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By Alameda County Environmental Health 1:14 pm, Oct 29, 2015

Mr. Mark Dettman  
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, GeoTracker No. T0600102256

Dear Mr. Dettman:

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



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

October 29, 2015  
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 Third Quarter 2015  
Groundwater Monitoring and Sampling Event**  
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.**

Scott G. Bittinger, P.G.  
Project Geologist

Gowri S. Kowtha, P.E.  
Project Manager



Attachment: Remediation Status Report and Results for Third Quarter 2015 Groundwater Monitoring and Sampling Event

cc: Mr. Philip Jaber

**FORMER OLYMPIC STATION  
REMEDICATION STATUS REPORT AND RESULTS OF THIRD QUARTER 2015  
GROUNDWATER MONITORING AND SAMPLING EVENT**

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 2015):**

1. On July 7, 2015, Mr. Phillip Jaber and Stratus met with ACEHD to discuss future work activities at the subject site. Following the meeting, Stratus prepared and submitted a document titled *Focused Site Conceptual Model and Work Plan for Additional Site Assessment and Expanded Water Supply Well Survey* on August 12, 2015.
1. On July 14, 2015, Stratus performed the third quarter 2015 groundwater monitoring and sampling event, which consisted of sampling two wells (MW-5A and MW-6A).
2. Stratus continued use of dual phase extraction (DPE) remediation at the property. Operation and maintenance (O&M) visits were conducted on July 1 and 14, August 3 and 18, and September 1 and 22, 2015.

**WORK PROPOSED FOR NEXT PERIOD (Fourth Quarter 2015):**

1. Stratus will conduct the fourth quarter 2015 groundwater monitoring and sampling event.
2. Stratus will begin implementing the *Work Plan* once ACEHD approval has been obtained.
3. Operation of the DPE system will continue; the length of time that DPE will be completed during the fourth quarter 2015 will be evaluated on an ongoing basis and we anticipate shut down of the equipment by the winter of 2015/2016.

Current Phase of Project: CAP/REM (Start-up)  
Frequency of Groundwater Monitoring: All Wells = Semi-Annual (second and fourth calendar quarters); Wells MW-5A and MW-6A also gauged during the first and third calendar quarters to assess purge volumes for sampling  
Frequency of Groundwater Monitoring and Sampling: All Wells (except MW-5A and MW-6A) = Semi-Annual (second and fourth calendar quarters); Wells MW-5A and MW-6A sampled quarterly per 9/17/14 directive from ACEHD  
Groundwater Sampling Date: July 14, 2015

Is Free Product (FP) Present on Site:	<u>No</u>
Approximate Depth to Groundwater:	<u>7.85 to 8.00 feet below top of well casing</u>
Groundwater Flow Direction:	<u>Not evaluated (only two wells gauged)</u>
Groundwater Gradient:	<u>Not evaluated (only two wells gauged)</u>

**DPE SYSTEM QUARTERLY OPERATION AND PERFORMANCE:**

Equipment Inventory:	<u>350 cubic feet per minute (cfm) thermal oxidizer, and two 1,000 pound liquid-phase granular activated carbon vessels, connected in-series.</u>
Extraction Wells:	<u>EX-1 through EX-7, MW-5A, MW-6A</u>
Operating Mode:	<u>Thermal</u>
BAAQMD Permit Nos.:	<u>Plant No. 21776</u>
Influent Air: GRO End of Period (lab):	<u>&lt;20 milligrams per cubic meter (mg/m<sup>3</sup>) (9/1/15)</u>
Influent Air: Benzene End of Period (lab):	<u>0.20 mg/m<sup>3</sup> (9/1/15)</u>
Influent Air: MTBE End of Period (lab):	<u>0.20 mg/m<sup>3</sup> (9/1/15)</u>
Flow Rate End of Period:	<u>78.5 acfm (9/22/15)</u>
Applied Vacuum End of Period:	<u>12 inches of water column ("WC) (9/22/15)</u>
GRO Removed this Period in Soil Vapor:	<u>8.5 lbs (between 6/2/15 and 9/1/15)</u>
Cumulative GRO Removed in Soil Vapor:	<u>954.9 lbs (between 7/21/14 and 9/1/15)</u>
Influent Groundwater: GRO End of Period (lab):	<u>&lt;50 µg/L (9/1/15)</u>
Influent Groundwater: Benzene End of Period (lab):	<u>&lt;0.50 µg/L (9/1/15)</u>
Influent Groundwater: MTBE End of Period (lab):	<u>9.7 µg/L (9/1/15)</u>
Average Groundwater Extraction Rate :	<u>3.2 gpm (between 6/2/15 and 9/1/15)</u>
GRO Removed this Period in Groundwater:	<u>0.13 lbs (between 6/2/15 and 9/1/15)</u>
Cumulative GRO Removed in Groundwater:	<u>0.83 lbs (between 7/21/14 and 9/1/15)</u>
Groundwater Removed this Period:	<u>320,590 gallons (between 6/2/15 and 9/1/15)</u>
Cumulative Groundwater Removed:	<u>918,660 gallons (between 7/21/14 and 6/2/15)</u>
Operating Hours This Period:	<u>1,695 hours (between 6/22/15 and 9/22/15)</u>
Number of Shutdowns:	<u>2</u>

**GROUNDWATER MONITORING AND SAMPLING EVENT:**

An electronic water level sounder was used to gauge depth to water levels in the site's monitoring and extraction wells. Following gauging, purge groundwater samples were collected from the monitoring and extraction wells. Groundwater samples collected from the wells 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.

The highest concentrations of fuel contaminants in groundwater have recently been detected in monitoring wells installed to a depth of 10 feet below ground surface (bgs), approximately 2 to 3 feet below the current groundwater table at the site. Lower concentrations of fuel contaminants are consistently reported in samples collected from the other monitoring/remediation wells, which have been installed to depths ranging from approximately 20 to 26 feet bgs. During the third quarter 2015, only shallow wells MW-5A and MW-6A, where the highest concentrations of GRO and BTEX have recently been detected, were gauged and sampled.

GRO, benzene, and MTBE were detected at concentrations of 2,800 micrograms per liter ( $\mu\text{g/L}$ ), 390  $\mu\text{g/L}$ , and 13  $\mu\text{g/L}$ , respectively in the MW-5A sample, and 4,400  $\mu\text{g/L}$ , 930  $\mu\text{g/L}$ , and 99  $\mu\text{g/L}$ , respectively in the MW-6A sample. Concentrations of GRO and BTEX have declined significantly since extraction of soil vapor and groundwater was initiated from wells MW-5A and MW-6A.

#### **REMEDIAL ACTION SUMMARY:**

The DPE system consists of a portable 350 cubic feet per minute (cfm) thermal oxidizer owned by CBA Equipment, LLC and 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 have been manifolded to the remediation system; the system was later expanded to accommodate wells MW-5A and MW-6A (discussed below). Groundwater and soil vapors are extracted from a combination of wells intermittently to maximize the systems efficiency. In-well drop tubes (stingers) are used to extract soil vapors and groundwater from 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 on-site using two 1,000-pound GAC vessels, and then discharged to the sanitary sewer under approved discharge permit (Oro Loma Sanitary Sewer District). The remediation system is equipped to measure the extraction rates (soil vapor and groundwater flow rates). A flow totalizer is installed to record the volume of treated water extracted and discharged to the sanitary sewer. Influent and effluent soil vapor concentrations are also monitored using a photo-ionization detector (PID). 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 4.

During the third quarter 2015, Stratus technicians conducted six O&M site visits on July 1 and 14, August 3 and 18, and September 1 and 22, 2015. Stratus personnel modified the system on August 3, 2015, by additionally extracting from well EX-6, in an attempt to further reduce the contamination in groundwater and shallow soil vapor in this area of the site. During this period (June 22 through September 22, 2015), the remediation system operated for approximately 1,695 hours. Influent soil vapor extraction flow rates were observed between 71.2 and 78.5 cubic feet per minute (cfm) under an applied vacuum ranging between 12 to 15 inches of mercury ("Hg). Field data sheets documenting measurements and observations collected during each visit are included in Appendix A. Tables 3 through 9 provide a summary of data pertaining to the use of the DPE system.

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 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. Analytical data for these samples is included in Appendix C.

During the third quarter 2015, influent GRO and benzene concentrations in the vapor phase reported as non-detect and below reporting limits (less than 15 or 20 mg/m<sup>3</sup> for GRO and less than 0.15 or 0.20 mg/m<sup>3</sup> for benzene). Influent MTBE concentrations were observed to slightly fluctuate from less than 0.20 to 0.35 mg/m<sup>3</sup>. No petroleum hydrocarbons or MTBE were detected in the effluent air samples; therefore, 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 8.5 pounds of GRO were removed from the subsurface, in the vapor phase, between June 2 and September 1, 2015, and a total of 954.9 pounds of GRO has been removed from the subsurface, in the vapor phase, since startup July 21, 2014, through September 1, 2015 (see Table 6).

Between June 2 and September 1, 2015, approximately 320,590 gallons of groundwater were extracted from the subsurface, treated on-site, and discharged to the sanitary sewer system. Based on flow totalizer measurements, groundwater is being extracted at a rate of approximately 3.2 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:**

Although contaminant mass extraction rates are low, concentrations of fuel contaminants in groundwater appear to be declining due to DPE. Stratus intends to continue to operate the DPE system until the early winter months, while groundwater levels at the property remain relatively low. We anticipate that DPE will be discontinued during the latter portion of the fourth quarter 2015, or possibly early first quarter 2016. Stratus will provide periodic updates to ACEHD regarding the length of time that DPE will be conducted at the site.

#### **LIMITATIONS:**

This document was prepared in general accordance with accepted standards of care that existed at the time this work was performed. No other warranty, expressed or implied, is made. Conclusions and recommendations are based on field observations and data obtained from this work and previous investigations. It should be recognized that definition and evaluation of geologic conditions is a difficult and somewhat inexact science. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies may be performed to reduce uncertainties. This document is solely for the use and information of our client unless otherwise noted.

**ATTACHMENTS:**

- Table 1 Well Construction Detail Summary
- 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 Groundwater Analytical Summary, 10' Depth Monitoring Wells, Third Quarter 2015
- Figure 4 Process Flow Diagram
- Appendix A Field Data Sheets
- Appendix B Sampling and Analyses Procedures
- Appendix C Laboratory Analytical Reports and Chain-of-Custody Documentation

**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
<b><i>Groundwater Monitoring Wells</i></b>								
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
<b><i>Extraction Wells</i></b>								
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
<b><i>Injection Wells</i></b>								
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)	Groundwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (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	--	--	--	--	--	--	--
	11/25/14	7.45		11.15	--	--	--	51	<0.50	<0.50	<0.50	<0.50	100	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	7.24		11.36	--	--	--	68	<0.50	<0.50	<0.50	<0.50	120	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**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)	Groundwater 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	--	--	--	--	--	--	--
	11/25/14	7.03		10.97	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	0.67	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.83		11.17	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**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)	Groundwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (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	--	--	--	--	--	--	--
	11/25/14	7.11		10.84	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	20	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.85		11.10	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	43	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**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)	Groundwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (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	--	--	--	--	--	--	--
	11/25/14	7.00		10.99	--	--	--	2,900	72	<5.0[2]	<5.0[2]	<5.0[2]	4,500	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	7.00		10.99	--	--	--	460	33	<1.0[4]	<1.0[4]	<1.0[4]	730	--	--	--	--	--	--	--
07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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]	--	--	--	--	--	--	--
	11/25/14	7.47		10.47	--	--	--	14,000	1,500	<10[2]	1,100	570	<10[2]	--	--	--	--	--	--	--
	02/02/15	6.90		11.04	--	--	--	10,000	970	<20[2]	480	180	<20[2]	--	--	--	--	--	--	--
	04/14/15	6.81		11.13	--	--	--	12,000	1,600	5.2	940	270	7.0	--	--	--	--	--	--	--
	07/14/15	7.85		10.09	--	--	--	2,800	390	<2.0[2]	130	40	13	--	--	--	--	--	--	--
MW-5B	06/19/14	7.52	17.92	10.40	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	32	--	--	--	--	--	--	--
	11/25/14	7.18		10.74	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	10	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.88		11.04	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--
	11/25/14	7.56		10.49	--	--	--	23,000	2,800	16	1,500	1,730	160	--	--	--	--	--	--	--
	02/02/15	7.13		10.92	--	--	--	14,000	1,100	<20[2]	490	350	35	--	--	--	--	--	--	--
	04/14/15	6.98		11.07	--	--	--	12,000	2,100	<10[2]	880	190	61	--	--	--	--	--	--	--
	07/14/15	8.00		10.05	--	--	--	4,400	930	<5.0[2]	200	263	99	--	--	--	--	--	--	--
MW-6B	06/19/14	7.32	17.69	10.37	--	--	--	86	<0.50	<0.50	<0.50	<0.50	82	--	--	--	--	--	--	--
	11/25/14	6.98		10.71	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	51	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.68		11.01	--	--	--	85	<0.50	<0.50	<0.50	<0.50	150	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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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)	Groundwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (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	--	--	--	--	--	--	--	--
	11/25/14	6.95		11.19	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	15	--	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	NM		NM	--	--	--	64	1.5	<0.50	<0.50	<0.50	49	--	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	
	11/25/14	7.02		11.12	--	--	--	72	<0.50	<0.50	<0.50	<0.50	130	--	--	--	--	--	--	--	
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	04/14/15	6.77		11.37	--	--	--	70	<0.50	<0.50	<0.50	<0.50	120	--	--	--	--	--	--	--	
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	
	11/25/14	6.85		10.78	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	6.9	--	--	--	--	--	--	--	
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	04/14/15	6.57		11.06	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	13	--	--	--	--	--	--	--	
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

**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)	Groundwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (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-4	06/19/14	7.64	18.30	10.66	--	--	--	210	9.5	<0.50	0.55	0.74	10	--	--	--	--	--	--	--
	11/25/14	7.21		11.09	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	8.5	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	7.00		11.30	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	1.1	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX-5	06/19/14	7.84	18.41	10.57	--	--	--	110	6.0	<0.50	<0.50	<0.50	14	--	--	--	--	--	--	--
	11/25/14	7.42		10.99	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	40	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	NM		NM	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	15	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX-6	06/19/14	7.81	18.29	10.48	--	--	--	190	25	<0.50	5.9	<0.50	18	--	--	--	--	--	--	--
	11/25/14	7.44		10.85	--	--	--	250	36	<0.50	7.1	<0.50	160	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	7.17		11.12	--	--	--	180	25	<0.50	3.1	<0.50	110	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX-7	06/19/14	7.44	18.06	10.62	--	--	--	56	0.79	<0.50	<0.50	<0.50	50	--	--	--	--	--	--	--
	11/25/14	7.04		11.02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	3.3	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.81		11.25	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	24	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**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.

[4] = Reporting Limits were increased due to sample foaming.

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	
			"Hg	ft <sup>2</sup>	°F	fpm	acfm	°F	°F	ft <sup>2</sup>	°F	fpm	acfm	Inf	Eff	Sys Inf	Eff
														pH	°F	ppmv	ppmv
7/21/14 6:00	1	3,478.1	16.0	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	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	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	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	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	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	0.0491	100	2,700	132.5	1,464	1,425	--	--	--	--	--	--	150	1.7
10/2/14 6:48	6	4,823.0	12.0	0.0491	98	2,800	137.4	1,467	1,429	--	--	--	--	7.91	7.93	25	2.3
10/20/14 10:00	7	5,039.0	14.0	0.0491	90	2,500	122.7	1,460	1,389	--	--	--	--	--	--	45	2.6
11/3/14 7:00	8	5,265.0	14.0	0.0491	90	2,600	127.6	1,426	1,471	--	--	--	--	8.17	8.31	50	2.1
11/18/14 6:00	9	5,269.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/4/14 5:45	10	5,271.0	20.0	0.0491	90	2,000	98.2	1,468	1,310	0.0218	63	3096	68	8.13	8.36	16	2.4
12/16/14 5:30		5,557.0	16.0	0.0491	80	2,500	122.7	1,463	1,420	0.0218	55	2910	63	--	--	50	1.2
1/5/15 7:15	8	5,873.0	19.0	0.0491	72	1,500	73.6	1,534	1,400	0.0218	50	1534	33	8.19	8.41	10	1.8
1/19/15 6:00	8	5,888.0	18.0	0.0491	80	1,800	88.4	1,460	1,365	0.0218	50	1484	32	--	--	10	1.3
2/2/15 5:55	8	5,926.0	17.0	0.0491	80	1,750	85.9	1,467	1,413	0.0218	60	1987	43	8.05	8.13	5	1.3
2/16/15 6:00	8	5,930.0	19.0	0.0491	75	1,500	73.6	1,474	1,350	0.0218	63	1348	29	--	--	6	0.8
3/10/15 5:05	8	5,941.0	20.0	0.0491	78	1,500	73.6	1,463	1,350	0.0218	67	1771	39	8.13	8.21	10	0.9
3/23/15 7:00	11	6,015.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**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
														pH	°F	ppmv	ppmv
5/5/15 5:00	12	6,018.0	14.5	0.0491	80	1,600	78.5	1494	1400	0.0218	55	2319	51	7.49	7.96	25	2.5
5/20/15 5:45	13	6,059.0	15.0	0.0491	80	1,450	71.2	1450	--	0.0218	65	685	15	--	--	40	1.3
5/21/15 5:10	14	6,083.0	15.0	0.0491	90	1,500	73.6	1450	--	0.0218	--	--	--	--	--	--	--
6/2/15 4:45	15	6,233.0	15.0	0.0491	90	1,500	73.6	1450	1380	0.0218	--	--	--	8.01	7.81	6	0.3
6/22/15 4:00		6,712.0	14.0	0.0491	85	1,500	73.6	1450	1310	0.0218	--	--	--	--	--	10	0.2
7/1/15 5:30	16	6,929.0	14.0	0.0491	95	1,600	78.5	1456	--	0.0218	--	--	--	--	--	5	0.4
7/14/15 5:15	13	6,930.0	15.0	0.0491	80	1,450	71.2	1450	1376	0.0218	--	--	--	--	--	75	1.2
8/3/15 6:00	17	7,410.0	12.0	0.0491	96	1,600	78.5	1450	1125	0.0218	--	--	--	7.74	7.50	5	0.8
8/18/15 5:00	18	7,725.0	12.0	0.0491	90	1,500	73.6	1460	1105	0.0218	--	--	--	--	--	3	0.8
9/1/15 5:00	19	7,903.0	12.5	0.0491	90	1,500	73.6	1460	1360	0.0218	--	--	--	7.74	7.38	2	0.5
9/22/15 4:45	20	8,407.0	12.0	0.0491	90	1,600	78.5	1450	1125	0.0218	--	--	--	--	--	30	0.9
Average			15.1		88	1,896	93.1	1,463	1,361		63	1552	34	7.9	8.0	75.9	1.4

<p><b>Legend / Key:</b>          Vac = Vacuum          "Hg = inches mercury          ft<sup>2</sup> = square feet          Temp = temperature          °F = Fahrenheit          Inf = Influent          -- = not applicable/ not measured</p>	<p>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</p>	<p><b>Sample Calculation:</b>          air flow = area of pipe (0.0491 ft<sup>2</sup>) × air velocity (fpm) = flowrate (acfm)</p>
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**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 <sup>2</sup>	°F	fpm

**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.
- 6 System down upon arrival, system modified to extract from wells EX-1 through EX-7, system re-started upon departure.
- 7 System down upon arrival, replaced switch on combustion blower, system re-started upon departure.
- 8 System down upon arrival, system re-started upon departure.
- 9 System down upon arrival, due to scheduled groundwater sampling event system remained down upon departure.
- 10 System down upon arrival, system modified to extract from wells EX-1, EX-5 and EX-6, system re-started upon departure.
- 11 System down upon arrival, system remained down upon departure to evaluate pulse operation and second quarter groundwater sampling.
- 12 System down upon arrival, system re-started to obtain air and water samples. System modified to extract from wells EX-3, EX-6, MW-5A, and MW-6A. Sewer system observed to be backed up, therefore, maintenance to be completed prior to continuous system operation. System manually shutdown upon departure.
- 13 System down upon arrival, system re-started for continuous operation.
- 14 System modified to extract from wells EX-1, EX-6, MW-5A and MW-6A.
- 15 System modified to extract from wells EX-1, MW-5A and MW-6A.
- 16 System manually shutdown temporarily for upcoming sampling event.
- 17 System modified well EX-6 brought on-line, valve open 10%.
- 18 System down upon arrival, flame off, system modified well EX-6 open 25%, system re-started upon departure.
- 19 System modified well EX-6 open 10%.
- 20 System modified well EX-6 open 30%.

