

RECEIVED

By Alameda County Environmental Health 2:18 pm, Jan 11, 2016

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



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

TRANSMITTAL

Date January 8, 2016
Project Former Olympic Station

To:
Oro Loma Sanitary District

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 (samples collected on 12/2/15)
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 December 2, 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. During this period (December 2 through December 29) all extracted groundwater was treated using carbon vessels, and discharged into the sanitary sewer. As of December 29, 2015, the system has temporarily been shut down, pending the scheduled soil gas sampling and groundwater monitoring event during the first quarter 2016. Upon completion of the sampling event Stratus will restart the system for continuous operation. The approximate monthly discharge and extraction rate during December 2015 is as follows:

- December 2 – December 29, 2015: 73,450 gallons (3.71 gpm)

The system operated in compliance with permit conditions and all effluent sample results were below laboratory reporting limits, and within the permit limitations. Stratus will continue to conduct a monthly sampling event as required by the approved discharge permit.

January 8, 2016

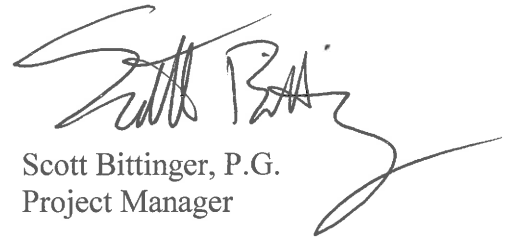
“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 I may be reached at (530) 313-9974 or dbarr@stratusinc.net.

Sincerely,



Deborah L. Barr, P.E.
Project Engineer



Scott Bittinger, P.G.
Project Manager



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 : 12/03/15

Job: Olyptic

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 : STR15120322-01A	TPH-P (GRO)	ND	15 mg/m ³	12/03/15 10:50
Date Sampled 12/02/15 05:36	Methyl tert-butyl ether (MTBE)	ND	0.15 mg/m ³	12/03/15 10:50
	Benzene	ND	0.15 mg/m ³	12/03/15 10:50
	Toluene	ND	0.15 mg/m ³	12/03/15 10:50
	Ethylbenzene	ND	0.15 mg/m ³	12/03/15 10:50
	m,p-Xylene	ND	0.15 mg/m ³	12/03/15 10:50
	o-Xylene	ND	0.15 mg/m ³	12/03/15 10:50
Client ID : Oly W EFF				
Lab ID : STR15120322-02A	TPH-P (GRO)	ND	50 µg/L	12/03/15
Date Sampled 12/02/15 05:25	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	12/03/15
	Benzene	ND	0.50 µg/L	12/03/15
	Toluene	ND	0.50 µg/L	12/03/15
	Ethylbenzene	ND	0.50 µg/L	12/03/15
	m,p-Xylene	ND	0.50 µg/L	12/03/15
	o-Xylene	ND	0.50 µg/L	12/03/15

Gasoline Range Organics (GRO) C4-C13

Note: For sample -01A concentrations of air in a Tedlar Bag are at 22 degrees Celsius and 25.47 inches of mercury.

ND = Not Detected



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.



PS

12/4/15

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: STR15120322

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15120322-02A	Oly W EFF	Aqueous	2

12/4/15
Report Date



Alpha Analytical, Inc.

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Date:
08-Dec-15

QC Summary Report

Work Order:
15120322

Method Blank

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

File ID: 15120305.D

Batch ID: MS15A1203B

Analysis Date: 12/03/2015 12:35

Sample ID: MBLK MS15A1203B

Units: mg/m³

Run ID: MSD_15_151203A

Prep Date: 12/03/2015 12:35

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	2.15		2		108	70	130			
Surr: Toluene-d8	1.91		2		96	70	130			
Surr: 4-Bromofluorobenzene	2.04		2		102	70	130			

Laboratory Control Spike

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

File ID: 15120303.D

Batch ID: MS15A1203B

Analysis Date: 12/03/2015 11:42

Sample ID: GLCS MS15A1203B

Units: mg/m³

Run ID: MSD_15_151203A

Prep Date: 12/03/2015 11:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	448	10	400		112	70	130			
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	9.61		10		96	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

Comments:

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



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Date:
08-Dec-15

QC Summary Report

Work Order:
15120322

Method Blank

File ID: 15120304.D

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

Batch ID: MS08W1203B

Analysis Date: 12/03/2015 12:15

Sample ID: MBLK MS08W1203B

Units: µg/L

Run ID: MSD_08_151203A

Prep Date: 12/03/2015 12:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.53		10		95	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	9.79		10		98	70	130			

Laboratory Control Spike

File ID: 15120303.D

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

Batch ID: MS08W1203B

Analysis Date: 12/03/2015 11:46

Sample ID: GLCS MS08W1203B

Units: µg/L

Run ID: MSD_08_151203A

Prep Date: 12/03/2015 11:46

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	445	50	400		111	70	130			
Surr: 1,2-Dichloroethane-d4	9.45		10		95	70	130			
Surr: Toluene-d8	9.75		10		98	70	130			
Surr: 4-Bromofluorobenzene	10.8		10		108	70	130			

