Date 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 µg/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.

ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

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

8/19/14
Report Date

Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: STR14081940 **Job:** Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14081940-01A	EFF W Oly	Aqueous	2

8/19/14

Report Date

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

PUSH

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

WorkOrder : STR14081940

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

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 # : 16335 Job : Olympic Station

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

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 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. ;

	Signature	Print Name	Company	Date/Time
Logged in by:		ARIAD NA CHACON	Alpha Analytical, Inc.	8/19/14 0933

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: Stantec
Attn: Debbie
Address: 3330 Cameron Park Dr
City, State, Zip: Cameron Park CA
Phone Number: 530 672 4004 Fax: 530 672 4005

Alpha Analytical, Inc.

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 — Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 — Phone: 714-386-2901
Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801 — Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 — Phone: 702-281-4848

16335

Page # 1 of 1

Consultant/ Client Info:

Company: Stantec
Address:
City, State, Zip:

Job and Purchase Order Info:

Job #
Job Name: Olympic Station
P.O. #:

Report Attention/Project Manager:

Name: Trevor
Email Address:
Phone #:
Cell #:

QC Deliverable Info:

EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	TPH SW8015	BTEX 8260	MTBE 8260	Remarks
0715	8/18	AQ		INF W Oly	72	4-V		X	X	X	X	
0718	"	"		GAC1 W Oly	STD	4-V		X	X	X	X	
0720	"	"		GAC2 W Oly	STD	4-V		X	X	X	X	
0700	"	AQ	STL14061940-01A	EFF W Oly	24	4-V		X	X	X	X	

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: CHILC

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Stantec	8-18-14	1100	Melissa T	8-18-14	1100
				8/19/14	0926

* 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. 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.

Alpha Analytical, Inc.

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(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 Analyzed
Client ID :	**Oly W INF**					
Lab ID :	STR14090941-01A	TPH-P (GRO)	ND	50 µg/L	09/11/14	09/11/14
Date Sampled	09/08/14 07:55	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.

ACLASS ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

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

9/11/14
Report Date

Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: STR14090941 **Job:** Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14090941-01A	Oly W INF	Aqueous	2

9/11/14

Report Date

Alpha Analytical, Inc.

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

Date: *15-Sep-14*

QC Summary Report

Work Order: 14090941

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091105.D** Batch ID: **MS09W0911B** Analysis Date: **09/11/2014 13:14**

Sample ID: **MBLK MS09W0911B** Units : **µg/L** Run ID: **MSD_09_140911A** Prep Date: **09/11/2014 13:14**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	7.7		10		77	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	9.54		10		95	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091103.D** Batch ID: **MS09W0911B** Analysis Date: **09/11/2014 11:34**

Sample ID: **GLCS MS09W0911B** Units : **µg/L** Run ID: **MSD_09_140911A** Prep Date: **09/11/2014 11:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	428	50	400		107	70	130			
Surr: 1,2-Dichloroethane-d4	8.3		10		83	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.8		10		98	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091120.D** Batch ID: **MS09W0911B** Analysis Date: **09/11/2014 19:32**

Sample ID: **14090941-01AGS** Units : **µg/L** Run ID: **MSD_09_140911A** Prep Date: **09/11/2014 19:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1850	250	2000	0	93	54	143			
Surr: 1,2-Dichloroethane-d4	41.5		50		83	70	130			
Surr: Toluene-d8	50.8		50		102	70	130			
Surr: 4-Bromofluorobenzene	48.9		50		98	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091121.D** Batch ID: **MS09W0911B** Analysis Date: **09/11/2014 19:56**

Sample ID: **14090941-01AGSD** Units : **µg/L** Run ID: **MSD_09_140911A** Prep Date: **09/11/2014 19:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1880	250	2000	0	94	54	143	1854	1.2(23)	
Surr: 1,2-Dichloroethane-d4	38.9		50		78	70	130			
Surr: Toluene-d8	50.9		50		102	70	130			
Surr: 4-Bromofluorobenzene	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.

Alpha Analytical, Inc.

