

**RECEIVED**

By Alameda County Environmental Health 10:28 am, Jul 13, 2015

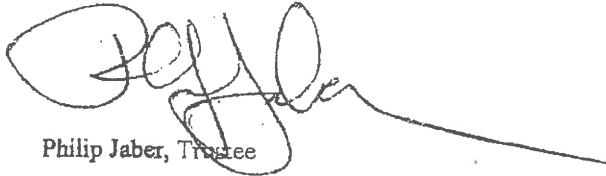
Mr. Mark Detterman  
Alameda County Environmental Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Re: Former Olympic Service Station  
1436 Grant Avenue  
San Lorenzo, California  
ACEHD Case No. RO0000373, GeoTacker No. T0600102256

Dear Mr. Detterman:

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

Sincerely,  
George and Frida Jaber 1989 Family Trust



Philip Jaber, Trustee



## TRANSMITTAL

Date June 10, 2015  
Project Former Olympic Station

To:  
Oro Loma Sanitary District (OLSD)  
Industrial Waste Inspector  
2600 Grant Avenue, San Lorenzo, CA 94580  
Attn: Rodney Smith

Re: Wastewater Discharge Monthly Report (Permit #SDP-2014147)

Item	Description
1	Analytical Report (Effluent sample collected on 5/5/15)
2	Operational Performance and Mass Removal Summary Table (Table 9: GW Extraction Component)

Dear Mr. Smith,

Please find attached for your review the analytical results for the effluent water samples collected on May 5, 2015, and the groundwater discharge flow rates observed from the dual-phase extraction and groundwater remediation system at the Former Olympic Station Facility, located at 1436 Grant Avenue, San Lorenzo, California. The system was shut down on March 23, 2015, due to lack of project funding; however, circumstances changed and system restart was attempted on May 5, 2015. Upon restart, the sewer was observed to be backed up; therefore, the system was sampled, but then was shut down until further maintenance could be completed. The system was restarted on May 20, 2015, for continuous operation. Between May 5 and June 2, 2015, all extracted groundwater was treated using carbon vessels, and discharged into the sanitary sewer. The approximate monthly discharge and extraction rates are as follows:

- March 23-May 5, 2015: 0 gallons (0 gpm)
- May 5, 2015 – June 2, 2015: 51,320 gallons (5.9 gpm)

The system operated in compliance with permit conditions and all effluent sample results were below laboratory reporting limits, and within the permit limitations.

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel



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

properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

If you have any questions, or need more information, please contact me at (530) 313-9974 or [dbarr@stratusinc.net](mailto:dbarr@stratusinc.net).

Sincerely,

A handwritten signature in black ink that reads "D.L. Barr".

Deborah L. Barr, P.E.





# 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 : 05/06/15

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 EFF				
Lab ID : STR15050645-01A	TPH-P (GRO)	50 µg/L	05/06/15	05/06/15
Date Sampled 05/05/15 07:22	Methyl tert-butyl ether (MTBE)	0.50 µg/L	05/06/15	05/06/15
	Benzene	0.50 µg/L	05/06/15	05/06/15
	Toluene	0.50 µg/L	05/06/15	05/06/15
	Ethylbenzene	0.50 µg/L	05/06/15	05/06/15
	m,p-Xylene	0.50 µg/L	05/06/15	05/06/15
	o-Xylene	0.50 µg/L	05/06/15	05/06/15

Gasoline Range Organics (GRO) C4-C13

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*

5/6/15

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.



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---

## VOC Sample Preservation Report

Work Order: STR15050645

Job: Olympic Station

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Alpha's Sample ID	Client's Sample ID	Matrix	pH
15050645-01A	Oly W EFF	Aqueous	2

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5/6/15  
**Report Date**



# Alpha Analytical, Inc.

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Date:  
11-May-15

## QC Summary Report

Work Order:  
15050645

### Method Blank

File ID: 15050605.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8280B

Batch ID: MS15W0506B

Analysis Date: 05/06/2015 11:43

Sample ID: MBLK MS15W0506B

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/06/2015 11:43

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.42		10		94	70	130			
Surr: Toluene-d8	9.51		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.53		10		95	70	130			

### Laboratory Control Spike

File ID: 15050603.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8280B

Batch ID: MS15W0506B

Analysis Date: 05/06/2015 10:44

Sample ID: GLCS MS15W0506B

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/06/2015 10:44

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	443	50	400		111	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	9.19		10		92	70	130			
Surr: 4-Bromofluorobenzene	9.89		10		99	70	130			

### Sample Matrix Spike

File ID: 15050720.D

Type MS

Test Code: EPA Method SW8015B/C / SW8280B

Batch ID: MS15W0506B

Analysis Date: 05/07/2015 18:15

Sample ID: 15050642-01AGS

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/07/2015 18:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2240	250	2000		0	112	54	143		
Surr: 1,2-Dichloroethane-d4	41.7		50		83	70	130			
Surr: Toluene-d8	46.5		50		93	70	130			
Surr: 4-Bromofluorobenzene	47.4		50		95	70	130			

### Sample Matrix Spike Duplicate

File ID: 15050721.D

Type MSD

Test Code: EPA Method SW8015B/C / SW8280B

Batch ID: MS15W0506B

Analysis Date: 05/07/2015 18:39

Sample ID: 15050642-01AGSD

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/07/2015 18:39

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2120	250	2000		0	106	54	143	2237	5.5(23)
Surr: 1,2-Dichloroethane-d4	42.5		50		85	70	130			
Surr: Toluene-d8	47		50		94	70	130			
Surr: 4-Bromofluorobenzene	46.2		50		92	70	130			

### Comments:

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

Reported in micrograms per Liter, per client request.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
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Date:  
11-May-15