**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
10/2/14 6:48	5	0.02	9.02	0.56	8.82	3.39	9.35	0.40	8.71	0.10	9.09	0.37	9.14
10/20/14 10:00	6	--	--	--	--	--	--	--	--	--	--	--	--
11/3/14 7:00	7	0.01	8.71	0.50	8.43	12.12	8.91	0.75	7.94	0.60	8.48	0.34	8.55
11/18/14 6:00	8	--	--	--	--	--	--	--	--	--	--	--	--
12/4/14 5:45	9	0.00	6.42	0.07	6.11	1.50	7.63	0.65	6.29	0.70	7.08	0.95	--
12/16/14 5:30		0.00	5.12	0.34	4.77	9.40	6.33	--	--	1.65	5.65	*0.35	5.12
1/5/15 7:15	7	0.00	7.10	0.11	6.79	4.40	8.17	0.99	6.23	1.75	6.11	0.47	6.44
1/19/15 6:00	7	--	--	--	--	--	--	--	--	--	--	--	--
2/2/15 5:55	7	0.00	7.71	0.10	7.38	4.77	8.65	0.85	6.99	0.31	6.90	0.45	7.13
2/16/15 6:00	10	0.00	6.95	0.10	6.62	3.30	7.89	1.05	6.07	1.68	5.58	0.59	6.01
3/10/15 5:05	11	0.00	7.66	0.05	7.27	1.93	7.88	--	--	0.99	6.71	0.16	7.06
3/23/15 7:00	12	--	--	--	--	--	--	--	--	--	--	--	--

**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
5/5/15 5:00	13	--	--	--	--	--	--	--	--	--	--	--	--
5/20/15 5:45	14	--	--	--	--	--	--	--	--	--	--	--	--
5/21/15 5:10		--	--	--	--	--	--	--	--	--	--	--	--
6/2/15 4:45	15	0.00	8.29	0.00	7.88	0.00	8.40	--	--	--	--	--	--
6/22/15 4:00		0.00	8.45	0.28	8.05	0.02	8.54	0.66	8.95	--	--	--	--
7/1/15 5:30	16	0.00	8.52	0.28	8.10	0.03	8.61	--	--	--	--	--	--
7/14/15 5:15	14	--	--	--	--	--	--	--	--	--	--	--	--
8/3/15 6:00	17	0.00	8.72	0.22	8.40	0.19	9.38	--	--	--	--	--	--
9/1/15 5:00		0.01	8.75	0.20	8.37	0.18	9.13	0.57	9.00	--	--	--	--
9/22/15 4:45		0.00	8.98	0.17	8.62	0.15	9.38	0.57	9.03	--	--	--	--
<b>Average</b>		0.00		0.24		2.41		0.61		0.72		0.42	
<b>Nearest Extraction well &amp; approx. distance (feet)</b>		EX-2	22'	EX-7	11'	EX-6	9'	EX-1	13'	EX-3	28'	EX-6	54'
<b>Legend / Key:</b>													
"WC = Inches of water column                      bgs = below ground surface													
* Positive pressure    -- = not applicable/ not measured													
<b>Notes:</b>													
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 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
	5 System down upon arrival, system modified to extract from wells EX-1 through EX-7, system re-started upon departure.												
	6 System down upon arrival, switch to combustion blower repaired, system re-started upon departure.												
	7 System down upon arrival system re-started upon departure.												
	8 System down upon arrival system remained down upon departure due to scheduled groundwater monitoring event.												
	9 System modified to extract from wells EX-1, EX-5 and EX-6, system down upon arrival and re-started upon departure.												
	10 System down upon arrival and re-started upon departure, system modified to extract from wells EX-1 and EX-6 (both valves modified to 50% open); well EX-5 remained 100% open.												
	11 System down upon arrival, system modified to extract from wells EX-1 and EX-5 with valves 100% open, system re-started upon departure.												
	12 System temporarily shutdown due to lack of project funding.												
	13 System down upon arrival, site visit completed to set up the system to extract from EX-3, EX-6, MW-5A, and MW-6A. Sewer backed up, therefore, maintenance to be completed and system remained down upon departure.												
	14 System down upon arrival, system re-started for continuous operation.												
	15 System modified to extract from wells EX-1, MW-5A, and MW-6A, therefore, no induced vacuum readings were obtained on those wells.												
	16 System manually shut down for sampling event.												
	17 System down upon arrival, system modified EX-6 brought on-line, system re-started upon departure.												

**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 *		Influent Temp. (°F)	Vacuum "Hg	Sample Location	Lab Sample Number	Analyses (mg/m <sup>3</sup> )					
			(acfm)	(scfm)					GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
07/21/14	1	7:30	98.2	93.4	95	16.0	ASYS INF A EFF	88741-01	<b>5,900</b>	<b>1.0</b>	<0.70	<0.70	<0.70	<b>1.8</b>
								88741-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20
08/04/14		7:40	98.2	95.1	85	15.0	ASYS INF A EFF	88839-01	<b>3,800</b>	<b>4.0</b>	<0.50	<b>0.71</b>	<0.50	<b>1.4</b>
								88839-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20
09/08/14		8:10	127.6	120.3	100	12.0	ASYS INF A EFF	89089-01	<b>410</b>	<b>0.45</b>	<0.20	<0.25	<0.20	<b>0.80</b>
								89089-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20
10/02/14	2	7:30	137.4	130.1	98	12.0	ASYS INF A EFF	89311-01	<b>140</b>	<b>0.36</b>	<0.20	<0.25	<0.20	<b>0.64</b>
								89311-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20
11/03/14		7:40	127.6	122.5	90	14.0	ASYS INF A EFF	89569-01	<b>150</b>	<b>0.38</b>	<0.20	<0.25	<0.20	<b>0.48</b>
								89569-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20
12/04/14		7:05	98.2	94.2	90	20.0	ASYS INF A EFF	89811-01	<b>85</b>	<0.20	<0.20	<0.25	<0.20	<0.20
								89811-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20
01/05/15		15:15	73.6	73.1	72	19.0	ASYS INF A EFF	90047-01	<20	<b>0.45</b>	<0.20	<0.25	<0.20	<b>0.39</b>
								90047-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20
02/02/15		6:53	85.9	84.0	80	17.0	ASYS INF A EFF	90256-01	<b>24</b>	<b>0.38</b>	<0.20	<0.25	<0.20	<b>0.40</b>
								90256-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20
03/10/15		7:25	73.6	72.3	78	20.0	ASYS INF A EFF	90502-01	<b>22</b>	<0.20	<0.20	<0.25	<0.20	<b>0.52</b>
								90502-02	<20	<0.20	<0.20	<0.25	<0.20	<0.20
05/05/15	3	7:07	78.5	76.8	80	14.5	ASYS INF A EFF	STR15050647-01A	<b>110</b>	<b>0.56</b>	<0.20	<b>0.20</b>	<0.20	<0.20
								STR15050646-01A	<20	<0.20	<0.20	<0.20	<0.20	<0.20
06/02/15	4	5:35	73.6	70.7	90	15.0	ASYS INF A EFF	STR15060351-04A	<20	<b>0.20</b>	<0.20	<0.20	<0.20	<b>0.24</b>
								STR15060343-02A	<20	<0.20	<0.20	<0.20	<0.20	<0.20

**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 *		Influent Temp. (°F)	Vacuum "Hg	Sample Location	Lab Sample Number	Analyses (mg/m <sup>3</sup> )					
			(acfm)	(scfm)					GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
07/01/15		6:03	78.5	74.7	95	14.0	ASYS INF	STR15070246-01A	<20	<0.20	<0.20	<0.20	<0.20	<b>0.28</b>
							A EFF	STR15070242-01A	<20	<0.20	<0.20	<0.20	<0.20	<0.20
08/03/15	5	6:29	78.5	74.6	96	12.0	ASYS INF	STR15080445-01A	<15	<0.15	<0.15	<0.15	<0.15	<b>0.35</b>
							A EFF	STR15080443-01A	<15	<0.15	<0.15	<0.15	<0.15	<0.15
09/01/15		5:20	73.6	70.7	90	12.5	ASYS INF	STR15090248-04A	<20	<0.20	<0.20	<0.20	<0.20	<0.20
							A EFF	STR15090240-02A	<15	<0.15	<0.15	<0.15	<0.15	<0.15

**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)

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

**Calculations:**

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

Pressure corrected influent flow rate = Flow was taken on positive side of blower, no pressure correction factor needed.

Temperature Corrected influent flow rate = Pressure corrected flow rate \* {(460 R + 68deg F)/( deg F+ 460 R)}

**Notes:**

- 1 DPE extracting from extraction wells EX-2 through EX-7.
- 2 DPE extracting from extraction wells EX-1 through EX-7.
- 3 DPE extracting from extraction wells EX-3, EX-6, MW-5A and MW-6A.
- 4 DPE extracting from extraction wells EX-1, MW-5A and MW-6A.
- 5 DPE extracting from extraction wells EX-1, EX-6, MW-5A and MW-6A.

**Laboratory Analytical Methods and Facility:**

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



**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	<b>310</b>	<b>3.3</b>	<0.50	<0.50	<0.50	<b>37</b>
		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	<b>170</b>	<b>3.4</b>	<0.50	<b>0.97</b>	<0.50	<b>39</b>
		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	<b>0.89</b>	<0.50	<0.50	<0.50	<b>12</b>
		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
10/02/14	2	7:25	WINF	STR14100342-01A	<50	<b>0.77</b>	<0.50	<0.50	<0.50	<b>11</b>
		7:19	WGAC1	STR14090942-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:14	WGAC2	STR14090942-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:09	WEFF	STR14100341-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
11/03/14		7:58	WINF	STR14110443-01A	<50	<0.50	<0.50	<0.50	<0.50	<b>13</b>
		7:55	WGAC1	STR14100344-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:50	WGAC2	STR14100344-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:45	WEFF	STR14110441-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50



**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
12/04/14		6:55	WINF	STR14120542-01A	<50	<b>0.98</b>	<0.50	<0.50	<0.50	<b>21</b>
		6:48	WGAC1	STR14120543-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:44	WGAC2	STR14120543-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:40	WEFF	STR14120541-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
01/05/15		7:46	WINF	STR15010644-01A	<50	<b>5.4</b>	<0.50	<0.50	<0.50	<b>29</b>
		7:44	WGAC1	STR15010647-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:41	WGAC2	STR15010647-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:37	WEFF	STR15010641-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
02/02/15		6:47	WINF	STR15020348-01A	<50	<b>2.4</b>	<0.50	<0.50	<0.50	<b>22</b>
		6:44	WGAC1	STR15020349-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:40	WGAC2	STR15020349-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:37	WEFF	STR15020344-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
03/10/15		7:05	WINF	STR15031148-01A	<50	<b>1.5</b>	<0.50	<0.50	<0.50	<b>21</b>
		7:00	WGAC1	STR15031149-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:55	WGAC2	STR15031149-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:52	WEFF	STR15031147-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
05/05/15	3	7:32	WINF	STR15050650-01A	<b>96</b>	<b>5.0</b>	<0.50	<b>2.2</b>	<b>2.16</b>	<b>19</b>
		7:28	WGAC1	STR15050650-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:25	WGAC2	STR15050650-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:22	WEFF	STR15050645-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50

**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
06/02/15	4	5:30	WINF	STR15060351-01A	<50	<0.50	<0.50	<0.50	<0.50	<b>7.7</b>
		5:21	WGAC1	STR15060351-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		5:17	WGAC2	STR15060351-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		5:15	WEFF	STR15060343-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
07/01/15		5:55	WINF	STR15070246-02A	<50	<0.50	<0.50	<0.50	<0.50	<b>6.9</b>
		5:50	WGAC1	STR15070246-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		5:43	WGAC2	STR15070246-04A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		5:40	WEFF	STR15070242-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
08/03/15	5	6:23	WINF	STR15080445-02A	<50	<0.50	<0.50	<0.50	<0.50	<b>9.6</b>
		6:20	WGAC1	STR15080445-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:15	WGAC2	STR15080445-04A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:10	WEFF	STR15080443-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
09/01/15		5:28	WINF	STR15090248-01A	<50	<0.50	<0.50	<0.50	<0.50	<b>9.7</b>
		5:26	WGAC1	STR15090248-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		5:23	WGAC2	STR15090248-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		5:21	WEFF	STR15090240-01A	<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)

**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
<b>Notes:</b>										
1 DPE extracting from extraction wells EX-2 through EX-7.										
2 DPE extracting from extraction wells EX-1 through EX-7.										
3 DPE extracting from extraction wells EX-3, EX-6, MW-5A and MW-6A.										
4 DPE extracting from extraction wells EX-1, MW-5A and MW-6A.										
5 DPE extracting from extraction wells EX-1, EX-6, MW-5A and MW-6A.										

**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	Cyanide	Cr	Ni	Cu	Zn	As	Se	Ag	Cd	Pb	Phenols
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
07/21/14	1	7:43	WINF	STR14072144-01A	<0.20	<0.0001	<10	<10	<20	<100	<5.0	<b>5.8</b>	<5.0	<2.0	<b>6.7</b>	<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	<b>7.7</b>	<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

**Notes:**

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

**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. (California #2019; NELAC #01154CA)

**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 <sup>1</sup>	Sewer Discharge Data				Analytical Results			Mass Removed			Cumulative		
				Totalizer Reading (gallons)	Period (gallons)	Cumulative Flow (gallons)	Average Sewer Discharge Flow Rate (gpm) <sup>a</sup>	Influent			This Period			Mass Removed		
								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
10/02/14	2	7:25	4,823.0	458,740	153,370	398,300	4.44	<50	0.77	11	<0.06	0.0011	0.015	<0.47	0.0068	0.081
11/03/14		7:58	5,265.0	618,930	160,190	558,490	6.04	<50	<0.50	13	<0.07	<0.001	0.016	<0.53	<0.008	0.097
12/04/14	3	6:55	5,271.0	621,440	2,510	561,000	6.97	<50	0.98	21	<0.001	<0.00002	0.0004	<0.53	<0.008	0.097
01/05/15		7:46	5,873.0	875,710	254,270	815,270	7.04	<50	5.4	29	<0.106	<0.00677	0.0530	<0.64	<0.014	0.150
02/02/15		6:47	5,926.0	898,290	22,580	837,850	7.10	<50	2.4	22	<0.009	<0.00073	0.0048	<0.65	<0.015	0.155
03/10/15	4	7:05	5,941.0	904,000	5,710	843,560	6.34	<50	1.5	21	<0.002	<0.00009	0.0010	<0.65	<0.015	0.156
03/23/15	5	--	6,015.0	927,780	23,780	867,340	5.36	--	--	--	<0.010	<0.00030	0.0042	<0.66	<0.016	0.160
05/05/15	6	7:32	6,018.0	929,200	1,420	868,760	7.89	96	5.0	19	<0.001	<0.00006	0.0002	<0.66	<0.016	0.160
06/02/15	7	5:35	6,233.0	979,100	49,900	918,660	3.87	<50	<0.50	7.7	<0.030	<0.00115	0.0056	<0.69	<0.017	0.166
07/01/15		5:55	6,929.0	1,122,860	143,760	1,062,420	3.44	<50	<0.50	6.9	<0.060	<0.00060	0.0088	<0.75	<0.017	0.175
08/03/15	8	6:23	7,410.0	1,220,100	97,240	1,159,660	3.37	<50	<0.50	9.6	<0.041	<0.00041	0.0067	<0.79	<0.018	0.181
09/01/15		5:28	7,903.0	1,299,690	79,590	1,239,250	2.69	<50	<0.50	9.7	<0.033	<0.00033	0.0064	<0.83	<0.018	0.188

**Legend / Key:**

GRO = Gasoline Range Organics C4-C13

µg/L = micrograms per liter

lbs = pounds

MTBE = Methyl tertiary butyl ether

gpm = gallons per minute

-- = 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)

<sup>a</sup> Not representative of actual flow rate, calculation affected by system down time.