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 Summary Report

Work Order: 14090941

Method Blank

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

File ID: **14091105.D** Batch ID: **MS09W0911A** Analysis Date: **09/11/2014 13:14**

Sample ID: **MBLK MS09W0911A** Units : **µg/L** Run ID: **MSD_09_140911A** Prep Date: **09/11/2014 13:14**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	7.7		10		77	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	9.54		10		95	70	130			

Laboratory Control Spike

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

File ID: **14091104.D** Batch ID: **MS09W0911A** Analysis Date: **09/11/2014 12:45**

Sample ID: **LCS MS09W0911A** Units : **µg/L** Run ID: **MSD_09_140911A** Prep Date: **09/11/2014 12:45**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	9.71	0.5	10		97	80	120			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	9.78	0.5	10		98	65	139			
o-Xylene	8.94	0.5	10		89	70	130			
Surr: 1,2-Dichloroethane-d4	6.93		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 **MS** Test Code: **EPA Method SW8260B**

File ID: **14091118.D** Batch ID: **MS09W0911A** Analysis Date: **09/11/2014 18:45**

Sample ID: **14090941-01AMS** Units : **µg/L** Run ID: **MSD_09_140911A** Prep Date: **09/11/2014 18:45**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	65.6	1.3	50	12.49	106	56	140			
Benzene	50.6	1.3	50	0.89	100	67	134			
Toluene	49.1	1.3	50	0	98	38	130			
Ethylbenzene	52.9	1.3	50	0	106	70	130			
m,p-Xylene	49.5	1.3	50	0	99	65	139			
o-Xylene	47.3	1.3	50	0	95	69	130			
Surr: 1,2-Dichloroethane-d4	43.4		50		87	70	130			
Surr: Toluene-d8	48.4		50		97	70	130			
Surr: 4-Bromofluorobenzene	45.2		50		90	70	130			

Sample Matrix Spike Duplicate

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

File ID: **14091119.D** Batch ID: **MS09W0911A** Analysis Date: **09/11/2014 19:08**

Sample ID: **14090941-01AMSD** Units : **µg/L** Run ID: **MSD_09_140911A** Prep Date: **09/11/2014 19:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	72.8	1.3	50	12.49	121	56	140	65.55	10.5(40)	
Benzene	57.7	1.3	50	0.89	114	67	134	50.64	13.1(21)	
Toluene	55.9	1.3	50	0	112	38	130	49.09	13.0(20)	
Ethylbenzene	59.5	1.3	50	0	119	70	130	52.87	11.8(20)	
m,p-Xylene	55.4	1.3	50	0	111	65	139	49.53	11.3(20)	
o-Xylene	53.3	1.3	50	0	107	69	130	47.3	11.9(20)	
Surr: 1,2-Dichloroethane-d4	41.5		50		83	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	45		50		90	70	130			

Alpha Analytical, Inc.

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 Summary Report

Work Order: 14090941

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.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA RUSH

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

WorkOrder : STR14090941

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

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

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

EDD Required : Yes

Sampled by : C. Hill

PO :

Client's COC # : 16338 Job : Olympic

Cooler Temp	Samples Received	Date Printed
2 °C	09-Sep-14	09-Sep-14

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_W	VOC_W							Sample Remarks
STR14090941-01A	Oly W INF	AQ	09/08/14 07:55	4	0	2	GAS-C	BTXE/M_C							

Comments: 48hr TAT. 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:		ARIADNA CHACON	Alpha Analytical, Inc.	9/09/14 1017

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: Stratus
Attn: Debbie
Address: 3330 Cameron Pk
City, State, Zip: Cameron Pk
Phone Number: 530 676 6004 Fax: 530 676 6005

Alpha Analytical, Inc.

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 — Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 — Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 — Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 — Phone: 702-281-4848

16338

Page # 1 of 1

Consultant/ Client Info:
Company: Stratus
Address:
City, State, Zip:

Job and Purchase Order Info:
Job #
Job Name: Olympic
P.O. #:

Report Attention/Project Manager:
Name: Trevor
Email Address:
Phone #:
Cell #:

QC Deliverable Info:
EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA circled) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	TPH	BTEX	MTBE								Remarks
0755	9,9	AQ	STR14090941-01A	Oly W INF	72	4		X	X	X	X								
0750	)	)		Oly W GAC 1	STD	4		X	X	X	X								
0745	)	)		Oly W GAC 2	STD	4		X	X	X	X								
0740	9,8	AQ		Oly W EFF	24	4		X	X	X	X								

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: CHILL

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature] Stratus	9-8-14	1130	Melissa T	9-8-14	1130
			[signature]	9-09-14	1029

* 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. 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.

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: 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.

ACCREDITED
DoD ELAP

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.

9/16/14
Report Date

Alpha Analytical, Inc.

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

VOC Sample Preservation Report

Work Order: STR14090942 **Job:** Olympic

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

9/16/14
Report Date

Alpha Analytical, Inc.