## QC Summary Report

Work Order:  
15050645

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15050605.D

Batch ID: MS15W0506A

Analysis Date: 05/06/2015 11:43

Sample ID: MBLK MS15W0506A

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/06/2015 11:43

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	9.42		10		94	70	130			
Surr: Toluene-d8	9.51		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.53		10		95	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15050602.D

Batch ID: MS15W0506A

Analysis Date: 05/06/2015 10:18

Sample ID: LCS MS15W0506A

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/06/2015 10:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.7	0.5	10		107	63	137			
Benzene	10.3	0.5	10		103	70	130			
Toluene	8.82	0.5	10		88	80	120			
Ethylbenzene	8.91	0.5	10		89	80	120			
m,p-Xylene	9.12	0.5	10		91	65	139			
o-Xylene	9.43	0.5	10		94	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10		96	70	130			
Surr: Toluene-d8	9.32		10		93	70	130			
Surr: 4-Bromofluorobenzene	9.53		10		95	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 15050628.D

Batch ID: MS15W0506A

Analysis Date: 05/06/2015 21:06

Sample ID: 15050642-01AMS

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/06/2015 21:06

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	63.7	1.3	50	0	127	56	140			
Benzene	54.7	1.3	50	0	109	67	134			
Toluene	45.1	1.3	50	0	90	38	130			
Ethylbenzene	44	1.3	50	0	88	70	130			
m,p-Xylene	46.6	1.3	50	0	93	65	139			
o-Xylene	48.4	1.3	50	0	97	69	130			
Surr: 1,2-Dichloroethane-d4	46.1		50		92	70	130			
Surr: Toluene-d8	45.1		50		90	70	130			
Surr: 4-Bromofluorobenzene	45.5		50		91	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 15050719.D

Batch ID: MS15W0506A

Analysis Date: 05/07/2015 17:50

Sample ID: 15050642-01AMSD

Units: µg/L

Run ID: MSD\_15\_150506A

Prep Date: 05/07/2015 17:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	68.8	1.3	50	0	138	56	140	63.7	7.6(40)	
Benzene	65.1	1.3	50	0	130	67	134	54.65	17.5(21)	
Toluene	51.2	1.3	50	0	102	38	130	45.07	12.7(20)	
Ethylbenzene	47.9	1.3	50	0	96	70	130	44.03	8.4(20)	
m,p-Xylene	50.7	1.3	50	0	101	65	139	46.58	8.4(20)	
o-Xylene	53.6	1.3	50	0	107	69	130	48.41	10.1(20)	
Surr: 1,2-Dichloroethane-d4	40.7		50		81	70	130			
Surr: Toluene-d8	45.6		50		91	70	130			
Surr: 4-Bromofluorobenzene	46.8		50		94	70	130			



## *Alpha Analytical, Inc.*

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

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

**Date:**  
*11-May-15*

### QC Summary Report

**Work Order:**  
15050645

**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!

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

**WorkOrder : STR15050645**  
**Report Due By : 5:00 PM On : 06-May-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 # : 12204      Job : Olympic Station

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
4 °C	06-May-15	06-May-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										
STR15050645-01A	Oly W EFF	AQ	05/05/15 07:22	3	0	0	GAS-C	BTEX/M_C							

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

Logged in by:	Signature	Print Name	Company	Date/Time
		JESSICA ALVARADO	Alpha Analytical, Inc.	5/10/15 1025

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: Stratix  
 Attn: Debbie  
 Address: 5331 Canyon Pk Dr  
 City, State, Zip: Carson, NV  
 Phone Number: 702-261-4844 Fax: 702-261-6005



**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 NV: 6266 McLeod Ave, Suite 24, Las Vegas, NV 89120  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 775-355-1044  
 Fax: 775-355-0408  
 Phone: 916-365-9089  
 Phone: 702-261-4848  
 Phone: 714-384-2901

12204  
 Page # 1 of 1

**Consultant/Client Info:** Company: Stratix  
**Job and Purchase Order Info:** Job #: Olympic Station  
**Report Attention/Project Manager:** Name: Self  
**QC Deliverable Info:** EDD Required? Yes / No. EDF Required? Yes / No.

Time Sampled (M/D/Y)	Date Sampled (M/D/Y)	Main: (Sub Key 0-9)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	Containers** (See Key Below)	Analysis Requested	Remarks
0732	5/15	HR		101x W INF	310	N	3	X X X	
0725	5/15	HR		101x W CONC 1	310	N	3	X X X	
0725	5/15	HR		101x W CONC 2	310	N	3	X X X	
0722	5/15	HR	STR15050645-DIA	101x W EFF	2400	N	3	X X X	

**ADDITIONAL INSTRUCTIONS:**  
24 HR TAT ON EFF

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 445.0436 (c) (2).

Sampled by: <u>Michelle</u> Relinquished by: (Signature/Affiliation) <u>Michelle Station</u>	Date: <u>5/15</u> Time: <u>1345</u>	Received by: (Signature/Affiliation) <u>Melissa T</u> Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>5/15</u> Time: <u>1345</u>
Relinquished by: (Signature/Affiliation)	Date:	Received by: (Signature/Affiliation)	Date: <u>5/16/15</u> Time: <u>1000</u>

\*Key: AQ - Aqueous WA - Waste OT - Other \*\* L - Lier V - VOA S - Soil Jer O - Orbo T - Tedlar B - Brass P - Plastic OT - Other  
 NOTE: Samples are discarded 90 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.

**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 Mass Removed		
				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	0.0076	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	0.0077	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	0.0144	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	0.0152	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	0.0153	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	0.0156	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	0.0156	0.160
06/02/15		5:35	6,233.0	979,100	49,900	918,660	3.87	Waiting Analytical Results								

**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.

**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.