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

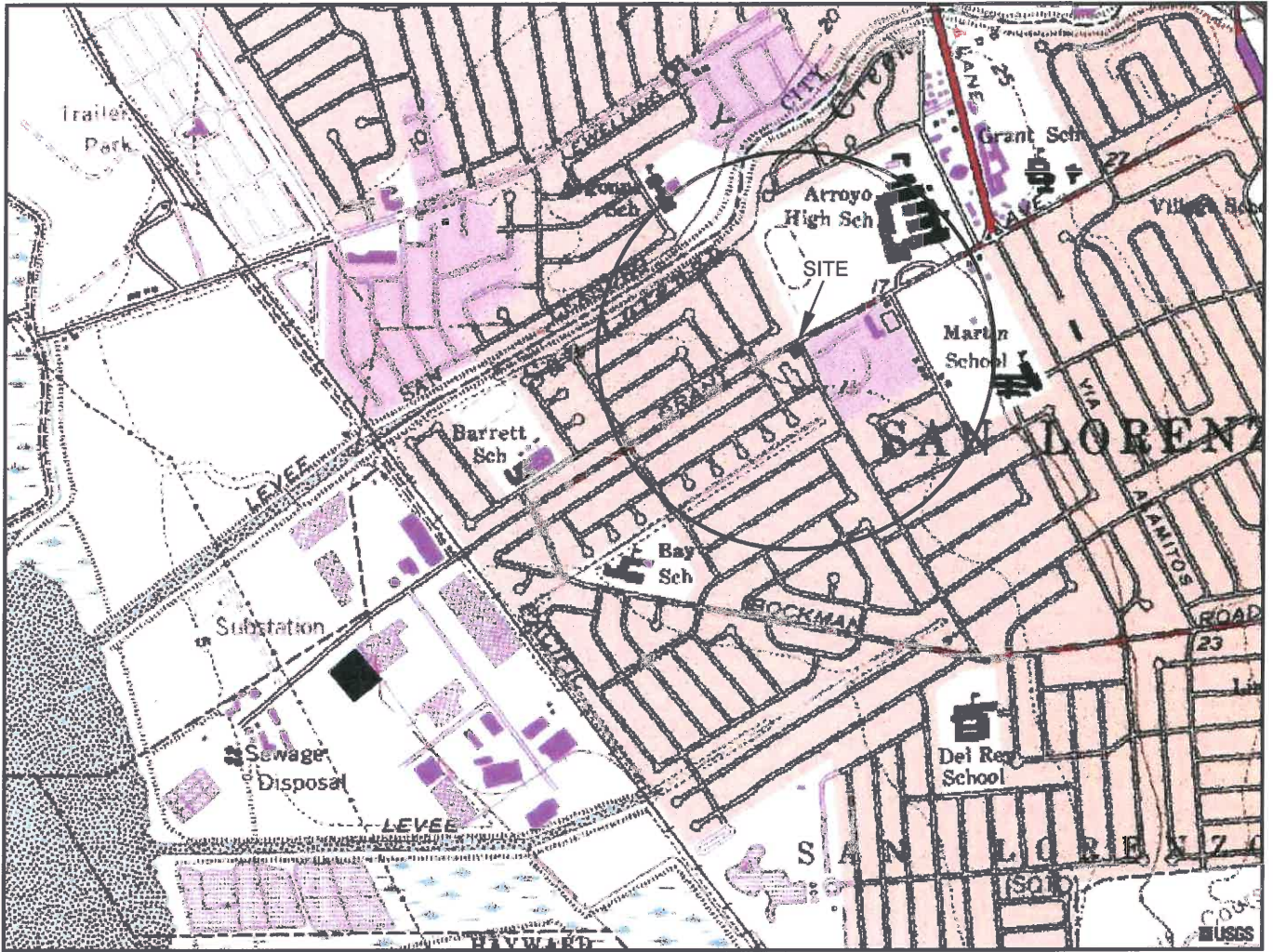
<sup>1</sup> Hour meter readings were not taken at exact sampling times, therefore, times noted are readings obtained closest to the actual sampling times.

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

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

**Notes:**

- 1 DPE extracting from extraction wells EX-2 through EX-7.
- 2 DPE extracting from extraction wells EX-1 through EX-7.
- 3 DPE extracting from extraction wells EX-1, EX-5 and EX-6.
- 4 DPE extracting from extraction wells EX-1 and EX-5.
- 5 Mass removed is based on analytical results obtained during March 10, 2015 sampling event.
- 6 System was non-operational between March 23 and May 5, 2015 due to budget constraints. After maintenance, the system was re-started for continuous operation on May 20, 2015, extracting from wells EX-3, EX-6, MW-5A and MW-6A.
- 7 DPE extracting from extraction wells EX-1, MW-5A and MW-6A.
- 8 DPE extracting from extraction wells EX-1, EX-6, MW-5A and MW-6A.



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



QUADRANGLE LOCATION



APPROXIMATE SCALE



*STRATUS*  
 ENVIRONMENTAL, INC.

FORMER OLYMPIC SERVICE STATION  
 1436 GRANT AVENUE  
 SAN LORENZO, CALIFORNIA







FIGURE

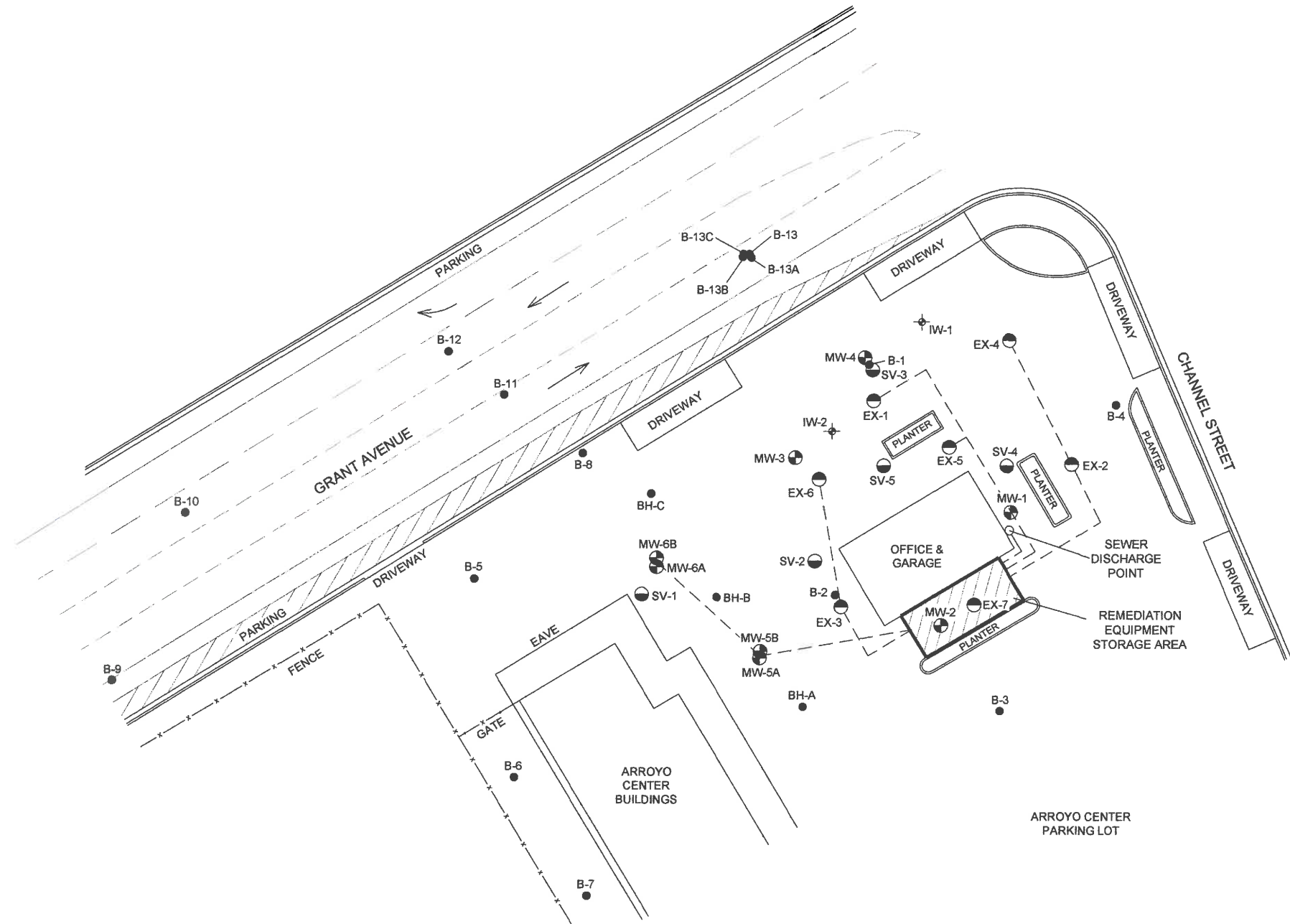
1

PROJECT NO.  
 2115-1436-01

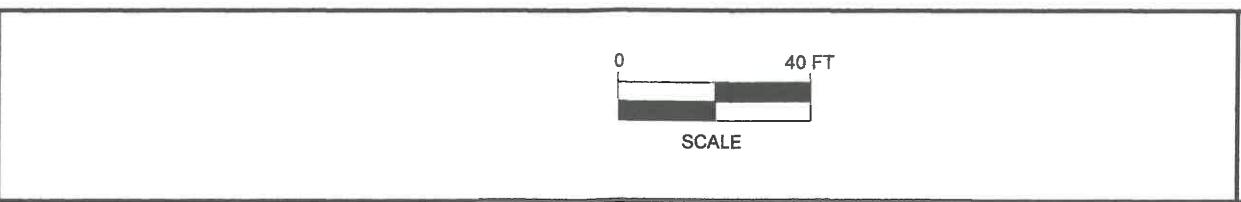
SITE LOCATION MAP



- 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



PATH NAME: Olympic  
 DRAFTER INITIALS: JMP  
 DATE LAST REVISED: May 15, 2015  
 FILENAME: Olympic Siteplan



FORMER OLYMPIC SERVICE STATION  
 1436 GRANT AVENUE  
 SAN LORENZO, CALIFORNIA

SITE PLAN

FIGURE  
 2  
 PROJECT NO.  
 2115-1436-01



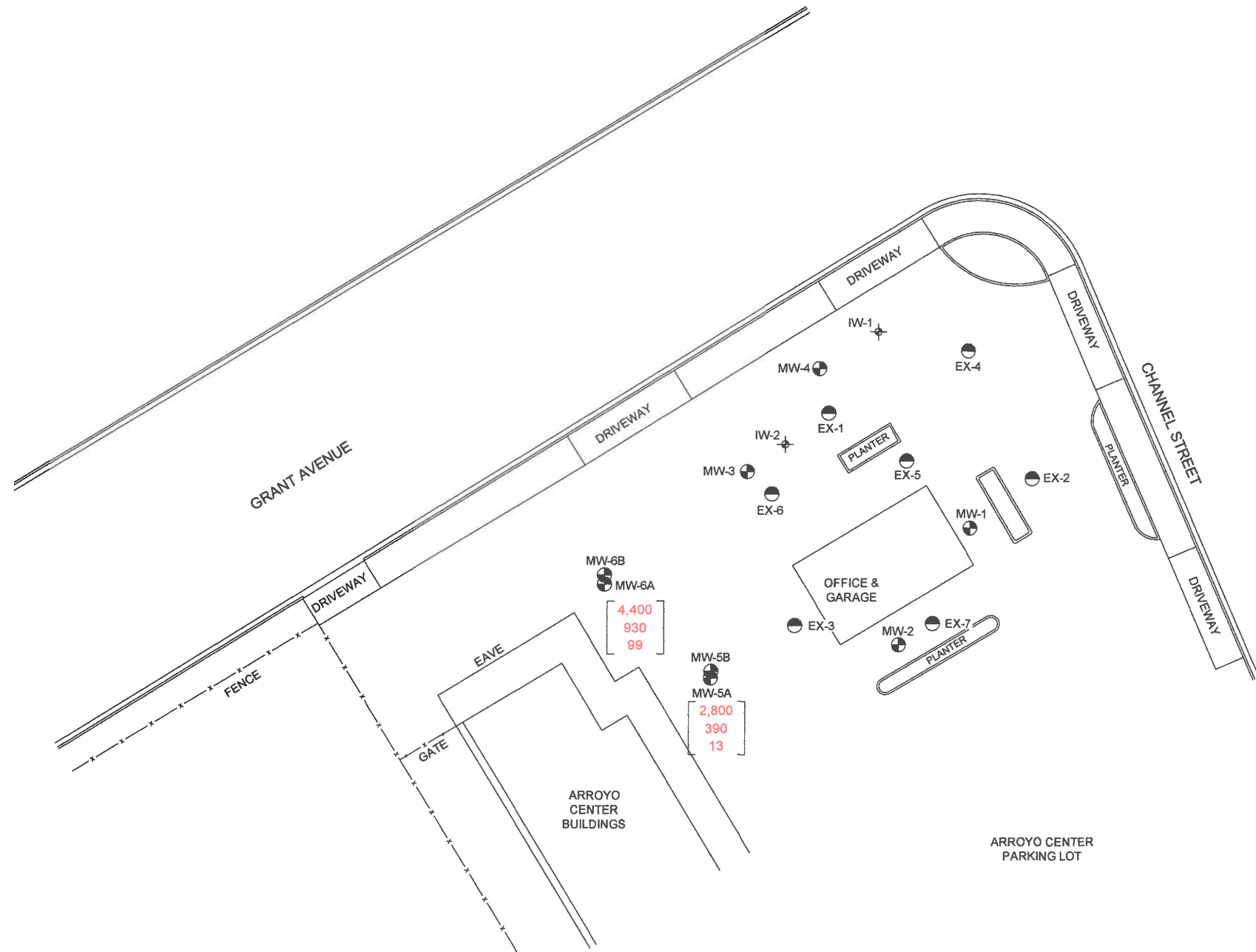


LEGEND

- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

- 460 GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN µg/L
- 33 BENZENE CONCENTRATION IN µg/L
- 730 METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L

WELLS SAMPLED ON 7/14/15  
 GRO ANALYZED BY EPA METHOD SW8015B/SW8260B  
 MTBE & BENZENE ANALYZED BY EPA METHOD SW8260B



BASED ON SURVEY PREPARED BY MORROW SURVEYING ON 6/15/11 & UPDATED IN JUNE 2014.

**STRATUS**  
ENVIRONMENTAL, INC.

PATH NAME: OlympicQuarterly  
 DRAFTER INITIALS: JED  
 DATE LAST REVISED: August 19, 2015  
 FILENAME: Olympic Quarterly Figures

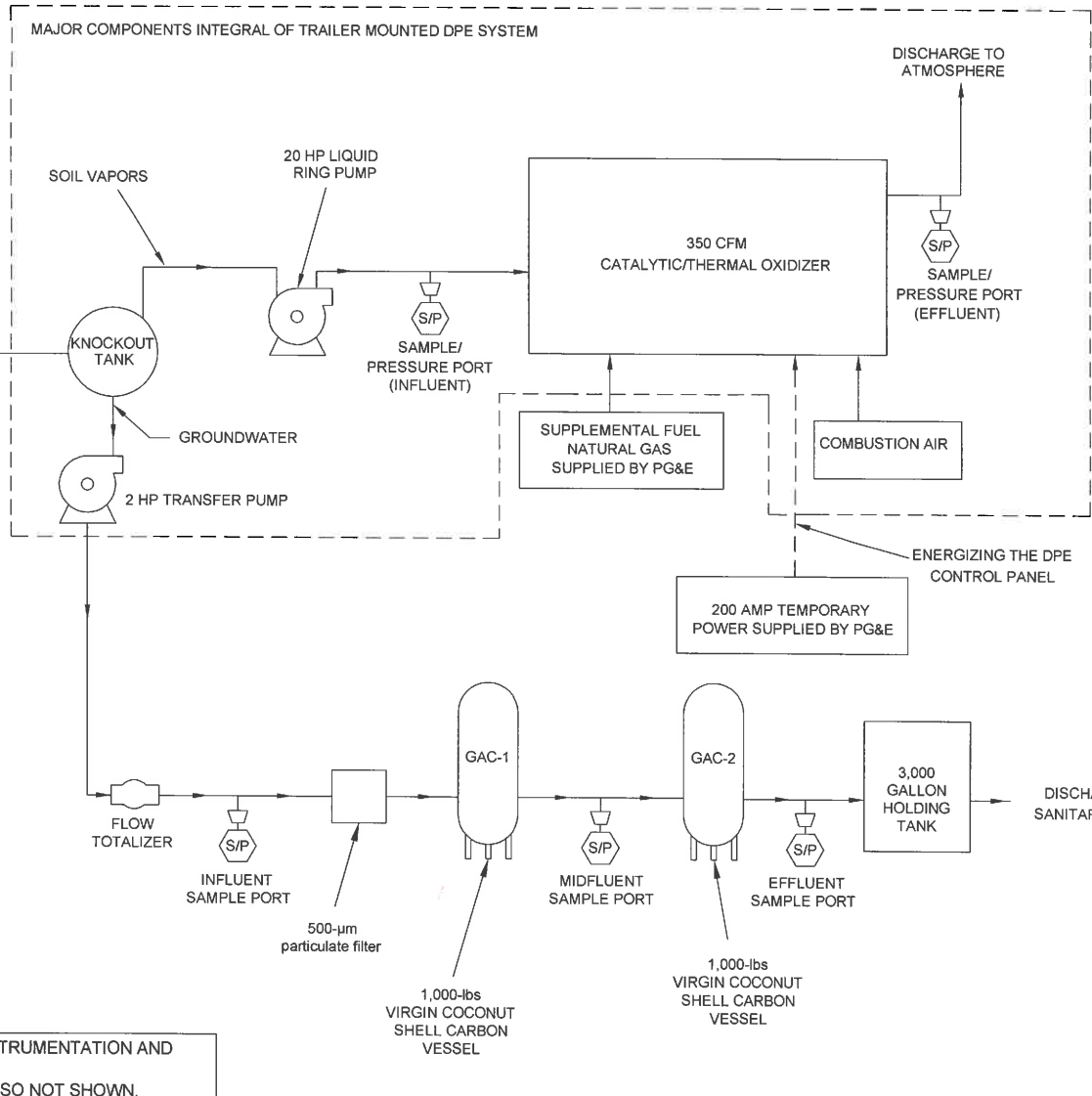


FORMER OLYMPIC SERVICE STATION  
 1436 GRANT AVENUE  
 SAN LORENZO, CALIFORNIA  
 GROUNDWATER ANALYTICAL SUMMARY  
 10' DEPTH MONITORING WELLS  
 3rd QUARTER 2015

FIGURE

**3**

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



FORMER OLYMPIC SERVICE STATION  
1436 GRANT AVENUE  
SAN LORENZO, CALIFORNIA  
  
PROCESS FLOW DIAGRAM

FIGURE  
**4**  
PROJECT NO.  
2153-14930-011

**APPENDIX A**  
**FIELD DATA SHEETS**





1436  
 Site Address Grant Ave  
 City SAN LORENZO  
 Sampled By:  
 Signature CUTILL

**ORIGINAL**  
 Site Number Olympic station  
 Project Number  
 Project PM Scott  
 DATE 7/14/05

Well ID <u>MW5A</u>					Well ID <u>MW6A</u>				
Purge start time			Odor <input checked="" type="radio"/> N		Purge start time			Odor <input checked="" type="radio"/> N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time <u>0532</u>	<u>22.6</u>	<u>7.18</u>	<u>11.30</u>	<u>8</u>	time <u>0539</u>	<u>23.9</u>	<u>7.11</u>	<u>2.01</u>	<u>8</u>
time <u>0534</u>	<u>22.7</u>	<u>7.21</u>	<u>12.40</u>	<u>0.5 DM</u>	time <u>0541</u>	<u>23.9</u>	<u>7.12</u>	<u>1.88</u>	<u>1.5</u>
time					time				
time					time				
purge stop time <u>8.69</u>			ORP <u>-24.7</u>		purge stop time <u>1.23</u>			ORP <u>-20.2</u>	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	

Company: Stratus  
 Attn: 3330 Carson Park Dr  
 Address: Carson Park  
 City, State, Zip: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



**Alpha Analytical, Inc.**  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
**Satellite Service Centers:**  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

04344

Page # 1 of 1

Company: Stratus Job and Purchase Order Info: Job # \_\_\_\_\_ Job Name: Olympic station Report Attention/Project Manager: Scott QC Deliverable Info: EDD Required? Yes / No \_\_\_\_\_ EDF Required? Yes / No \_\_\_\_\_ Global ID: T0600102256 Data Validation Packages: III or IV

Address: \_\_\_\_\_ P.O. # \_\_\_\_\_ Email Address: \_\_\_\_\_ Phone #: \_\_\_\_\_ Cell #: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Samples Collected from which State? (circle one) AR  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?		Analysis Requested				Remarks	
							Yes	No						
0615	7/15	AQ		MW-5A	STD	3	X		X	X	X			
0630	7/15	AQ		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: PHILL  
 Relinquished by: (Signature/Affiliation): Stratus Date: 7/14/15 Time: 1053  
 Received by: (Signature/Affiliation): Maryssa T Date: 7-14-15 Time: 1053

\* Key: AQ - Aqueous OT - Other So-Soil WA - Waste \*\* B - Brass L - Litter O - Orbo OT - Other P - Plastic S-Soil Jar T - Tedlar V - VOA  
 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.