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

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

Date: *16-Sep-14*

QC Summary Report

Work Order: 14090942

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091504.D** Batch ID: **MS09W0915B** Analysis Date: **09/15/2014 10:42**

Sample ID: **MBLK MS09W0915B** Units : **µg/L** Run ID: **MSD_09_140915A** Prep Date: **09/15/2014 10:42**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
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 **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091503.D** Batch ID: **MS09W0915B** Analysis Date: **09/15/2014 10:14**

Sample ID: **GLCS MS09W0915B** Units : **µg/L** Run ID: **MSD_09_140915A** Prep Date: **09/15/2014 10:14**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	9.68		10		97	70	130			
Surr: 4-Bromofluorobenzene	9.72		10		97	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091516.D** Batch ID: **MS09W0915B** Analysis Date: **09/15/2014 16:03**

Sample ID: **14090942-01AGS** Units : **µg/L** Run ID: **MSD_09_140915A** Prep Date: **09/15/2014 16:03**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2230	250	2000	0	111	54	143			
Surr: 1,2-Dichloroethane-d4	44.9		50		90	70	130			
Surr: Toluene-d8	48.4		50		97	70	130			
Surr: 4-Bromofluorobenzene	48.2		50		96	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091517.D** Batch ID: **MS09W0915B** Analysis Date: **09/15/2014 16:27**

Sample ID: **14090942-01AGSD** Units : **µg/L** Run ID: **MSD_09_140915A** Prep Date: **09/15/2014 16:27**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2200	250	2000	0	110	54	143	2226	1.2(23)	
Surr: 1,2-Dichloroethane-d4	42.8		50		86	70	130			
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.

Alpha Analytical, Inc.

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

Method Blank

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

File ID: **14091504.D** Batch ID: **MS09W0915A** Analysis Date: **09/15/2014 10:42**

Sample ID: **MBLK MS09W0915A** Units : **µg/L** Run ID: **MSD_09_140915A** Prep Date: **09/15/2014 10:42**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	ND	0.5								
o-Xylene	ND	0.5								
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 **LCS** Test Code: **EPA Method SW8260B**

File ID: **14091502.D** Batch ID: **MS09W0915A** Analysis Date: **09/15/2014 09:50**

Sample ID: **LCS MS09W0915A** Units : **µg/L** Run ID: **MSD_09_140915A** Prep Date: **09/15/2014 09:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	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	8.88		10		89	70	130			
Surr: Toluene-d8	9.54		10		95	70	130			
Surr: 4-Bromofluorobenzene	8.93		10		89	70	130			

Sample Matrix Spike

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

File ID: **14091514.D** Batch ID: **MS09W0915A** Analysis Date: **09/15/2014 15:15**

Sample ID: **14090445-01AMS** Units : **µg/L** Run ID: **MSD_09_140915A** Prep Date: **09/15/2014 15:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	62.5	1.3	50	0	125	56	140			
Benzene	60.6	1.3	50	0	121	67	134			
Toluene	55.3	1.3	50	0	111	38	130			
Ethylbenzene	61.5	1.3	50	0	123	70	130			
m,p-Xylene	57.1	1.3	50	0	114	65	139			
o-Xylene	54.2	1.3	50	0	108	69	130			
Surr: 1,2-Dichloroethane-d4	49.5		50		99	70	130			
Surr: Toluene-d8	45		50		90	70	130			
Surr: 4-Bromofluorobenzene	43.1		50		86	70	130			

Sample Matrix Spike Duplicate

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

File ID: **14091515.D** Batch ID: **MS09W0915A** Analysis Date: **09/15/2014 15:39**

Sample ID: **14090445-01AMSD** Units : **µg/L** Run ID: **MSD_09_140915A** Prep Date: **09/15/2014 15:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	63.7	1.3	50	0	127	56	140	62.49	1.9(40)	
Benzene	62.3	1.3	50	0	125	67	134	60.61	2.8(21)	
Toluene	57.5	1.3	50	0	115	38	130	55.34	3.8(20)	
Ethylbenzene	63.2	1.3	50	0	126	70	130	61.53	2.6(20)	
m,p-Xylene	58.5	1.3	50	0	117	65	139	57.13	2.3(20)	
o-Xylene	0.54	1.3	50	0	1.1	69	130	54.21	196.0(20)	M2 R58
Surr: 1,2-Dichloroethane-d4	46.4		50		93	70	130			
Surr: Toluene-d8	45.8		50		92	70	130			
Surr: 4-Bromofluorobenzene	43.4		50		87	70	130			

Alpha Analytical, Inc.

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

CA

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

WorkOrder : STR14090942

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

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

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 # : 16338 Job : Olympic

Cooler Temp	Samples Received	Date Printed
2 °C	09-Sep-14	09-Sep-14

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests 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							

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:		ARIANA CHACON	Alpha Analytical, Inc.	9/9/14 1059

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: Stratus
Attn: Debbie
Address: 3330 Cameron Pk
City, State, Zip: Cameron Pk
Phone Number: 530 676 6004 Fax: 530 676 6005

Alpha Analytical, Inc.

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 — Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 — Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 — Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 — Phone: 702-281-4848

16338

Page # 1 of 1

Consultant/ Client Info:
Company: Stratus
Address:
City, State, Zip:

Job and Purchase Order Info:
Job #
Job Name: Olympic
P.O. #:

Report Attention/Project Manager:
Name: Trevor
Email Address:
Phone #:
Cell #:

QC Deliverable Info:
EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	TPH	BTEX	MTBE								Remarks
0755	9,8,14	AQ		Oly W INF	72	4		X	X	X	X								
0750	)	)	STR1409042-0[illegible]	Oly W GAC 1	STD	4		)	X	X	X								
0745	)	)	STR1409042-02A	Oly W GAC 2	STD	4		X	X	X	X								
0740	9,8,14	AQ		Oly W EFF	24	4		X	X	X	X								

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: CHILL

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Chr Hill Stratus	9-8-14	1130	Melissa T	9-8-14	1130
			[signature]	9-9-14	1029

* 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. 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.

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: 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.

ACCREDITED DoD ELAP

Roger Scholl Randy Gardner Walter Hinchman

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

9/10/14
Report Date

Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: STR14090940 **Job:** Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14090940-01A	Oly W EFF	Aqueous	2

9/10/14

Report Date

Alpha Analytical, Inc.

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

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

Date: *12-Sep-14*

QC Summary Report

Work Order: 14090940

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091006.D** Batch ID: **MS09W0910B** Analysis Date: **09/10/2014 16:10**

Sample ID: **MBLK MS09W0910B** Units : **µg/L** Run ID: **MSD_09_140910A** Prep Date: **09/10/2014 16:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091005.D** Batch ID: **MS09W0910B** Analysis Date: **09/10/2014 15:42**

Sample ID: **GLCS MS09W0910B** Units : **µg/L** Run ID: **MSD_09_140910A** Prep Date: **09/10/2014 15:42**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091020.D** Batch ID: **MS09W0910B** Analysis Date: **09/10/2014 21:43**

Sample ID: **14090940-01AGS** Units : **µg/L** Run ID: **MSD_09_140910A** Prep Date: **09/10/2014 21:43**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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 **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: **14091021.D** Batch ID: **MS09W0910B** Analysis Date: **09/10/2014 22:07**

Sample ID: **14090940-01AGSD** Units : **µg/L** Run ID: **MSD_09_140910A** Prep Date: **09/10/2014 22:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2050	250	2000	0	102	54	143	1714	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.

Alpha Analytical, Inc.

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 Summary Report

Work Order: 14090940

Method Blank

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

File ID: **14091006.D** Batch ID: **MS09W0910A** Analysis Date: **09/10/2014 16:10**

Sample ID: **MBLK MS09W0910A** Units : µg/L Run ID: **MSD_09_140910A** Prep Date: **09/10/2014 16:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	ND	0.5								
o-Xylene	ND	0.5								
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 **LCS** Test Code: **EPA Method SW8260B**

File ID: **14091004.D** Batch ID: **MS09W0910A** Analysis Date: **09/10/2014 15:18**

Sample ID: **LCS MS09W0910A** Units : µg/L Run ID: **MSD_09_140910A** Prep Date: **09/10/2014 15:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	8.46	0.5	10		85	65	139			
o-Xylene	7.9	0.5	10		79	70	130			
Surr: 1,2-Dichloroethane-d4	8.63		10		86	70	130			
Surr: Toluene-d8	9.77		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.57		10		96	70	130			

Sample Matrix Spike

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

File ID: **14091018.D** Batch ID: **MS09W0910A** Analysis Date: **09/10/2014 20:55**

Sample ID: **14090940-01AMS** Units : µg/L Run ID: **MSD_09_140910A** Prep Date: **09/10/2014 20:55**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	56.6	1.3	50	0	113	56	140			
Benzene	54.6	1.3	50	0	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	53.9	1.3	50	0	108	65	139			
o-Xylene	51.9	1.3	50	0	104	69	130			
Surr: 1,2-Dichloroethane-d4	41.3		50		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 **MSD** Test Code: **EPA Method SW8260B**

File ID: **14091019.D** Batch ID: **MS09W0910A** Analysis Date: **09/10/2014 21:19**