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

Date: 2-1-15  
 Onsite Time: 0530  
 Offsite Time: 0700

Technician: DHILL  
 Project Engineer: Debbow  
 Weather Conditions: Clear  
 Ambient Temperature: 50

System Information			
System Status Upon Arrival:	Operational <input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>	<i>Turn off sample wells 2 weeks</i>
System Status Upon Departure:	Operational <input type="checkbox"/>	Non-Operational <input checked="" type="checkbox"/>	
Hour Meter Reading:	<u>6929</u>		
Totalizer Reading on DPE Unit:	<u>1122860</u>		Chart Recorder Paper Replaced <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1456</u>		% Dilution Valve Open: <u>82</u>
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F): _____			
pH Meter Calibration _____			

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>1600</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC"/Hg	<u>14" Hg</u>						
Temperature, deg F		<u>95</u>					
PID Readings, ppmv		<u>5</u>	<u>2.4</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/Hg	DTW
EX-1	<u>100</u>				MW-1	<u>8</u>	<u>8.52</u>
EX-2					MW-2	<u>-0.28</u>	<u>8.10</u>
EX-3					MW-3	<u>-0.03</u>	<u>8.61</u>
EX-4					MW-4	<u>Clear</u>	
EX-5					MW-5A	<u>system</u>	
EX-6					MW-6A	<u>system</u>	
EX-7							
<u>MW 5A</u>	<u>100</u>						
<u>MW 6A</u>	<u>100</u>						

**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	7/15 0603	W INF	7/15 0553
A EFF	) 0600	W GAC1	0550
		W GAC2	0543
		W EFF	0540

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-resettable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm
Pick up Trash

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: 7-14-15  
Onsite Time: 0515  
Offsite Time: 0645

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

System Information			
System Status Upon Arrival:	Operational <input type="checkbox"/>	Non-Operational <input checked="" type="checkbox"/>	
System Status Upon Departure:	Operational <input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>	
Hour Meter Reading:	<u>6930</u>		
Totalizer Reading on DPE Unit:	<u>1122990</u>	Chart Recorder Paper Replaced <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Combustion Chamber Operating Temperature:	<u>1450</u>	% Dilution Valve Open: <u>2</u>	
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	
		pH Meter Calibration	<u>7-2-15</u>

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>1450</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC/"Hg	<u>15" Hg</u>						
Temperature, deg F		<u>80</u>	<u>1376</u>				
PID Readings, ppmv		<u>75</u>	<u>1.2</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/"Hg	DTW
EX-1	<u>100</u>				MW-1		
EX-2	<u>2</u>				MW-2		
EX-3	<u>1</u>				MW-3		
EX-4	<u>1</u>				MW-4		
EX-5	<u>1</u>				MW-5A		
EX-6	<u>1</u>				MW-6A		
EX-7	<u>0</u>						
MW 5A	<u>100</u>						
MW 6A	<u>100</u>						

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



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-resettable 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



Date: 8-3-15  
Onsite Time: 0600  
Offsite Time: 0700

Technician: OHILL  
Project Engineer: Debbel  
Weather Conditions: cloudy  
Ambient Temperature: 50

System Information			
System Status Upon Arrival:	Operational	<input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>
System Status Upon Departure:	Operational	<input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>
Hour Meter Reading:	<u>7410</u>		
Totalizer Reading on DPE Unit:	<u>1220100</u>	Chart Recorder Paper Replaced	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1450</u>	% Dilution Valve Open:	<u>8</u>
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	
		pH Meter Calibration	<u>7-31-15</u>

Field Measurements				
Parameter	Influent (Total)	System-Influent	Effluent	Comments
Differential Pressure, "wc				
Air Velocity, FPM		<u>1600</u>		
Pipe Diameter, inches		<u>3</u>		
Air Flow Rate, cfm				
Applied Vacuum, "WC"/Hg	<u>12" Hg</u>			
Temperature, deg F		<u>96</u>	<u>1125</u>	
PID Readings, ppmv		<u>5</u>	<u>2.8</u>	

Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/Hg	DTW
EX-1	<u>100</u>				MW-1	<u>0</u>	<u>8.72</u>
EX-2					MW-2	<u>-0.22</u>	<u>8.40</u>
EX-3					MW-3	<u>-0.19</u>	<u>9.38</u>
EX-4					MW-4	<u>CHIZ</u>	
EX-5					MW-5A		
EX-6	<u>10%</u>				MW-6A		
EX-7							
<u>MW 5A</u>	<u>100</u>						
<u>MW 6A</u>	<u>100</u>						

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	8-315 0624	W INF	8-315 0623
A EFF	) 0627	W GAC1	) 0620
		W GAC2	) 0615
		W EFF	) 0610

~~TIME~~  
~~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-resettable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm
<p>PH Temp Cond</p> <p>JWF 7.74 20.4 821.1</p> <p>RFF 7.50 20.1 840.6</p>

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: 8-18-15  
Onsite Time: 0500  
Offsite Time: 0630

Technician: CHILL  
Project Engineer: Rebecca  
Weather Conditions: Cloudy  
Ambient Temperature: 50

System Information			
System Status Upon Arrival:	Operational <input type="checkbox"/>	Non-Operational <input checked="" type="checkbox"/>	<i>Flange open</i>
System Status Upon Departure:	Operational <input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>	
Hour Meter Reading:	<u>7725</u>		
Totalizer Reading on DPE Unit:	<u>1267680</u>	Chart Recorder Paper Replaced <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Combustion Chamber Operating Temperature:	<u>1460</u>	% Dilution Valve Open: <u>0</u>	
	If open, dilution air flowrate, (fpm/cfm) and Temp (deg F): _____		
	pH Meter Calibration _____		

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>1500</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC"/Hg	<u>12" Hg</u>						
Temperature, deg F		<u>90</u>	<u>1105</u>				
PID Readings, ppmv		<u>3</u>	<u>0.8</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/Hg	DTW
EX-1	<u>100</u>				MW-1		
EX-2					MW-2		
EX-3					MW-3		
EX-4					MW-4		
EX-5					MW-5A		
EX-6	<u>25</u>				MW-6A		
EX-7							
MW 5A	<u>100</u>						
MW 6A	<u>100</u>						

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



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-resettable 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: 9/15  
Onsite Time: 0500  
Offsite Time: 0610

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

System Information	
System Status Upon Arrival:	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
System Status Upon Departure:	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Hour Meter Reading:	<u>7903</u>
Totalizer Reading on DPE Unit:	<u>1299690</u>
Chart Recorder Paper Replaced:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1460</u>
% Dilution Valve Open:	<u>0</u>
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	
pH Meter Calibration	<u>8-28-15</u>

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>1500</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC/Hg	<u>12.5</u>						
Temperature, deg F		<u>90</u>	<u>1360</u>				
PID Readings, ppmv		<u>2</u>	<u>2.5</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum (WC/Hg)	DTW
EX-1	<u>100</u>				MW-1	<u>-0.01</u>	<u>8.75</u>
EX-2					MW-2	<u>-0.20</u>	<u>8.37</u>
EX-3					MW-3	<u>-0.18</u>	<u>9.13</u>
EX-4					MW-4	<u>-0.57</u>	<u>9.00</u>
EX-5					MW-5A		
EX-6	<u>10</u>				MW-6A		
EX-7							
MW-5A	<u>100</u>						
MW-6A	<u>100</u>						

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



Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF	9-1-15 0520	W INF	9-1-15 0528
A EFF	) 0518	W GAC1	) 0526
		W GAC2	0523
		W EFF	0521

INF 7.24  
EFF 7.38

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-resettable 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: 9.22-15  
Onsite Time: 0445  
Offsite Time: 0530

Technician: PHILL  
Project Engineer: Dabbini  
Weather Conditions: Clear  
Ambient Temperature: 50

System Information			
System Status Upon Arrival:	Operational	<input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>
System Status Upon Departure:	Operational	<input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>
Hour Meter Reading:	<u>8407</u>		
Totalizer Reading on DPE Unit:	<u>1394790</u>	Chart Recorder Paper Replaced	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1450</u>	% Dilution Valve Open:	<u>2</u>
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	
		pH Meter Calibration	

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>1600</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC"/Hg	<u>12"</u>						
Temperature, deg F		<u>90</u>	<u>1125</u>				
PID Readings, ppmv		<u>30</u>	<u>2.9</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/Hg	DTW
EX-1	<u>100</u>				MW-1	<u>2</u>	<u>8.98</u>
EX-2					MW-2	<u>-0.17</u>	<u>8.62</u>
EX-3					MW-3	<u>-0.15</u>	<u>9.38</u>
EX-4					MW-4	<u>-0.57</u>	<u>9.03</u>
EX-5					MW-5A	<u>-</u>	
EX-6	<u>100</u>				MW-6A	<u>-</u>	
EX-7							
MW 5A	<u>100</u>						
MW 6A	<u>100</u>						

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



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-resettable 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**

## APPENDIX B

### SAMPLING AND ANALYSIS PROCEDURES

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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 typically 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 according 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, nonconformants, 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<sup>®</sup> 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<sup>®</sup> sheeting and plastic caps. The sample is then placed in a Ziploc<sup>®</sup> 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 : 07/15/15

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 : STR15071541-01A	TPH-P (GRO)	2,800	400 µg/L	07/21/15	07/21/15
Date Sampled 07/14/15 06:15	Methyl tert-butyl ether (MTBE)	13	2.0 µg/L	07/21/15	07/21/15
	Benzene	390	2.0 µg/L	07/21/15	07/21/15
	Toluene	ND	2.0 µg/L	07/21/15	07/21/15
	Ethylbenzene	130	2.0 µg/L	07/21/15	07/21/15
	m,p-Xylene	40	2.0 µg/L	07/21/15	07/21/15
	o-Xylene	ND	2.0 µg/L	07/21/15	07/21/15
Client ID : MW-6A					
Lab ID : STR15071541-02A	TPH-P (GRO)	4,400	1,000 µg/L	07/21/15	07/21/15
Date Sampled 07/14/15 06:30	Methyl tert-butyl ether (MTBE)	99	5.0 µg/L	07/21/15	07/21/15
	Benzene	930	5.0 µg/L	07/21/15	07/21/15
	Toluene	ND	5.0 µg/L	07/21/15	07/21/15
	Ethylbenzene	200	5.0 µg/L	07/21/15	07/21/15
	m,p-Xylene	190	5.0 µg/L	07/21/15	07/21/15
	o-Xylene	73	5.0 µg/L	07/21/15	07/21/15

Gasoline Range Organics (GRO) C4-C13

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

ND = Not Detected

Reported in micrograms per Liter, per client request.



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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 in 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.



*AS*  
7/22/15

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: STR15071541

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15071541-01A	MW-5A	Aqueous	2
15071541-02A	MW-6A	Aqueous	2

7/22/15

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:  
22-Jul-15

## QC Summary Report

Work Order:  
15071541

Method Blank		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15072104.D			Batch ID: MS15W0721B				Analysis Date: 07/21/2015 11:17			
Sample ID:	MBLK MS15W0721B	Units : µg/L	Run ID: MSD_15_150721A		Prep Date: 07/21/2015 11:17					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.71		10		97	70	130			
Surr: Toluene-d8	10.8		10		108	70	130			
Surr: 4-Bromofluorobenzene	9.24		10		92	70	130			

Laboratory Control Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15072103.D			Batch ID: MS15W0721B				Analysis Date: 07/21/2015 10:53			
Sample ID:	GLCS MS15W0721B	Units : µg/L	Run ID: MSD_15_150721A		Prep Date: 07/21/2015 10:53					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	382	50	400		95	70	130			
Surr: 1,2-Dichloroethane-d4	9.65		10		97	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	9.11		10		91	70	130			

Sample Matrix Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15072128.D			Batch ID: MS15W0721B				Analysis Date: 07/21/2015 21:03			
Sample ID:	15071706-01AGS	Units : µg/L	Run ID: MSD_15_150721A		Prep Date: 07/21/2015 21:03					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1500	250	2000		0	75	54	143		
Surr: 1,2-Dichloroethane-d4	50.4		50		101	70	130			
Surr: Toluene-d8	52.4		50		105	70	130			
Surr: 4-Bromofluorobenzene	43.1		50		86	70	130			

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15072129.D			Batch ID: MS15W0721B				Analysis Date: 07/21/2015 21:27			
Sample ID:	15071706-01AGSD	Units : µg/L	Run ID: MSD_15_150721A		Prep Date: 07/21/2015 21:27					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1980	250	2000		0	99	54	143	1500	27.5(23) R5
Surr: 1,2-Dichloroethane-d4	48.3		50		97	70	130			
Surr: Toluene-d8	52.8		50		106	70	130			
Surr: 4-Bromofluorobenzene	45.1		50		90	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.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

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:  
22-Jul-15

## QC Summary Report

Work Order:  
15071541

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15072104.D

Batch ID: MS15W0721A

Analysis Date: 07/21/2015 11:17

Sample ID: MBLK MS15W0721A

Units: µg/L

Run ID: MSD\_15\_150721A

Prep Date: 07/21/2015 11:17

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	9.71		10		97	70	130			
Surr: Toluene-d8	10.8		10		108	70	130			
Surr: 4-Bromofluorobenzene	9.24		10		92	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15072102.D

Batch ID: MS15W0721A

Analysis Date: 07/21/2015 10:28

Sample ID: LCS MS15W0721A

Units: µg/L

Run ID: MSD\_15\_150721A

Prep Date: 07/21/2015 10:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.61	0.5	10		86	63	137			
Benzene	9.05	0.5	10		91	70	130			
Toluene	10.5	0.5	10		105	70	130			
Ethylbenzene	9.88	0.5	10		99	70	130			
m,p-Xylene	10.8	0.5	10		108	65	139			
o-Xylene	10.7	0.5	10		107	70	130			
Surr: 1,2-Dichloroethane-d4	9.48		10		95	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	9.19		10		92	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 15072126.D

Batch ID: MS15W0721A

Analysis Date: 07/21/2015 20:14

Sample ID: 15071706-01AMS

Units: µg/L

Run ID: MSD\_15\_150721A

Prep Date: 07/21/2015 20:14

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	59.2	1.3	50		0	118	56	140		
Benzene	53.9	1.3	50		0	108	67	134		
Toluene	58.6	1.3	50	0.56	116	38	130			
Ethylbenzene	53.4	1.3	50		0	107	70	130		
m,p-Xylene	57.3	1.3	50		0	115	65	139		
o-Xylene	59.9	1.3	50		0	120	69	130		
Surr: 1,2-Dichloroethane-d4	49.9		50		99.9	70	130			
Surr: Toluene-d8	50.6		50		101	70	130			
Surr: 4-Bromofluorobenzene	44.4		50		89	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 15072127.D

Batch ID: MS15W0721A

Analysis Date: 07/21/2015 20:38

Sample ID: 15071706-01AMSD

Units: µg/L

Run ID: MSD\_15\_150721A

Prep Date: 07/21/2015 20:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	49.2	1.3	50		0	98	56	140	59.15	18.4(40)
Benzene	45	1.3	50		0	90	67	134	53.86	18.0(21)
Toluene	49.2	1.3	50	0.56	97	38	130	58.55	17.5(20)	
Ethylbenzene	43.6	1.3	50		0	87	70	130	53.35	20.0(20)
m,p-Xylene	46.7	1.3	50		0	93	65	139	57.29	20.5(20)
o-Xylene	49.8	1.3	50		0	99.6	69	130	59.87	18.3(20)
Surr: 1,2-Dichloroethane-d4	48.3		50		97	70	130			
Surr: Toluene-d8	51.3		50		103	70	130			
Surr: 4-Bromofluorobenzene	44.3		50		89	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:  
22-Jul-15

## QC Summary Report

Work Order:  
15071541

**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.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

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 : STR15071541**  
**Report Due By : 5:00 PM On : 22-Jul-15**

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

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

EDD Required : Yes

Sampled by : C. Hill

**PO :**  
 Client's COC # : 04344                      Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	15-Jul-15	15-Jul-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests							Sample Remarks	
				TPHP_W	VOC_W							
STR15071541-01A	MW-5A	AQ 07/14/15 06:15	3 0 5	GAS-C	BTEX/M_C							
STR15071541-02A	MW-6A	AQ 07/14/15 06:30	3 0 5	GAS-C	BTEX/M_C							

Comments: Security seals intact. Frozen ice. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	7/15/15 1005

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

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

Company: Stankes  
 Attn: 3330 Cameron Pk Dr  
 Address: Cameron Park  
 City, State, Zip: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



**Alpha Analytical, Inc.**  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
**Satellite Service Centers:**  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

04344  
 Page # 1 of 1

**Consultant/Client Info:** Company: Stankes  
**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: T0600102256  
 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 (MMDD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered?		Analysis Requested			Remarks
							Yes	No	GRD	BYX	MYBE	
0615	7/15	AQ	STR150715A-01A	MW-5A	STD	3	X	X	X	X		
0630	7/15	AQ	↓ -02A	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: <u>PHILL</u>	Date: <u>7/14/15</u>	Time: <u>1053</u>	Received by: (Signature/Affiliation): <u>Myssa J</u>	Date: <u>7-14-15</u>	Time: <u>1053</u>
Relinquished by: (Signature/Affiliation): <u>Stankes</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>Will</u>	Date: <u>7/15/15</u>	Time: <u>1000</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

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

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: Scott Bittinger  
Phone: (530) 676-2062  
Fax: (530) 676-6005  
Date Received : 07/02/15

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 : Oly A SYS INF					
Lab ID : STR15070246-01A	TPH-P (GRO)	ND	20 mg/m <sup>3</sup>	07/02/15 10:54	07/09/15
Date Sampled 07/01/15 06:03	Methyl tert-butyl ether (MTBE)	0.28	0.20 mg/m <sup>3</sup>	07/02/15 10:54	07/09/15
	Benzene	ND	0.20 mg/m <sup>3</sup>	07/02/15 10:54	07/09/15
	Toluene	ND	0.20 mg/m <sup>3</sup>	07/02/15 10:54	07/09/15
	Ethylbenzene	ND	0.20 mg/m <sup>3</sup>	07/02/15 10:54	07/09/15
	m,p-Xylene	ND	0.20 mg/m <sup>3</sup>	07/02/15 10:54	07/09/15
	o-Xylene	ND	0.20 mg/m <sup>3</sup>	07/02/15 10:54	07/09/15
Client ID : Oly W INF					
Lab ID : STR15070246-02A	TPH-P (GRO)	ND	50 µg/L	07/09/15	07/09/15
Date Sampled 07/01/15 05:55	Methyl tert-butyl ether (MTBE)	6.9	0.50 µg/L	07/09/15	07/09/15
	Benzene	ND	0.50 µg/L	07/09/15	07/09/15
	Toluene	ND	0.50 µg/L	07/09/15	07/09/15
	Ethylbenzene	ND	0.50 µg/L	07/09/15	07/09/15
	m,p-Xylene	ND	0.50 µg/L	07/09/15	07/09/15
	o-Xylene	ND	0.50 µg/L	07/09/15	07/09/15
Client ID : Oly W GAC1					
Lab ID : STR15070246-03A	TPH-P (GRO)	ND	50 µg/L	07/09/15	07/09/15
Date Sampled 07/01/15 05:50	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/09/15	07/09/15
	Benzene	ND	0.50 µg/L	07/09/15	07/09/15
	Toluene	ND	0.50 µg/L	07/09/15	07/09/15
	Ethylbenzene	ND	0.50 µg/L	07/09/15	07/09/15
	m,p-Xylene	ND	0.50 µg/L	07/09/15	07/09/15
	o-Xylene	ND	0.50 µg/L	07/09/15	07/09/15
Client ID : Oly W GAC2					
Lab ID : STR15070246-04A	TPH-P (GRO)	ND	50 µg/L	07/09/15	07/09/15
Date Sampled 07/01/15 05:43	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/09/15	07/09/15
	Benzene	ND	0.50 µg/L	07/09/15	07/09/15
	Toluene	ND	0.50 µg/L	07/09/15	07/09/15
	Ethylbenzene	ND	0.50 µg/L	07/09/15	07/09/15
	m,p-Xylene	ND	0.50 µg/L	07/09/15	07/09/15
	o-Xylene	ND	0.50 µg/L	07/09/15	07/09/15



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---

Gasoline Range Organics (GRO) C4-C13

Note: For sample -01A concentrations of air in a Tedlar Bag are at 29 degrees Celsius and 25.66 inches of mercury.

ND = Not Detected

Reported in micrograms per Liter, per client request.



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / [info@alpha-analytical.com](mailto: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 in any way.



*[Signature]*

7/10/15

Report Date

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.



# Alpha Analytical, Inc.

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Date:  
10-Jul-15

## QC Summary Report

Work Order:  
15070246

### Method Blank

File ID: 15070912.D

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

Batch ID: MS09A0709B

Analysis Date: 07/09/2015 15:40

Sample ID: MBLK MS09A0709B

Units : mg/m<sup>3</sup>

Run ID: MSD\_09\_150709A

Prep Date: 07/09/2015 15:40

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.76		2		88	70	130			
Surr: Toluene-d8	2.05		2		103	70	130			
Surr: 4-Bromofluorobenzene	1.87		2		94	70	130			

### Laboratory Control Spike

File ID: 15070905.D

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

Batch ID: MS09A0709B

Analysis Date: 07/09/2015 11:46

Sample ID: GLCS MS09A0709B

Units : mg/m<sup>3</sup>

Run ID: MSD\_09\_150709A

Prep Date: 07/09/2015 11:46

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	401	10	400		100	70	130			
Surr: 1,2-Dichloroethane-d4	8.61		10		86	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.5		10		95	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.



# Alpha Analytical, Inc.

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Date:  
10-Jul-15

## QC Summary Report

Work Order:  
15070246

### Method Blank

File ID: 15070904.D

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

Batch ID: MS15W0709B

Analysis Date: 07/09/2015 10:23

Sample ID: MBLK MS15W0709B

Units: µg/L

Run ID: MSD\_15\_150709A

Prep Date: 07/09/2015 10:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.29		10		93	70	130			
Surr: Toluene-d8	11.6		10		116	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130			

### Laboratory Control Spike

File ID: 15070903.D

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

Batch ID: MS15W0709B

Analysis Date: 07/09/2015 09:45

Sample ID: GLCS MS15W0709B

Units: µg/L

Run ID: MSD\_15\_150709A

Prep Date: 07/09/2015 09:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	395	50	400		99	70	130			
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	11		10		110	70	130			
Surr: 4-Bromofluorobenzene	9.7		10		97	70	130			

### Sample Matrix Spike

File ID: 15070928.D

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

Batch ID: MS15W0709B

Analysis Date: 07/09/2015 20:09

Sample ID: 15070942-01AGS

Units: µg/L

Run ID: MSD\_15\_150709A

Prep Date: 07/09/2015 20:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1780	250	2000		0 89	54	143			
Surr: 1,2-Dichloroethane-d4	52.9		50		106	70	130			
Surr: Toluene-d8	53.4		50		107	70	130			
Surr: 4-Bromofluorobenzene	44.7		50		89	70	130			

### Sample Matrix Spike Duplicate

File ID: 15070929.D

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

Batch ID: MS15W0709B

Analysis Date: 07/09/2015 20:34

Sample ID: 15070942-01AGSD

Units: µg/L

Run ID: MSD\_15\_150709A

Prep Date: 07/09/2015 20:34

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1760	250	2000		0 88	54	143	1776	0.8(23)	
Surr: 1,2-Dichloroethane-d4	53.1		50		106	70	130			
Surr: Toluene-d8	53.9		50		108	70	130			
Surr: 4-Bromofluorobenzene	45		50		90	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.

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

Date:  
10-Jul-15

## QC Summary Report

Work Order:  
15070246

### Method Blank

File ID: 15070912.D

Type MBLK Test Code: EPA Method SW8260B

Batch ID: MS09A0709A

Analysis Date: 07/09/2015 15:40

Sample ID: MBLK MS09A0709A

Units: mg/m<sup>3</sup>

Run ID: MSD\_09\_150709A

Prep Date: 07/09/2015 15:40

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.76		2		88	70	130			
Surr: Toluene-d8	2.05		2		103	70	130			
Surr: 4-Bromofluorobenzene	1.87		2		94	70	130			

### Laboratory Control Spike

File ID: 15070906.D

Type LCS Test Code: EPA Method SW8260B

Batch ID: MS09A0709A

Analysis Date: 07/09/2015 12:41

Sample ID: LCS MS09A0709A

Units: mg/m<sup>3</sup>

Run ID: MSD\_09\_150709A

Prep Date: 07/09/2015 12:41

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.5	0.1	10		105	63	137			
Benzene	9.46	0.1	10		95	70	130			
Toluene	9.3	0.1	10		93	70	130			
Ethylbenzene	8.29	0.1	10		83	70	130			
m,p-Xylene	8.19	0.1	10		82	65	139			
o-Xylene	8.33	0.1	10		83	70	130			
Surr: 1,2-Dichloroethane-d4	7.62		10		76	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.75		10		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.



# Alpha Analytical, Inc.

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

Date:  
10-Jul-15

## QC Summary Report

Work Order:  
15070246

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15070904.D

Batch ID: MS15W0709A

Analysis Date: 07/09/2015 10:23

Sample ID: MBLK MS15W0709A

Units: µg/L

Run ID: MSD\_15\_150709A

Prep Date: 07/09/2015 10:23

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	9.29		10		93	70	130			
Surr: Toluene-d8	11.6		10		116	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15070902.D

Batch ID: MS15W0709A

Analysis Date: 07/09/2015 09:21

Sample ID: LCS MS15W0709A

Units: µg/L

Run ID: MSD\_15\_150709A

Prep Date: 07/09/2015 09:21

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	7.99	0.5	10		80	63	137			
Benzene	7.82	0.5	10		78	70	130			
Toluene	9.3	0.5	10		93	70	130			
Ethylbenzene	9.08	0.5	10		91	70	130			
m,p-Xylene	9.43	0.5	10		94	65	139			
o-Xylene	9.45	0.5	10		95	70	130			
Surr: 1,2-Dichloroethane-d4	10.3		10		103	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	9.28		10		93	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 15070926.D

Batch ID: MS15W0709A

Analysis Date: 07/09/2015 19:20

Sample ID: 15070942-01AMS

Units: µg/L

Run ID: MSD\_15\_150709A

Prep Date: 07/09/2015 19:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.8	1.3	50	0	78	56	140			
Benzene	33.3	1.3	50	0	67	67	134			M2
Toluene	38.6	1.3	50	0	77	38	130			
Ethylbenzene	37.2	1.3	50	0	74	70	130			
m,p-Xylene	39	1.3	50	0	78	65	139			
o-Xylene	39.6	1.3	50	0	79	69	130			
Surr: 1,2-Dichloroethane-d4	54.3		50		109	70	130			
Surr: Toluene-d8	51.2		50		102	70	130			
Surr: 4-Bromofluorobenzene	44.2		50		88	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 15070927.D

Batch ID: MS15W0709A

Analysis Date: 07/09/2015 19:45

Sample ID: 15070942-01AMSD

Units: µg/L

Run ID: MSD\_15\_150709A

Prep Date: 07/09/2015 19:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	54	1.3	50	0	108	56	140	38.79	32.9(40)	
Benzene	47.7	1.3	50	0	95	67	134	33.25	35.7(21)	R5
Toluene	54.6	1.3	50	0	109	38	130	38.6	34.3(20)	R5
Ethylbenzene	52.6	1.3	50	0	105	70	130	37.2	34.3(20)	R5
m,p-Xylene	54.8	1.3	50	0	110	65	139	39.01	33.7(20)	R5
o-Xylene	57.2	1.3	50	0	114	69	130	39.55	36.5(20)	R5
Surr: 1,2-Dichloroethane-d4	53.4		50		107	70	130			
Surr: Toluene-d8	51.3		50		103	70	130			
Surr: 4-Bromofluorobenzene	43.8		50		88	70	130			



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

Date:  
10-Jul-15

## QC Summary Report

Work Order:  
15070246

**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.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

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

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# CA

WorkOrder : STR15070246  
Report Due By : 5:00 PM On : 10-Jul-15

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

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

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

EDD Required : Yes

Sampled by : C. Hill

PO :  
Client's COC # : 04328 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
2 °C	02-Jul-15	02-Jul-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	TPH/P_A	TPH/P_W	VOC_A	VOC_W						
STR15070246-01A	Oly A SYS INF	AR	07/01/15 06:03	1	0	5	GAS-N/C		BTEX/MTB E							Tedlar.
STR15070246-02A	Oly W INF	AQ	07/01/15 05:55	3	0	5		GAS-C		BTEX/M_C						
STR15070246-03A	Oly W GAC1	AQ	07/01/15 05:50	3	0	5		GAS-C		BTEX/M_C						
STR15070246-04A	Oly W GAC2	AQ	07/01/15 05:43	3	0	5		GAS-C		BTEX/M_C						

Comments: Security seals intact. Frozen ice. Chain split due to different TATs.:

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO.	Alpha Analytical, Inc.	7/2/15 1035

Logged in by: \_\_\_\_\_

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

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



Company: Stark's  
 Attn: Debbie  
 Address: 3330 Cambridge PE  
 City, State, Zip: Cambridge 1512 CA  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



**Alpha Analytical, Inc.**  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
**Satellite Service Centers:**  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-8089  
 Phone: 714-388-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

04328

Page # 1 of 1

Company: Stark's  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_

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

Report Attention/Project Manager: SLOTT  
 Name: \_\_\_\_\_  
 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 (H:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered?		Analysis Requested				Remarks
							Yes	No	GRD	BTEX	MTBE		
0603	7/5	RVZ	STR15070246-01A	Oly A SYS INF STD	1	1	X	X	X	X			
0600	7/5	AR		Oly A EFF	24	1	X	X	X	X			
0555	7/5	AR		-02A Oly W INF STD	3	3	X	X	X	X			
0550		AR		-03A Oly W GAZ 1 STD	3	3	X	X	X	X			
0543		AR		-04A Oly W GAZ 2 STD	3	3	X	X	X	X			
0540	7/15	AR		Oly W EFF	24	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: <u>CHILL</u>	Date: <u>7/15</u>	Time: <u>0222</u>	Received by: (Signature/Affiliation): <u>MENESSA T</u>	Date: <u>7-1-15</u>	Time: <u>1222</u>
Relinquished by: (Signature/Affiliation): <u>Chill Stark's</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>7/2/15</u>	Time: <u>1030</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

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

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  
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## 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 : 07/02/15

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: <b>Oly A EFF</b>				
Lab ID: STR15070242-01A	TPH-P (GRO)	ND	07/02/15 10:23	07/02/15
Date Sampled 07/01/15 06:00	Methyl tert-butyl ether (MTBE)	0.20 mg/m <sup>3</sup>	07/02/15 10:23	07/02/15
	Benzene	0.20 mg/m <sup>3</sup>	07/02/15 10:23	07/02/15
	Toluene	0.20 mg/m <sup>3</sup>	07/02/15 10:23	07/02/15
	Ethylbenzene	0.20 mg/m <sup>3</sup>	07/02/15 10:23	07/02/15
	m,p-Xylene	0.20 mg/m <sup>3</sup>	07/02/15 10:23	07/02/15
	o-Xylene	0.20 mg/m <sup>3</sup>	07/02/15 10:23	07/02/15
Client ID: <b>Oly W EFF</b>				
Lab ID: STR15070242-02A	TPH-P (GRO)	ND	07/02/15	07/02/15
Date Sampled 07/01/15 05:40	Methyl tert-butyl ether (MTBE)	0.50 µg/L	07/02/15	07/02/15
	Benzene	0.50 µg/L	07/02/15	07/02/15
	Toluene	0.50 µg/L	07/02/15	07/02/15
	Ethylbenzene	0.50 µg/L	07/02/15	07/02/15
	m,p-Xylene	0.50 µg/L	07/02/15	07/02/15
	o-Xylene	0.50 µg/L	07/02/15	07/02/15

### Gasoline Range Organics (GRO) C4-C13

Note: For sample -01A concentrations of air in a Tedlar Bag are at 29 degrees Celsius and 25.66 inches of mercury.

ND = Not Detected

Reported in micrograms per Liter, per client request.



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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 in any way.



*ps*

7/2/15

Report Date

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.



# Alpha Analytical, Inc.

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---

## VOC Sample Preservation Report

---

Work Order: STR15070242

Job: Olympic Station

---

Alpha's Sample ID

Client's Sample ID

Matrix

pH

15070242-02A

Oly W EFF

Aqueous

2

---

7/2/15

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:  
09-Jul-15

## QC Summary Report

Work Order:  
15070242

### Method Blank

File ID: 15070207.D

Sample ID: MBLK MS09A0702B

Analyte

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09A0702B

Analysis Date: 07/02/2015 12:23

Run ID: MSD\_09\_150702A

Prep Date: 07/02/2015 12:23

Units : mg/m<sup>3</sup>

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

TPH-P (GRO)

ND 10

Surr: 1,2-Dichloroethane-d4

1.81

2

91

70

130

Surr: Toluene-d8

2.01

2

101

70

130

Surr: 4-Bromofluorobenzene

1.9

2

95

70

130

### Laboratory Control Spike

File ID: 15070204.D

Sample ID: GLCS MS09A0702B

Analyte

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09A0702B

Analysis Date: 07/02/2015 11:02

Run ID: MSD\_09\_150702A

Prep Date: 07/02/2015 11:02

Units : mg/m<sup>3</sup>

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

TPH-P (GRO)

395 10

Surr: 1,2-Dichloroethane-d4

9.7

10

97

70

130

Surr: Toluene-d8

9.79

10

98

70

130

Surr: 4-Bromofluorobenzene

9.57

10

96

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.



# Alpha Analytical, Inc.

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Date:  
09-Jul-15

## QC Summary Report

Work Order:  
15070242

### Method Blank

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

File ID: C:\HPCHEM\MS10\DATA\150702\15070206.D

Batch ID: MS10W0702B

Analysis Date: 07/02/2015 13:09

Sample ID: MBLK MS10W0702B

Units: µg/L

Run ID: MSD\_10\_150702A

Prep Date: 07/02/2015 13:09

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		10		100	70	130			
Surr: Toluene-d8	9.56		10		96	70	130			
Surr: 4-Bromofluorobenzene	8.64		10		86	70	130			

### Laboratory Control Spike

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

File ID: C:\HPCHEM\MS10\DATA\150702\15070204.D

Batch ID: MS10W0702B

Analysis Date: 07/02/2015 12:21

Sample ID: GLCS MS10W0702B

Units: µg/L

Run ID: MSD\_10\_150702A

Prep Date: 07/02/2015 12:21

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	448	50	400		112	70	130			
Surr: 1,2-Dichloroethane-d4	9.88		10		99	70	130			
Surr: Toluene-d8	9.6		10		96	70	130			
Surr: 4-Bromofluorobenzene	8.85		10		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.

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

Date:  
09-Jul-15

## QC Summary Report

Work Order:  
15070242

### Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 15070207.D

Batch ID: MS09A0702A

Analysis Date: 07/02/2015 12:23

Sample ID: MBLK MS09A0702A

Units : mg/m<sup>3</sup>

Run ID: MSD\_09\_150702A

Prep Date: 07/02/2015 12:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.81		2		91	70	130			
Surr: Toluene-d8	2.01		2		101	70	130			
Surr: 4-Bromofluorobenzene	1.9		2		95	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 15070205.D

Batch ID: MS09A0702A

Analysis Date: 07/02/2015 11:28

Sample ID: LCS MS09A0702A

Units : mg/m<sup>3</sup>

Run ID: MSD\_09\_150702A

Prep Date: 07/02/2015 11:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	12.4	0.1	10		124	63	137			
Benzene	9.42	0.1	10		94	70	130			
Toluene	9.36	0.1	10		94	70	130			
Ethylbenzene	8.18	0.1	10		82	70	130			
m,p-Xylene	8.14	0.1	10		81	65	139			
o-Xylene	8.22	0.1	10		82	70	130			
Surr: 1,2-Dichloroethane-d4	9.46		10		95	70	130			
Surr: Toluene-d8	9.88		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.73		10		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.