Sample ID: **14090940-01AMSD** Units : µg/L Run ID: **MSD_09_140910A** Prep Date: **09/10/2014 21:19**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%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	6.2(21)	
Toluene	58	1.3	50	0	116	38	130	54.68	5.9(20)	
Ethylbenzene	61.3	1.3	50	0	123	70	130	57.52	6.3(20)	
m,p-Xylene	57.5	1.3	50	0	115	65	139	53.91	6.5(20)	
o-Xylene	55.1	1.3	50	0	110	69	130	51.93	5.9(20)	
Surr: 1,2-Dichloroethane-d4	41		50		82	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	45.1		50		90	70	130			

Alpha Analytical, Inc.

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Date: *12-Sep-14*

QC Summary Report

Work Order: 14090940

Comments:

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

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA RUSH

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

WorkOrder : STR14090940

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

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

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 # : 16338 Job : Olympic

Cooler Temp	Samples Received	Date Printed
2 °C	09-Sep-14	09-Sep-14

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/P_W	VOC_W							Sample Remarks
STR14090940-01A	Oly W EFF	AQ	09/08/14 07:40	4	0	1	GAS-C	BTXE/M_C							

Comments: 24hr TAT. 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:		RAIMUNA CHACON	Alpha Analytical, Inc.	9/09/14 1041

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: Stantec
Attn: Debbie
Address: 3330 Cameron Pk
City, State, Zip: Cameron Pk
Phone Number: 530 672 6814 Fax: 530 672 6005

Alpha Analytical, Inc.
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 Phone: 916-366-9089
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901
Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801 Phone: 775-388-7043
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848

16338

Page # 1 of 1

Consultant/ Client Info:
Company: Stantec
Address:
City, State, Zip:

Job and Purchase Order Info:
Job #
Job Name: Olympic
P.O. #:

Report Attention/Project Manager:
Name: Trevor
Email Address:
Phone #:
Cell #:

QC Deliverable Info:
EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR (CA) KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered? Yes	Field Filtered? No	TPH	BTEX	MTBE	Remarks
0750	9/8	AQ		Oly W INF	72	4		X	X	X	X	
0750	"	"		Oly W GAC 1	STD	4		X	X	X	X	
0745	"	"		Oly W GAC 2	STD	4		X	X	X	X	
0740	9/8	AQ	STR140940-01A	Oly W EFF	24	4		X	X	X	X	

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to 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).

Sampled By: CMILL

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Stantec	9-8-14	1130	Melissa T	9-8-14	1130
				9-09-14	1029

*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. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

APPENDIX D

GEOTRACKER ELECTRONIC SUBMITTAL CONFIRMATIONS

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
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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

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STATE WATER RESOURCES CONTROL BOARD

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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.**
Username:	**STRATUS NOCAL**
IP Address:	**50.192.223.97**
Submittal Date/Time:	**10/1/2014 3:22:48 PM**
Confirmation Number:	**3969682812**

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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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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.**
Username:	**STRATUS NOCAL**
IP Address:	**50.192.223.97**
Submittal Date/Time:	**10/1/2014 10:26:40 AM**
Confirmation Number:	**4036842107**

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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.
Username:	STRATUS NOCAL
IP Address:	50.192.223.97
Submittal Date/Time:	10/1/2014 11:33:39 AM
Confirmation Number:	8833808243

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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.**
Username:	**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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Submittal Type:	EDF
Report Title:	3Q14 QMR 7-29-14 WEFF
Report Type:	Monitoring Report - Quarterly
Facility Global ID:	T0600102256
Facility Name:	OLYMPIC STATION
File Name:	14072940_EDF.zip
Organization Name:	Stratus Environmental, Inc.
Username:	STRATUS NOCAL
IP Address:	50.192.223.97
Submittal Date/Time:	10/1/2014 11:35:18 AM
Confirmation Number:	9574149429

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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.**
Username:	**STRATUS NOCAL**
IP Address:	**50.192.223.97**
Submittal Date/Time:	**10/1/2014 11:36:07 AM**
Confirmation Number:	**4181312322**

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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.
Username:	STRATUS NOCAL
IP Address:	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

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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.**
Username:	**STRATUS NOCAL**
IP Address:	**50.192.223.97**
Submittal Date/Time:	**10/1/2014 11:39:37 AM**
Confirmation Number:	**7046409368**

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STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

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Processing is complete. No errors were found!
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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.**
Username:	**STRATUS NOCAL**
IP Address:	**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

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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.**
Username:	**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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GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
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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.**
Username:	**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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