# Alpha Analytical, Inc.

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

Date:  
09-Jul-15

## QC Summary Report

Work Order:  
15070242

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS10\DATA\150702\15070206.D

Batch ID: MS10W0702A

Analysis Date: 07/02/2015 13:09

Sample ID: MBLK MS10W0702A

Units: µg/L

Run ID: MSD\_10\_150702A

Prep Date: 07/02/2015 13:09

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		10		100	70	130			
Surr: Toluene-d8	9.56		10		96	70	130			
Surr: 4-Bromofluorobenzene	8.64		10		86	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS10\DATA\150702\15070203.D

Batch ID: MS10W0702A

Analysis Date: 07/02/2015 11:57

Sample ID: LCS MS10W0702A

Units: µg/L

Run ID: MSD\_10\_150702A

Prep Date: 07/02/2015 11:57

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.88	0.5	10		99	63	137			
Benzene	9.77	0.5	10		98	70	130			
Toluene	9.35	0.5	10		94	70	130			
Ethylbenzene	10.4	0.5	10		104	70	130			
m,p-Xylene	10.4	0.5	10		104	65	139			
o-Xylene	10.7	0.5	10		107	70	130			
Surr: 1,2-Dichloroethane-d4	10.3		10		103	70	130			
Surr: Toluene-d8	9.75		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.07		10		91	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS10\DATA\150702\15070221.D

Batch ID: MS10W0702A

Analysis Date: 07/02/2015 19:08

Sample ID: 15062520-01AMS

Units: µg/L

Run ID: MSD\_10\_150702A

Prep Date: 07/02/2015 19:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	57.8	1.3	50	0	116	56	140			
Benzene	60	1.3	50	0	120	67	134			
Toluene	56.7	1.3	50	0	113	38	130			
Ethylbenzene	62.9	1.3	50	0	126	70	130			
m,p-Xylene	62.6	1.3	50	0	125	65	139			
o-Xylene	64.7	1.3	50	0	129	69	130			
Surr: 1,2-Dichloroethane-d4	48.8		50		98	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	47.5		50		95	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS10\DATA\150702\15070222.D

Batch ID: MS10W0702A

Analysis Date: 07/02/2015 19:32

Sample ID: 15062520-01AMSD

Units: µg/L

Run ID: MSD\_10\_150702A

Prep Date: 07/02/2015 19:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	47.4	1.3	50	0	95	56	140	57.79	19.7(40)	
Benzene	49.6	1.3	50	0	99	67	134	60.04	19.0(21)	
Toluene	47.4	1.3	50	0	95	38	130	56.67	17.8(20)	
Ethylbenzene	52.6	1.3	50	0	105	70	130	62.91	17.9(20)	
m,p-Xylene	52.4	1.3	50	0	105	65	139	62.59	17.7(20)	
o-Xylene	54	1.3	50	0	108	69	130	64.68	18.1(20)	
Surr: 1,2-Dichloroethane-d4	47.8		50		96	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	48		50		96	70	130			



# *Alpha Analytical, Inc.*

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

**Date:**  
*09-Jul-15*

## **QC Summary Report**

**Work Order:**  
15070242

**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

# RUSH! CA

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

**WorkOrder : STR15070242**  
**Report Due By : 5:00 PM On : 02-Jul-15**

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

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

EDD Required : Yes

Sampled by : C. Hill

**PO :**  
 Client's COC # : 04328      Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
2 °C	02-Jul-15	02-Jul-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date	Alpha	Sub	TAT	Requested Tests						Sample Remarks		
							TPHP_A	TPHP_W	VOC_A	VOC_W					
STR15070242-01A	Oly A EFF	AR	07/01/15 06:00	1	0	0	GAS-NC		BTEX/MTB E						Tedlar.
STR15070242-02A	Oly W EFF	AQ	07/01/15 05:40	3	0	0		GAS-C	BTEX/M_C						

Comments: ASAP TAT. Security seals intact. Frozen ice. Chain split due to different TATs. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO.	Alpha Analytical, Inc.	7/15 955

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

Company: Starks  
 Attn: Debbie  
 Address: 3333 Cambridge Pk  
 City, State, Zip: Chillum PR CA  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave. Suite 21 Sparks, NV 89411  
 Satellite Service Centers:  
 Northern CA: 9801 Horn Road, Suite C Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lameille Hwy. #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 21, Las Vegas, NV 89120

Phone: 775-355-1043  
 Fax: 775-355-6406  
 Phone: 916-368-9289  
 Phone: 714-386-2901  
 Phone: 775-368-1043  
 Phone: 702-281-4848

04328  
 Page # 1 of 1

**Company/Client Info: Job and Purchase Order Info: Report Attention/Project Manager: QC Deliverable Info:**

Company: Starks Job #: \_\_\_\_\_ Job Name: CITYMPLE STARK Name: SLCIB  
 Address: \_\_\_\_\_ Job P.O. #: \_\_\_\_\_ Email Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_ P.O. #: \_\_\_\_\_ Phone #: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_ P.O. #: \_\_\_\_\_ Cell #: \_\_\_\_\_

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

Time Sampled (MM:SS)	Date Sampled (MM-DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Analysis Requested				Remarks
							Field Filtered?	CR	BTEX	MTBE	
							Yes	No			
0603	7-15	AR		Oily A SYSTEM STD		1	X	X	X	X	
0600	7-15	AR	STR15070242-01A	Oily A EFF	24	1	X	X	X	X	
0555	7-15	AR		Oily L INF STD		3	X	X	X	X	
0550		AR		Oily L GAL ( STD)		3	X	X	X	X	
0543		AR		Oily W GAL Z STD		3	X	X	X	X	
0540	7-15	AR	-02A	Oily W EFF	24	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: CHILL Date: 7-15 Time: 0222  
 Relinquished by (Signature/Affiliation): Chillum Starks Received by (Signature/Affiliation): Maryssa J  
 Relinquished by (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by (Signature/Affiliation): [Signature]  
 Relinquished by (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by (Signature/Affiliation): \_\_\_\_\_ Date: 7-1-15 Time: 1222  
 Relinquished by (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by (Signature/Affiliation): \_\_\_\_\_ Date: 7/2/15 Time: 950

\* Key: AQ - Aqueous OT - Other So - Soil WA - Waste \*\* B - Brass L - Litter O - Orbo OT - Other P - Plastic S - Soil Jar T - Tedlar V - VOA  
 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 received by the Laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. The report for the analysis of the above samples is applicable only to those samples



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## 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 : 08/04/15

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 :	<b>Oly A SYS INF</b>					
Lab ID :	STR15080445-01A	TPH-P (GRO)	ND	15 mg/m <sup>3</sup>	08/04/15 13:24	08/10/15
Date Sampled	08/03/15 06:29	Methyl tert-butyl ether (MTBE)	0.35	0.15 mg/m <sup>3</sup>	08/04/15 13:24	08/10/15
		Benzene	ND	0.15 mg/m <sup>3</sup>	08/04/15 13:24	08/10/15
		Toluene	ND	0.15 mg/m <sup>3</sup>	08/04/15 13:24	08/10/15
		Ethylbenzene	ND	0.15 mg/m <sup>3</sup>	08/04/15 13:24	08/10/15
		m,p-Xylene	ND	0.15 mg/m <sup>3</sup>	08/04/15 13:24	08/10/15
		o-Xylene	ND	0.15 mg/m <sup>3</sup>	08/04/15 13:24	08/10/15
Client ID :	<b>Oly W INF</b>					
Lab ID :	STR15080445-02A	TPH-P (GRO)	ND	50 µg/L	08/07/15	08/07/15
Date Sampled	08/03/15 06:23	Methyl tert-butyl ether (MTBE)	9.6	0.50 µg/L	08/07/15	08/07/15
		Benzene	ND	0.50 µg/L	08/07/15	08/07/15
		Toluene	ND	0.50 µg/L	08/07/15	08/07/15
		Ethylbenzene	ND	0.50 µg/L	08/07/15	08/07/15
		m,p-Xylene	ND	0.50 µg/L	08/07/15	08/07/15
		o-Xylene	ND	0.50 µg/L	08/07/15	08/07/15
Client ID :	<b>Oly W GAC1</b>					
Lab ID :	STR15080445-03A	TPH-P (GRO)	ND	50 µg/L	08/07/15	08/07/15
Date Sampled	08/03/15 06:20	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	08/07/15	08/07/15
		Benzene	ND	0.50 µg/L	08/07/15	08/07/15
		Toluene	ND	0.50 µg/L	08/07/15	08/07/15
		Ethylbenzene	ND	0.50 µg/L	08/07/15	08/07/15
		m,p-Xylene	ND	0.50 µg/L	08/07/15	08/07/15
		o-Xylene	ND	0.50 µg/L	08/07/15	08/07/15
Client ID :	<b>Oly W GAC2</b>					
Lab ID :	STR15080445-04A	TPH-P (GRO)	ND	50 µg/L	08/07/15	08/07/15
Date Sampled	08/03/15 06:15	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	08/07/15	08/07/15
		Benzene	ND	0.50 µg/L	08/07/15	08/07/15
		Toluene	ND	0.50 µg/L	08/07/15	08/07/15
		Ethylbenzene	ND	0.50 µg/L	08/07/15	08/07/15
		m,p-Xylene	ND	0.50 µg/L	08/07/15	08/07/15
		o-Xylene	ND	0.50 µg/L	08/07/15	08/07/15



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Gasoline Range Organics (GRO) C4-C13

Note: For sample -01A concentrations of air in a Tedlar Bag are at 29 degrees Celsius and 25.57 inches of mercury.

ND = Not Detected

Reported in micrograms per Liter, per client request.



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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 in 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.



*[Signature]*

8/11/15

Report Date



# Alpha Analytical, Inc.

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## VOC Sample Preservation Report

Work Order: STR15080445

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15080445-02A	Oly W INF	Aqueous	2
15080445-03A	Oly W GAC1	Aqueous	2
15080445-04A	Oly W GAC2	Aqueous	2

8/11/15  
Report Date



# Alpha Analytical, Inc.

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Date:  
11-Aug-15

## QC Summary Report

Work Order:  
15080445

### Method Blank

File ID: 15081015.D

Sample ID: MBLK MS15A0810B

Analyte

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15A0810B

Analysis Date: 08/10/2015 15:38

Units: mg/m<sup>3</sup>

Run ID: MSD\_15\_150810A

Prep Date: 08/10/2015 15:38

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

ND

10

Surr: 1,2-Dichloroethane-d4

1.99

2

100

70

130

Surr: Toluene-d8

2.12

2

106

70

130

Surr: 4-Bromofluorobenzene

1.75

2

88

70

130

### Laboratory Control Spike

File ID: 15081003.D

Sample ID: GLCS MS15A0810B

Analyte

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15A0810B

Analysis Date: 08/10/2015 10:40

Units: mg/m<sup>3</sup>

Run ID: MSD\_15\_150810A

Prep Date: 08/10/2015 10:40

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

356

10

400

89

70

130

Surr: 1,2-Dichloroethane-d4

9.33

10

93

70

130

Surr: Toluene-d8

10.7

10

107

70

130

Surr: 4-Bromofluorobenzene

9.68

10

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.



# Alpha Analytical, Inc.

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Date:  
11-Aug-15

## QC Summary Report

Work Order:  
15080445

**Method Blank**  
File ID: 15080704.D

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

Batch ID: MS15W0807B Analysis Date: 08/07/2015 11:46

Sample ID: MBLK MS15W0807B

Units: µg/L

Run ID: MSD\_15\_150807A

Prep Date: 08/07/2015 11:46

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.6		10		96	70	130			
Surr: Toluene-d8	11		10		110	70	130			
Surr: 4-Bromofluorobenzene	9.68		10		97	70	130			

**Laboratory Control Spike**

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

File ID: 15080703.D

Batch ID: MS15W0807B

Analysis Date: 08/07/2015 11:16

Sample ID: GLCS MS15W0807B

Units: µg/L

Run ID: MSD\_15\_150807A

Prep Date: 08/07/2015 11:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	376	50	400		94	70	130			
Surr: 1,2-Dichloroethane-d4	9.75		10		98	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	9.51		10		95	70	130			

**Sample Matrix Spike**

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

File ID: 15080723.D

Batch ID: MS15W0807B

Analysis Date: 08/07/2015 19:38

Sample ID: 15080543-05AGS

Units: µg/L

Run ID: MSD\_15\_150807A

Prep Date: 08/07/2015 19:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1840	250	2000	0	92	54	143			
Surr: 1,2-Dichloroethane-d4	53.5		50		107	70	130			
Surr: Toluene-d8	51.5		50		103	70	130			
Surr: 4-Bromofluorobenzene	44.4		50		89	70	130			

**Sample Matrix Spike Duplicate**

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

File ID: 15081014.D

Batch ID: MS15W0807B

Analysis Date: 08/10/2015 15:13

Sample ID: 15080543-05AGSD

Units: µg/L

Run ID: MSD\_15\_150807A

Prep Date: 08/10/2015 15:13

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2460	250	2000	0	123	54	143	1836	29.2(23)	R5
Surr: 1,2-Dichloroethane-d4	52.5		50		105	70	130			
Surr: Toluene-d8	52.1		50		104	70	130			
Surr: 4-Bromofluorobenzene	43.6		50		87	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.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



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Date:  
11-Aug-15

## QC Summary Report

Work Order:  
15080445

### Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 15081015.D

Batch ID: MS15A0810A

Analysis Date: 08/10/2015 15:38

Sample ID: MBLK MS15A0810A

Units : mg/m<sup>3</sup>

Run ID: MSD\_15\_150810A

Prep Date: 08/10/2015 15:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.99		2		100	70	130			
Surr: Toluene-d8	2.12		2		106	70	130			
Surr: 4-Bromofluorobenzene	1.75		2		88	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 15081002.D

Batch ID: MS15A0810A

Analysis Date: 08/10/2015 10:10

Sample ID: LCS MS15A0810A

Units : mg/m<sup>3</sup>

Run ID: MSD\_15\_150810A

Prep Date: 08/10/2015 10:10

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.4	0.1	10		104	63	137			
Benzene	9.23	0.1	10		92	70	130			
Toluene	10.7	0.1	10		107	70	130			
Ethylbenzene	9.81	0.1	10		98	70	130			
m,p-Xylene	10.9	0.1	10		109	65	139			
o-Xylene	10.9	0.1	10		109	70	130			
Surr: 1,2-Dichloroethane-d4	9.79		10		98	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.1		10		91	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.





# Alpha Analytical, Inc.

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

Date:  
11-Aug-15

## QC Summary Report

Work Order:  
15080445

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15080704.D

Batch ID: MS15W0807A

Analysis Date: 08/07/2015 11:46

Sample ID: MBLK MS15W0807A

Units: µg/L

Run ID: MSD\_15\_150807A

Prep Date: 08/07/2015 11:46

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	9.6		10		96	70	130			
Surr: Toluene-d8	11		10		110	70	130			
Surr: 4-Bromofluorobenzene	9.68		10		97	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15080702.D

Batch ID: MS15W0807A

Analysis Date: 08/07/2015 10:49

Sample ID: LCS MS15W0807A

Units: µg/L

Run ID: MSD\_15\_150807A

Prep Date: 08/07/2015 10:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.02	0.5	10		90	63	137			
Benzene	8.28	0.5	10		83	70	130			
Toluene	9.5	0.5	10		95	70	130			
Ethylbenzene	8.81	0.5	10		88	70	130			
m,p-Xylene	9.69	0.5	10		97	65	139			
o-Xylene	9.75	0.5	10		98	70	130			
Surr: 1,2-Dichloroethane-d4	10.3		10		103	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	9.09		10		91	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 15080722.D

Batch ID: MS15W0807A

Analysis Date: 08/07/2015 19:13

Sample ID: 15080543-05AMS

Units: µg/L

Run ID: MSD\_15\_150807A

Prep Date: 08/07/2015 19:13

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	51.2	1.3	50	0	102	56	140			
Benzene	45.8	1.3	50	0	92	67	134			
Toluene	51.1	1.3	50	0	102	38	130			
Ethylbenzene	48.2	1.3	50	0	96	70	130			
m,p-Xylene	52.7	1.3	50	0	105	65	139			
o-Xylene	53.3	1.3	50	0	107	69	130			
Surr: 1,2-Dichloroethane-d4	52.8		50		106	70	130			
Surr: Toluene-d8	50.2		50		100	70	130			
Surr: 4-Bromofluorobenzene	43.9		50		88	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 15081011.D

Batch ID: MS15W0807A

Analysis Date: 08/10/2015 14:00

Sample ID: 15080543-05AMSD

Units: µg/L

Run ID: MSD\_15\_150807A

Prep Date: 08/10/2015 14:00

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	54.3	1.3	50	0	109	56	140	51.24	5.8(40)	
Benzene	45.5	1.3	50	0	91	67	134	45.75	0.5(21)	
Toluene	50.6	1.3	50	0	101	38	130	51.14	1.0(20)	
Ethylbenzene	46.2	1.3	50	0	92	70	130	48.19	4.2(20)	
m,p-Xylene	51	1.3	50	0	102	65	139	52.72	3.4(20)	
o-Xylene	51.5	1.3	50	0	103	69	130	53.29	3.4(20)	
Surr: 1,2-Dichloroethane-d4	50.7		50		101	70	130			
Surr: Toluene-d8	50.8		50		102	70	130			
Surr: 4-Bromofluorobenzene	43.2		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:**  
*11-Aug-15*

## QC Summary Report

**Work Order:**  
15080445

**Comments:**

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

# CHAIN-OF-CUSTODY RECORD

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

## CA

**WorkOrder : STR15080445**  
**Report Due By : 5:00 PM On : 11-Aug-15**

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

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

EDD Required : Yes

Sampled by : C. Hill

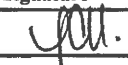
**PO :**  
 Client's COC # : 04321                      Job : Olympic Station

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
0 °C	04-Aug-15	04-Aug-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests							Sample Remarks		
							Alpha	Sub	TAT	TPH/P_A	TPH/P_W	VOC_A	VOC_W			
STR15080445-01A	Oly A SYS INF	AR	08/03/15 06:29	1	0	5	GAS-N/C		BTEX/MTB E							Tedlar.
STR15080445-02A	Oly W INF	AQ	08/03/15 06:23	3	0	5		GAS-C		BTEX/M_C						
STR15080445-03A	Oly W GAC1	AQ	08/03/15 06:20	3	0	5		GAS-C		BTEX/M_C						
STR15080445-04A	Oly W GAC2	AQ	08/03/15 06:15	3	0	5		GAS-C		BTEX/M_C						

**Comments:**                      Security seals intact. Frozen ice. Chain split due to different TATs. :

	Signature	Print Name	Company	Date/Time
Logged in by:		JESSICA ALVARADO	Alpha Analytical, Inc.	8/11/15 11:40

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

Company: Starks  
 Attn: Debbie  
 Address: 3351 Cummins Pl  
Cummins Pl  
 City, State, Zip: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Satellite Service Centers:  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

04321

Page # 1 of 1

Company: Starks Job # \_\_\_\_\_ Job Name: Olympic station Report Attention/Project Manager: SLW QC Deliverable Info:  
 Address: \_\_\_\_\_ P.O. #: \_\_\_\_\_ Name: \_\_\_\_\_ EDD Required? Yes / No \_\_\_\_\_ EDF Required? Yes / No \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_ P.O. #: \_\_\_\_\_ Email Address: \_\_\_\_\_ Global ID: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Data Validation Packages: III or IV

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

Time Sampled (HMM)	Date Sampled (MM/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Analysis Requested					Remarks
							Field Filtered? Yes No	GRO	BAC	MTBE	TPH 805B	
8/3/15	0629	AIR		Oly A Sys INF STD	24	1	X	X	X			
8/3/15	0627	AIR		Oly A EFF	24	1	X	X	X			
8/3/15	0623	AIR		Oly W INF	STD	3	X	X	X	X		
	0620	)		Oly W GAC1	STD	3	X	X	X	X		
	0615	)		Oly W GAC2	STD	3	X	X	X	X		
8/3/15	0610	AIR		Oly W EFF	24	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: <u>CAH</u>	Date: <u>8-3-15</u>	Time: <u>1020</u>	Received by: (Signature/Affiliation): <u>NAJISSA T</u>	Date: <u>8-3-15</u>	Time: <u>1020</u>
Relinquished by: (Signature/Affiliation): <u>Debbie Starks</u>	Date:	Time:	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>8/4/15</u>	Time: <u>930</u>
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

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

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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## 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 : 08/04/15

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 : Oly A EFF					
Lab ID : STR15080443-01A	TPH-P (GRO)	ND	15 mg/m <sup>3</sup>	08/04/15 11:34	08/04/15
Date Sampled 08/03/15 06:27	Methyl tert-butyl ether (MTBE)	ND	0.15 mg/m <sup>3</sup>	08/04/15 11:34	08/04/15
	Benzene	ND	0.15 mg/m <sup>3</sup>	08/04/15 11:34	08/04/15
	Toluene	ND	0.15 mg/m <sup>3</sup>	08/04/15 11:34	08/04/15
	Ethylbenzene	ND	0.15 mg/m <sup>3</sup>	08/04/15 11:34	08/04/15
	m,p-Xylene	ND	0.15 mg/m <sup>3</sup>	08/04/15 11:34	08/04/15
	o-Xylene	ND	0.15 mg/m <sup>3</sup>	08/04/15 11:34	08/04/15
Client ID : Oly W EFF					
Lab ID : STR15080443-02A	TPH-P (GRO)	ND	50 µg/L	08/04/15	08/04/15
Date Sampled 08/03/15 06:10	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	08/04/15	08/04/15
	Benzene	ND	0.50 µg/L	08/04/15	08/04/15
	Toluene	ND	0.50 µg/L	08/04/15	08/04/15
	Ethylbenzene	ND	0.50 µg/L	08/04/15	08/04/15
	m,p-Xylene	ND	0.50 µg/L	08/04/15	08/04/15
	o-Xylene	ND	0.50 µg/L	08/04/15	08/04/15

### Gasoline Range Organics (GRO) C4-C13

Note: For sample -01A concentrations of air in a Tedlar Bag are at 29 degrees Celsius and 25.60 inches of mercury.

ND = Not Detected

Reported in micrograms per Liter, per client request.



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager  
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 in 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.



*128*  
8/6/15

**Report Date**



# Alpha Analytical, Inc.

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---

## VOC Sample Preservation Report

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**Work Order:** STR15080443

**Job:** Olympic Station

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Alpha's Sample ID	Client's Sample ID	Matrix	pH
15080443-02A	Oly W EFF	Aqueous	2

---

**8/6/15**  
**Report Date**



# Alpha Analytical, Inc.

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Date:  
06-Aug-15

## QC Summary Report

Work Order:  
15080443

### Method Blank

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

File ID: C:\HPCHEMMS10\DATA\150804\15080405.D

Batch ID: MS10A0804B

Analysis Date: 08/04/2015 13:06

Sample ID: MBLK MS10A0804B

Units : mg/m<sup>3</sup>

Run ID: MSD\_10\_150804A

Prep Date: 08/04/2015 13:06

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.79		2		90	70	130			
Surr: Toluene-d8	1.91		2		96	70	130			
Surr: 4-Bromofluorobenzene	2.05		2		103	70	130			

### Laboratory Control Spike

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

File ID: C:\HPCHEMMS10\DATA\150804\15080403.D

Batch ID: MS10A0804B

Analysis Date: 08/04/2015 11:51

Sample ID: GLCS MS10A0804B

Units : mg/m<sup>3</sup>

Run ID: MSD\_10\_150804A

Prep Date: 08/04/2015 11:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	423	10	400		106	70	130			
Surr: 1,2-Dichloroethane-d4	9.83		10		98	70	130			
Surr: Toluene-d8	9.03		10		90	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	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.



# Alpha Analytical, Inc.

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Date:  
06-Aug-15

## QC Summary Report

Work Order:  
15080443

### Method Blank

File ID: 15080404.D

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

Batch ID: MS09W0804B

Analysis Date: 08/04/2015 11:30

Sample ID: MBLK MS09W0804B

Units: µg/L

Run ID: MSD\_09\_150804A

Prep Date: 08/04/2015 11:30

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	8.02		10		80	70	130			
Surr: Toluene-d8	11.3		10		113	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

### Laboratory Control Spike

File ID: 15080403.D

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

Batch ID: MS09W0804B

Analysis Date: 08/04/2015 10:44

Sample ID: GLCS MS09W0804B

Units: µg/L

Run ID: MSD\_09\_150804A

Prep Date: 08/04/2015 10:44

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	393	50	400		98	70	130			
Surr: 1,2-Dichloroethane-d4	8.84		10		88	70	130			
Surr: Toluene-d8	11.3		10		113	70	130			
Surr: 4-Bromofluorobenzene	10.9		10		109	70	130			

### Sample Matrix Spike

File ID: 15080418.D

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

Batch ID: MS09W0804B

Analysis Date: 08/04/2015 17:13

Sample ID: 15080442-01AGS

Units: µg/L

Run ID: MSD\_09\_150804A

Prep Date: 08/04/2015 17:13

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2100	250	2000		105	54	143			
Surr: 1,2-Dichloroethane-d4	48.7		50		97	70	130			
Surr: Toluene-d8	53.6		50		107	70	130			
Surr: 4-Bromofluorobenzene	54		50		108	70	130			

### Sample Matrix Spike Duplicate

File ID: 15080419.D

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

Batch ID: MS09W0804B

Analysis Date: 08/04/2015 17:37

Sample ID: 15080442-01AGSD

Units: µg/L

Run ID: MSD\_09\_150804A

Prep Date: 08/04/2015 17:37

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2120	250	2000		106	54	143	2100	0.9(23)	
Surr: 1,2-Dichloroethane-d4	49.2		50		98	70	130			
Surr: Toluene-d8	54.3		50		109	70	130			
Surr: 4-Bromofluorobenzene	54.8		50		110	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.





# Alpha Analytical, Inc.

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Date:  
06-Aug-15

## QC Summary Report

Work Order:  
15080443

### Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\150804\15080405.D

Batch ID: MS10A0804A

Analysis Date: 08/04/2015 13:06

Sample ID: MBLK MS10A0804A

Units: mg/m<sup>3</sup>

Run ID: MSD\_10\_150804A

Prep Date: 08/04/2015 13:06

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.79		2		90	70	130			
Surr: Toluene-d8	1.91		2		96	70	130			
Surr: 4-Bromofluorobenzene	2.05		2		103	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\150804\15080402.D

Batch ID: MS10A0804A

Analysis Date: 08/04/2015 11:30

Sample ID: LCS MS10A0804A

Units: mg/m<sup>3</sup>

Run ID: MSD\_10\_150804A

Prep Date: 08/04/2015 11:30

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.2	0.1	10		102	63	137			
Benzene	11.4	0.1	10		114	70	130			
Toluene	9.39	0.1	10		94	70	130			
Ethylbenzene	10.3	0.1	10		103	70	130			
m,p-Xylene	10.2	0.1	10		102	65	139			
o-Xylene	10.6	0.1	10		106	70	130			
Surr: 1,2-Dichloroethane-d4	9.75		10		98	70	130			
Surr: Toluene-d8	8.93		10		89	70	130			
Surr: 4-Bromofluorobenzene	9.89		10		99	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.



# Alpha Analytical, Inc.

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

Date:  
06-Aug-15

## QC Summary Report

Work Order:  
15080443

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15080404.D

Batch ID: MS09W0804A

Analysis Date: 08/04/2015 11:30

Sample ID: MBLK MS09W0804A

Units: µg/L

Run ID: MSD\_09\_150804A

Prep Date: 08/04/2015 11:30

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	8.02		10		80	70	130			
Surr: Toluene-d8	11.3		10		113	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15080402.D

Batch ID: MS09W0804A

Analysis Date: 08/04/2015 10:18

Sample ID: LCS MS09W0804A

Units: µg/L

Run ID: MSD\_09\_150804A

Prep Date: 08/04/2015 10:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.3	0.5	10		103	63	137			
Benzene	11.6	0.5	10		116	70	130			
Toluene	11.4	0.5	10		114	70	130			
Ethylbenzene	11.6	0.5	10		116	70	130			
m,p-Xylene	11.7	0.5	10		117	65	139			
o-Xylene	12.3	0.5	10		123	70	130			
Surr: 1,2-Dichloroethane-d4	8.68		10		87	70	130			
Surr: Toluene-d8	11		10		110	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 15080416.D

Batch ID: MS09W0804A

Analysis Date: 08/04/2015 16:25

Sample ID: 15080442-01AMS

Units: µg/L

Run ID: MSD\_09\_150804A

Prep Date: 08/04/2015 16:25

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	54	1.3	50	0	108	56	140			
Benzene	59.1	1.3	50	0	118	67	134			
Toluene	57	1.3	50	0	114	38	130			
Ethylbenzene	54.8	1.3	50	0	110	70	130			
m,p-Xylene	52.9	1.3	50	0	106	65	139			
o-Xylene	56.8	1.3	50	0	114	69	130			
Surr: 1,2-Dichloroethane-d4	51.1		50		102	70	130			
Surr: Toluene-d8	51.5		50		103	70	130			
Surr: 4-Bromofluorobenzene	52.7		50		105	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 15080417.D

Batch ID: MS09W0804A

Analysis Date: 08/04/2015 16:49

Sample ID: 15080442-01AMSD

Units: µg/L

Run ID: MSD\_09\_150804A

Prep Date: 08/04/2015 16:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	55.1	1.3	50	0	110	56	140	53.96	2.0(40)	
Benzene	57.8	1.3	50	0	116	67	134	59.11	2.2(21)	
Toluene	56.4	1.3	50	0	113	38	130	57	1.0(20)	
Ethylbenzene	54.4	1.3	50	0	109	70	130	54.8	0.8(20)	
m,p-Xylene	52.8	1.3	50	0	106	65	139	52.94	0.3(20)	
o-Xylene	58.1	1.3	50	0	116	69	130	56.77	2.4(20)	
Surr: 1,2-Dichloroethane-d4	50.1		50		100	70	130			
Surr: Toluene-d8	51.7		50		103	70	130			
Surr: 4-Bromofluorobenzene	51.4		50		103	70	130			



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---

**Date:**  
*06-Aug-15*

## **QC Summary Report**

**Work Order:**  
15080443

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**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

# RUSH CA

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

**WorkOrder : STR15080443**  
**Report Due By : 5:00 PM On : 04-Aug-15**

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

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

EDD Required : Yes

Sampled by : C. Hill

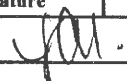
**PO :**  
 Client's COC # : 04321      Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	04-Aug-15	04-Aug-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests				Sample Remarks
				TPH/P_A	TPH/P_W	VOC_A	VOC_W	
STR15080443-01A	Oly A EFF	AR 08/03/15 06:27	1 0 0	GAS-N/C		BTEX/MTB E		Tedlar.
STR15080443-02A	Oly W EFF	AQ 08/03/15 06:10	3 0 0		GAS-C	BTEX/M_C		

Comments: ASAP TAT. Security seals intact. Frozen ice. Chain split due to different TATs. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	8/4/15 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

Company: Stratus  
 Attn: Dobbin  
 Address: 3330 Cummins Pl  
Chester PA  
 City, State, Zip: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



**Alpha Analytical, Inc.**  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
**Satellite Service Centers:**  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

04321

Page # 1 of 1

**Consultant/Client Info:** Stratus  
**Job and Purchase Order Info:** Job # \_\_\_\_\_ Job Name: Olympic Station P.O. #: \_\_\_\_\_  
**Report Attention/Project Manager:** Name: SLW 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)	Analysis Requested				Remarks
							Field Filtered?	GR0	BXK	MTBL	
							Yes	No			
8/3/15	0629	AQ		Oly A Sys IMI-STD	1	1	X	X	X		
8/3/15	0627	AQ	STR15080443-01A	Oly A EFF	24	1	X	X	X		
8/3/15	0623	AQ		Oly W IMI	STD	3	X	X	X	X	
	0620	)		Oly W GAC1	STD	3	X	X	X	X	
	0615	)		Oly W GAC2	STD	3	X	X	X	X	
8/3/15	0610	AQ	02A	Oly W EFF	24	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: CHW  
 Relinquished by: Stratus Date: 8-3-15 Time: 1020  
 Received by: Moussa T Date: 8-3-15 Time: 1020  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: Jou Date: 8/4/15 Time: 930  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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

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: Scott Bittinger  
Phone: (530) 676-2062  
Fax: (530) 676-6005  
Date Received : 09/02/15

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 : Oly W INF				
Lab ID : STR15090248-01A	TPH-P (GRO)	ND	50 µg/L	09/04/15
Date Sampled 09/01/15 05:28	Methyl tert-butyl ether (MTBE)	9.7	0.50 µg/L	09/04/15
	Benzene	ND	0.50 µg/L	09/04/15
	Toluene	ND	0.50 µg/L	09/04/15
	Ethylbenzene	ND	0.50 µg/L	09/04/15
	m,p-Xylene	ND	0.50 µg/L	09/04/15
	o-Xylene	ND	0.50 µg/L	09/04/15
Client ID : Oly W GAC1				
Lab ID : STR15090248-02A	TPH-P (GRO)	ND	50 µg/L	09/04/15
Date Sampled 09/01/15 05:26	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	09/04/15
	Benzene	ND	0.50 µg/L	09/04/15
	Toluene	ND	0.50 µg/L	09/04/15
	Ethylbenzene	ND	0.50 µg/L	09/04/15
	m,p-Xylene	ND	0.50 µg/L	09/04/15
	o-Xylene	ND	0.50 µg/L	09/04/15
Client ID : Oly W GAC2				
Lab ID : STR15090248-03A	TPH-P (GRO)	ND	50 µg/L	09/04/15
Date Sampled 09/01/15 05:23	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	09/04/15
	Benzene	ND	0.50 µg/L	09/04/15
	Toluene	ND	0.50 µg/L	09/04/15
	Ethylbenzene	ND	0.50 µg/L	09/04/15
	m,p-Xylene	ND	0.50 µg/L	09/04/15
	o-Xylene	ND	0.50 µg/L	09/04/15
Client ID : Oly A SYS INF				
Lab ID : STR15090248-04A	TPH-P (GRO)	ND	20 mg/m <sup>3</sup>	09/02/15 16:05
Date Sampled 09/01/15 05:20	Methyl tert-butyl ether (MTBE)	ND	0.20 mg/m <sup>3</sup>	09/02/15 16:05
	Benzene	ND	0.20 mg/m <sup>3</sup>	09/02/15 16:05
	Toluene	ND	0.20 mg/m <sup>3</sup>	09/02/15 16:05
	Ethylbenzene	ND	0.20 mg/m <sup>3</sup>	09/02/15 16:05
	m,p-Xylene	ND	0.20 mg/m <sup>3</sup>	09/02/15 16:05
	o-Xylene	ND	0.20 mg/m <sup>3</sup>	09/02/15 16:05



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Gasoline Range Organics (GRO) C4-C13

Note: For sample -04A concentrations of air in a Tedlar Bag are at 28 degrees Celsius and 25.47 inches of mercury.

ND = Not Detected

Reported in micrograms per Liter, per client request.



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / [info@alpha-analytical.com](mailto: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 in 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.



*RS*

9/10/15

Report Date



# Alpha Analytical, Inc.

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## VOC Sample Preservation Report

Work Order: STR15090248

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15090248-01A	Oly W INF	Aqueous	2
15090248-02A	Oly W GAC1	Aqueous	2
15090248-03A	Oly W GAC2	Aqueous	2

9/10/15  
Report Date





# Alpha Analytical, Inc.

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Date:  
09-Sep-15

## QC Summary Report

Work Order:  
15090248

### Method Blank

File ID: 15090805.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS08A0908B

Analysis Date: 09/08/2015 12:42

Sample ID: MBLK MS08A0908B

Units : mg/m<sup>3</sup>

Run ID: MSD\_08\_150908A

Prep Date: 09/08/2015 12:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.94		2		97	70	130			
Surr: Toluene-d8	2.24		2		112	70	130			
Surr: 4-Bromofluorobenzene	1.63		2		82	70	130			

### Laboratory Control Spike

File ID: 15090803.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS08A0908B

Analysis Date: 09/08/2015 11:40

Sample ID: GLCS MS08A0908B

Units : mg/m<sup>3</sup>

Run ID: MSD\_08\_150908A

Prep Date: 09/08/2015 11:40

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	454	10	400		114	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10		97	70	130			
Surr: Toluene-d8	9.29		10		93	70	130			
Surr: 4-Bromofluorobenzene	10.6		10		106	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.



# Alpha Analytical, Inc.

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Date:  
09-Sep-15

## QC Summary Report

Work Order:  
15090248

### Method Blank

File ID: 15090404.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS08W0904B

Analysis Date: 09/04/2015 11:46

Sample ID: MBLK MS08W0904B

Units : µg/L

Run ID: MSD\_08\_150904A

Prep Date: 09/04/2015 11:46

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.8		10		108	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	8.77		10		88	70	130			

### Laboratory Control Spike

File ID: 15090403.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS08W0904B

Analysis Date: 09/04/2015 11:14

Sample ID: GLCS MS08W0904B

Units : µg/L

Run ID: MSD\_08\_150904A

Prep Date: 09/04/2015 11:14

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	387	50	400		97	70	130			
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	9.53		10		95	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

### Sample Matrix Spike

File ID: 15090429.D

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS08W0904B

Analysis Date: 09/04/2015 21:34

Sample ID: 15090248-01AGS

Units : µg/L

Run ID: MSD\_08\_150904A

Prep Date: 09/04/2015 21:34

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2210	250	2000	0	110	54	143			
Surr: 1,2-Dichloroethane-d4	53.6		50		107	70	130			
Surr: Toluene-d8	48		50		96	70	130			
Surr: 4-Bromofluorobenzene	50		50		100	70	130			

### Sample Matrix Spike Duplicate

File ID: 15090430.D

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS08W0904B

Analysis Date: 09/04/2015 21:58

Sample ID: 15090248-01AGSD

Units : µg/L

Run ID: MSD\_08\_150904A

Prep Date: 09/04/2015 21:58

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2140	250	2000	0	107	54	143	2209	3.0(23)	
Surr: 1,2-Dichloroethane-d4	53.3		50		107	70	130			
Surr: Toluene-d8	48.4		50		97	70	130			
Surr: 4-Bromofluorobenzene	51.7		50		103	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.

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Date:  
09-Sep-15

## QC Summary Report

Work Order:  
15090248

### Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 15090805.D

Batch ID: MS08A0908A

Analysis Date: 09/08/2015 12:42

Sample ID: MBLK MS08A0908A

Units: mg/m<sup>3</sup>

Run ID: MSD\_08\_150908A

Prep Date: 09/08/2015 12:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.94		2		97	70	130			
Surr: Toluene-d8	2.24		2		112	70	130			
Surr: 4-Bromofluorobenzene	1.63		2		82	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 15090802.D

Batch ID: MS08A0908A

Analysis Date: 09/08/2015 11:09

Sample ID: LCS MS08A0908A

Units: mg/m<sup>3</sup>

Run ID: MSD\_08\_150908A

Prep Date: 09/08/2015 11:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	12.3	0.1	10		123	63	137			
Benzene	10.7	0.1	10		107	70	130			
Toluene	10.8	0.1	10		108	70	130			
Ethylbenzene	10.6	0.1	10		106	70	130			
m,p-Xylene	10.6	0.1	10		106	65	139			
o-Xylene	10.3	0.1	10		103	70	130			
Surr: 1,2-Dichloroethane-d4	10.3		10		103	70	130			
Surr: Toluene-d8	9.67		10		97	70	130			
Surr: 4-Bromofluorobenzene	9.53		10		95	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.



# Alpha Analytical, Inc.

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Date:  
09-Sep-15

## QC Summary Report

Work Order:  
15090248

### Method Blank

File ID: 15090404.D

Type MBLK Test Code: EPA Method 624/8260

Batch ID: MS08W0904A

Analysis Date: 09/04/2015 11:46

Sample ID: MBLK MS08W0904A

Units : µg/L

Run ID: MSD\_08\_150904A

Prep Date: 09/04/2015 11:46

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	10.8		10		108	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	8.77		10		88	70	130			

### Laboratory Control Spike

File ID: 15090402.D

Type LCS Test Code: EPA Method 624/8260

Batch ID: MS08W0904A

Analysis Date: 09/04/2015 10:47

Sample ID: LCS MS08W0904A

Units : µg/L

Run ID: MSD\_08\_150904A

Prep Date: 09/04/2015 10:47

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	11.8	0.5	10		118	63	137			
Benzene	10.5	0.5	10		105	70	130			
Toluene	10.1	0.5	10		101	70	130			
Ethylbenzene	9.81	0.5	10		98	70	130			
m,p-Xylene	9.75	0.5	10		98	65	139			
o-Xylene	9.76	0.5	10		98	70	130			
Surr: 1,2-Dichloroethane-d4	10.7		10		107	70	130			
Surr: Toluene-d8	9.38		10		94	70	130			
Surr: 4-Bromofluorobenzene	9.59		10		96	70	130			

### Sample Matrix Spike

File ID: 15090427.D

Type MS Test Code: EPA Method 624/8260

Batch ID: MS08W0904A

Analysis Date: 09/04/2015 20:48

Sample ID: 15090248-01AMS

Units : µg/L

Run ID: MSD\_08\_150904A

Prep Date: 09/04/2015 20:48

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	73.9	1.3	50	9.7	128	56	140			
Benzene	52.1	1.3	50	0	104	67	134			
Toluene	54.2	1.3	50	0	108	38	130			
Ethylbenzene	52.6	1.3	50	0	105	70	130			
m,p-Xylene	51.4	1.3	50	0	103	65	139			
o-Xylene	50.6	1.3	50	0	101	69	130			
Surr: 1,2-Dichloroethane-d4	54.9		50		110	70	130			
Surr: Toluene-d8	47.4		50		95	70	130			
Surr: 4-Bromofluorobenzene	46.3		50		93	70	130			

### Sample Matrix Spike Duplicate

File ID: 15090428.D

Type MSD Test Code: EPA Method 624/8260

Batch ID: MS08W0904A

Analysis Date: 09/04/2015 21:12

Sample ID: 15090248-01AMSD

Units : µg/L

Run ID: MSD\_08\_150904A

Prep Date: 09/04/2015 21:12

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	76.4	1.3	50	9.7	133	56	140	73.91	3.3(40)	
Benzene	53.6	1.3	50	0	107	67	134	52.11	2.9(21)	
Toluene	54.3	1.3	50	0	109	38	130	54.23	0.2(20)	
Ethylbenzene	51.5	1.3	50	0	103	70	130	52.61	2.1(20)	
m,p-Xylene	50.9	1.3	50	0	102	65	139	51.37	0.9(20)	
o-Xylene	50.2	1.3	50	0	100	69	130	50.61	0.8(20)	
Surr: 1,2-Dichloroethane-d4	56.3		50		113	70	130			
Surr: Toluene-d8	47.3		50		95	70	130			
Surr: 4-Bromofluorobenzene	45.4		50		91	70	130			



# *Alpha Analytical, Inc.*

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

**Date:**  
*09-Sep-15*

## QC Summary Report

**Work Order:**  
15090248

**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 : STR15090248**  
**Report Due By : 5:00 PM On : 10-Sep-15**

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

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

EDD Required : Yes

Sampled by : C. Hill

**PO :**  
 Client's COC # : 04518      Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	02-Sep-15	02-Sep-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks	
				TPHP_A	TPHP_W	VOC_A	VOC_W				
STR15090248-01A	Oly W INF	AQ 09/01/15 05:28	3 0 5		GAS-C		BTEX/M_C				
STR15090248-02A	Oly W GAC1	AQ 09/01/15 05:26	3 0 5		GAS-C		BTEX/M_C				
STR15090248-03A	Oly W GAC2	AQ 09/01/15 05:23	3 0 5		GAS-C		BTEX/M_C				
STR15090248-04A	Oly A SYS INF	AR 09/01/15 05:20	1 0 5	GAS-N/C			BTEX/MTB E				Tedlar.

Comments: Security seals intact. Frozen ice. Chain split due to different TATs.:

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO.	Alpha Analytical, Inc.	9/2/15 1225

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

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

Company: Stantec  
 Attn: \_\_\_\_\_  
 Address: 3330 Cameron Pkwy  
 City, State, Zip: Cameron PA  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



**Alpha Analytical, Inc.**  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
**Satellite Service Centers:**  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-368-9089  
 Phone: 714-388-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

04518

Page # 1 of 1

**Consultant/Client Info:** Company: Stantec  
**Job and Purchase Order Info:** Job #: \_\_\_\_\_ Job Name: Olympic Station  
**Report Attention/Project Manager:** Name: Scott  
**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?		Analysis Requested			Remarks
							Yes	No	GRD	BTEX	MTBE	
0528	9/5	AQ	STR15090248-01A	Oly W INT	STD	3	X		X	X	X	
0526				Oly W GAC1	STD	3	X		X	X	X	
0523				Oly W GAC2	STD	3	X		X	X	X	
0521	9/5	AQ		Oly W EFF	24	3	X		X	X	X	
0520	9/15	AQ		Oly A Sys Int	STD	1	X		X	X	X	
0518	9/15	AQ		Oly A EFF	24	1	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: PHIL STANER Date: 9/15 Time: 12:10  
 Relinquished by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature/Affiliation): E. Frignano Date: 09/01/15 Time: 12:10  
 Relinquished by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature/Affiliation): [Signature] Date: 9/2/15 Time: 12:00

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

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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## 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 : 09/02/15

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 : <b>Oly W EFF</b>					
Lab ID : STR15090240-01A	TPH-P (GRO)	ND	50 µg/L	09/02/15	09/02/15
Date Sampled 09/01/15 05:21	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	09/02/15	09/02/15
	Benzene	ND	0.50 µg/L	09/02/15	09/02/15
	Toluene	ND	0.50 µg/L	09/02/15	09/02/15
	Ethylbenzene	ND	0.50 µg/L	09/02/15	09/02/15
	m,p-Xylene	ND	0.50 µg/L	09/02/15	09/02/15
	o-Xylene	ND	0.50 µg/L	09/02/15	09/02/15
Client ID : <b>Oly A EFF</b>					
Lab ID : STR15090240-02A	TPH-P (GRO)	ND	15 mg/m <sup>3</sup>	09/02/15 10:15	09/02/15
Date Sampled 09/01/15 05:18	Methyl tert-butyl ether (MTBE)	ND	0.15 mg/m <sup>3</sup>	09/02/15 10:15	09/02/15
	Benzene	ND	0.15 mg/m <sup>3</sup>	09/02/15 10:15	09/02/15
	Toluene	ND	0.15 mg/m <sup>3</sup>	09/02/15 10:15	09/02/15
	Ethylbenzene	ND	0.15 mg/m <sup>3</sup>	09/02/15 10:15	09/02/15
	m,p-Xylene	ND	0.15 mg/m <sup>3</sup>	09/02/15 10:15	09/02/15
	o-Xylene	ND	0.15 mg/m <sup>3</sup>	09/02/15 10:15	09/02/15

### Gasoline Range Organics (GRO) C4-C13

Note: For sample -02A concentrations of air in a Tedlar Bag are at 24 degrees Celsius and 30.00 inches of mercury.

ND = Not Detected

Reported in micrograms per Liter, per client request.



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager  
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 in 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.



*RS*  
9/2/15

Report Date





# Alpha Analytical, Inc.

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## VOC Sample Preservation Report

Work Order: STR15090240

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15090240-01A	Oly W EFF	Aqueous	2

9/2/15  
Report Date



# Alpha Analytical, Inc.

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Date:  
04-Sep-15

## QC Summary Report

Work Order:  
15090240

### Method Blank

File ID: 15090205.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15A0902B

Analysis Date: 09/02/2015 11:54

Sample ID: MBLK MS15A0902B

Units : mg/m<sup>3</sup>

Run ID: MSD\_15\_150902A

Prep Date: 09/02/2015 11:54

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

ND

10

Surr: 1,2-Dichloroethane-d4

1.78

2

89

70

130

Surr: Toluene-d8

2.08

2

104

70

130

Surr: 4-Bromofluorobenzene

2.02

2

101

70

130

### Laboratory Control Spike

File ID: 15090203.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15A0902B

Analysis Date: 09/02/2015 10:50

Sample ID: GLCS MS15A0902B

Units : mg/m<sup>3</sup>

Run ID: MSD\_15\_150902A

Prep Date: 09/02/2015 10:50

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

427

10

400

107

70

130

Surr: 1,2-Dichloroethane-d4

8.8

10

88

70

130

Surr: Toluene-d8

10.5

10

105

70

130

Surr: 4-Bromofluorobenzene

10

10

100

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.



# Alpha Analytical, Inc.

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Date:  
04-Sep-15

## QC Summary Report

Work Order:  
15090240

### Method Blank

File ID: 15090204.D

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

Batch ID: MS09W0902B

Analysis Date: 09/02/2015 12:34

Sample ID: MBLK MS09W0902B

Units : µg/L

Run ID: MSD\_09\_150902A

Prep Date: 09/02/2015 12:34

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.68		10		97	70	130			

### Laboratory Control Spike

File ID: 15090203.D

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

Batch ID: MS09W0902B

Analysis Date: 09/02/2015 12:09

Sample ID: GLCS MS09W0902B

Units : µg/L

Run ID: MSD\_09\_150902A

Prep Date: 09/02/2015 12:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	421	50	400		105	70	130			
Surr: 1,2-Dichloroethane-d4	10.3		10		103	70	130			
Surr: Toluene-d8	9.97		10		99.7	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

### Sample Matrix Spike

File ID: 15090216.D

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

Batch ID: MS09W0902B

Analysis Date: 09/02/2015 17:26

Sample ID: 15090240-01AGS

Units : µg/L

Run ID: MSD\_09\_150902A

Prep Date: 09/02/2015 17:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2130	250	2000		0	107	54	143		
Surr: 1,2-Dichloroethane-d4	51.4		50		103	70	130			
Surr: Toluene-d8	49.8		50		99.6	70	130			
Surr: 4-Bromofluorobenzene	50		50		100	70	130			

### Sample Matrix Spike Duplicate

File ID: 15090217.D

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

Batch ID: MS09W0902B

Analysis Date: 09/02/2015 17:50

Sample ID: 15090240-01AGSD

Units : µg/L

Run ID: MSD\_09\_150902A

Prep Date: 09/02/2015 17:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2250	250	2000		0	113	54	143	2132	5.6(23)
Surr: 1,2-Dichloroethane-d4	51.3		50		103	70	130			
Surr: Toluene-d8	50.4		50		101	70	130			
Surr: 4-Bromofluorobenzene	48.6		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.

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Date:  
04-Sep-15

## QC Summary Report

Work Order:  
15090240

### Method Blank

File ID: 15090205.D

Type MBLK Test Code: EPA Method SW8260B

Batch ID: MS15A0902A

Analysis Date: 09/02/2015 11:54

Sample ID: MBLK MS15A0902A

Units : mg/m<sup>3</sup>

Run ID: MSD\_15\_150902A

Prep Date: 09/02/2015 11:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.78		2		89	70	130			
Surr: Toluene-d8	2.08		2		104	70	130			
Surr: 4-Bromofluorobenzene	2.02		2		101	70	130			

### Laboratory Control Spike

File ID: 15090202.D

Type LCS Test Code: EPA Method SW8260B

Batch ID: MS15A0902A

Analysis Date: 09/02/2015 10:25

Sample ID: LCS MS15A0902A

Units : mg/m<sup>3</sup>

Run ID: MSD\_15\_150902A

Prep Date: 09/02/2015 10:25

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.74	0.1	10		87	63	137			
Benzene	8.97	0.1	10		90	70	130			
Toluene	10	0.1	10		100	70	130			
Ethylbenzene	9.36	0.1	10		94	70	130			
m,p-Xylene	9.8	0.1	10		98	65	139			
o-Xylene	9.44	0.1	10		94	70	130			
Surr: 1,2-Dichloroethane-d4	8.94		10		89	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	9.98		10		99.8	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.



# Alpha Analytical, Inc.

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Date:  
04-Sep-15

## QC Summary Report

Work Order:  
15090240

### Method Blank

File ID: 15090204.D

Type MBLK Test Code: EPA Method 624/8260

Batch ID: MS09W0902A

Analysis Date: 09/02/2015 12:34

Sample ID: MBLK MS09W0902A

Units : µg/L

Run ID: MSD\_09\_150902A

Prep Date: 09/02/2015 12:34

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	10.2		10		102	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.68		10		97	70	130			

### Laboratory Control Spike

File ID: 15090202.D

Type LCS Test Code: EPA Method 624/8260

Batch ID: MS09W0902A

Analysis Date: 09/02/2015 11:44

Sample ID: LCS MS09W0902A

Units : µg/L

Run ID: MSD\_09\_150902A

Prep Date: 09/02/2015 11:44

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.06	0.5	10		91	63	137			
Benzene	10	0.5	10		100	70	130			
Toluene	9.7	0.5	10		97	70	130			
Ethylbenzene	8.74	0.5	10		87	70	130			
m,p-Xylene	9.21	0.5	10		92	65	139			
o-Xylene	9.93	0.5	10		99	70	130			
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.84		10		98	70	130			

### Sample Matrix Spike

File ID: 15090214.D

Type MS Test Code: EPA Method 624/8260

Batch ID: MS09W0902A

Analysis Date: 09/02/2015 16:37

Sample ID: 15090240-01AMS

Units : µg/L

Run ID: MSD\_09\_150902A

Prep Date: 09/02/2015 16:37

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	48.8	1.3	50	0	98	56	140			
Benzene	51.1	1.3	50	0	102	67	134			
Toluene	47.9	1.3	50	0	96	38	130			
Ethylbenzene	41.8	1.3	50	0	84	70	130			
m,p-Xylene	43.2	1.3	50	0	86	65	139			
o-Xylene	48.6	1.3	50	0	97	69	130			
Surr: 1,2-Dichloroethane-d4	52		50		104	70	130			
Surr: Toluene-d8	49.1		50		98	70	130			
Surr: 4-Bromofluorobenzene	49.6		50		99	70	130			

### Sample Matrix Spike Duplicate

File ID: 15090215.D

Type MSD Test Code: EPA Method 624/8260

Batch ID: MS09W0902A

Analysis Date: 09/02/2015 17:01

Sample ID: 15090240-01AMSD

Units : µg/L

Run ID: MSD\_09\_150902A

Prep Date: 09/02/2015 17:01

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	54	1.3	50	0	108	56	140	48.79	10.1(40)	
Benzene	57.1	1.3	50	0	114	67	134	51.11	11.0(21)	
Toluene	53.1	1.3	50	0	106	38	130	47.86	10.4(20)	
Ethylbenzene	47.2	1.3	50	0	94	70	130	41.81	12.1(20)	
m,p-Xylene	49.2	1.3	50	0	98	65	139	43.23	13.0(20)	
o-Xylene	54.5	1.3	50	0	109	69	130	48.62	11.4(20)	
Surr: 1,2-Dichloroethane-d4	51		50		102	70	130			
Surr: Toluene-d8	49		50		98	70	130			
Surr: 4-Bromofluorobenzene	48.7		50		97	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:**  
*04-Sep-15*

## **QC Summary Report**

**Work Order:**  
15090240

**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**

**RUSH  
CA**

**Alpha Analytical, Inc.**

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

**WorkOrder : STR15090240**

**Report Due By : 5:00 PM On : 02-Sep-15**

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

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

EDD Required : Yes

Sampled by : C. Hill


PO :  
 Client's COC # : 04518 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	02-Sep-15	02-Sep-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests				Sample Remarks
				TPH/P_A	TPH/P_W	VOC_A	VOC_W	
STR15090240-01A	Oly W EFF	AQ 09/01/15 05:21	3 0 0		GAS-C		BTEX/M_C	
STR15090240-02A	Oly A EFF	AR 09/01/15 05:18	1 0 0	GAS-N/C		BTEX/MTB E		Tedlar.

Comments: ASAP TAT. Security seals intact. Frozen ice. Chain split due to different TATs. :

Signature	Print Name	Company	Date/Time
	JESSICA AWARADO.	Alpha Analytical, Inc.	9/2/15 955

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: \_\_\_\_\_  
 Address: 3330 Cameron Pk Dr  
 City, State, Zip: Cameron Pa  
 Phone Number: \_\_\_\_\_ Fax: \_\_\_\_\_



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Satellite Service Centers:  
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-366-9089  
 Phone: 714-386-2901  
 Phone: 775-388-7043  
 Phone: 702-281-4848

04518

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:  
 EOD 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)	Analysis Requested			Remarks
							Field Filtered? Yes No	GRD	1344	
0528	9/5	AQ		Oly W IMF	STD	3	X	X	X	
0526	)	)		Oly W GAC1	STD	3	X	X	X	
0523	)	)		Oly W GAC2	STD	3	X	X	X	
0521	9/5	AQ		Oly W ETF	24	3	X	X	X	
0520	9/15	AQ		Oly A Sys IMF	STD	1	X	X	X	
0518	9/15	AQ		Oly A ETF	24	1	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: <u>PHIL STRATUS</u>	Date: <u>9/15</u>	Time: <u>1210</u>	Received by: (Signature/Affiliation): <u>ETMiyano</u>	Date: <u>09/15</u>	Time: <u>1210</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>foe</u>	Date: <u>9/2/15</u>	Time: <u>950</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

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

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.