Sample Matrix Spike

File ID: 15120325.D

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

Batch ID: MS08W1203B

Analysis Date: 12/03/2015 20:28

Sample ID: 15120322-02AGS

Units: µg/L

Run ID: MSD_08_151203A

Prep Date: 12/03/2015 20:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1770	250	2000		88	54	143			
Surr: 1,2-Dichloroethane-d4	47.1		50		94	70	130			
Surr: Toluene-d8	50.3		50		101	70	130			
Surr: 4-Bromofluorobenzene	53.9		50		108	70	130			

Sample Matrix Spike Duplicate

File ID: 15120326.D

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

Batch ID: MS08W1203B

Analysis Date: 12/03/2015 20:52

Sample ID: 15120322-02AGSD

Units: µg/L

Run ID: MSD_08_151203A

Prep Date: 12/03/2015 20:52

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1810	250	2000		91	54	143	1769	2.6(23)	
Surr: 1,2-Dichloroethane-d4	47.7		50		95	70	130			
Surr: Toluene-d8	50.1		50		100	70	130			
Surr: 4-Bromofluorobenzene	53		50		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.

Reported in micrograms per Liter, per client request.



Alpha Analytical, Inc.

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Date:
08-Dec-15

QC Summary Report

Work Order:
15120322

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 15120305.D

Batch ID: MS15A1203A

Analysis Date: 12/03/2015 12:35

Sample ID: MBLK MS15A1203A

Units : mg/m³

Run ID: MSD_15_151203A

Prep Date: 12/03/2015 12:35

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	2.15		2		108	70	130			
Surr: Toluene-d8	1.91		2		96	70	130			
Surr: 4-Bromofluorobenzene	2.04		2		102	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 15120302.D

Batch ID: MS15A1203A

Analysis Date: 12/03/2015 11:16

Sample ID: LCS MS15A1203A

Units : mg/m³

Run ID: MSD_15_151203A

Prep Date: 12/03/2015 11:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	11	0.1	10		110	63	137			
Benzene	8.51	0.1	10		85	70	130			
Toluene	8.62	0.1	10		86	70	130			
Ethylbenzene	8.04	0.1	10		80	70	130			
m,p-Xylene	8.37	0.1	10		84	65	139			
o-Xylene	8.33	0.1	10		83	70	130			
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	9.63		10		96	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:
08-Dec-15

QC Summary Report

Work Order:
15120322

Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15120304.D

Batch ID: MS08W1203A

Analysis Date: 12/03/2015 12:15

Sample ID: MBLK MS08W1203A

Units: µg/L

Run ID: MSD_08_151203A

Prep Date: 12/03/2015 12:15

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	9.53		10		95	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	9.79		10		98	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15120302.D

Batch ID: MS08W1203A

Analysis Date: 12/03/2015 11:22

Sample ID: LCS MS08W1203A

Units: µg/L

Run ID: MSD_08_151203A

Prep Date: 12/03/2015 11:22

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.89	0.5	10		89	63	137			
Benzene	9.68	0.5	10		97	70	130			
Toluene	9.42	0.5	10		94	70	130			
Ethylbenzene	9.77	0.5	10		98	70	130			
m,p-Xylene	9.68	0.5	10		97	65	139			
o-Xylene	9.5	0.5	10		95	70	130			
Surr: 1,2-Dichloroethane-d4	9.97		10		99.7	70	130			
Surr: Toluene-d8	9.73		10		97	70	130			
Surr: 4-Bromofluorobenzene	10.9		10		109	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 15120323.D

Batch ID: MS08W1203A

Analysis Date: 12/03/2015 19:40

Sample ID: 15120322-02AMS

Units: µg/L

Run ID: MSD_08_151203A

Prep Date: 12/03/2015 19:40

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	54.7	1.3	50	0	109	56	140			
Benzene	50.5	1.3	50	0	101	67	134			
Toluene	49.5	1.3	50	0	99	38	130			
Ethylbenzene	49.6	1.3	50	0	99	70	130			
m,p-Xylene	48.5	1.3	50	0	97	65	139			
o-Xylene	47.8	1.3	50	0	96	69	130			
Surr: 1,2-Dichloroethane-d4	49.6		50		99	70	130			
Surr: Toluene-d8	48.4		50		97	70	130			
Surr: 4-Bromofluorobenzene	52.9		50		106	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 15120324.D

Batch ID: MS08W1203A

Analysis Date: 12/03/2015 20:04

Sample ID: 15120322-02AMSD

Units: µg/L

Run ID: MSD_08_151203A

Prep Date: 12/03/2015 20:04

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	54.65	0.6(40)	
Benzene	50	1.3	50	0	99.9	67	134	50.47	1.0(21)	
Toluene	49.9	1.3	50	0	99.7	38	130	49.51	0.7(20)	
Ethylbenzene	51.4	1.3	50	0	103	70	130	49.62	3.4(20)	
m,p-Xylene	50	1.3	50	0	100	65	139	48.47	3.2(20)	
o-Xylene	49	1.3	50	0	98	69	130	47.76	2.5(20)	
Surr: 1,2-Dichloroethane-d4	49.1		50		98	70	130			
Surr: Toluene-d8	48.7		50		97	70	130			
Surr: 4-Bromofluorobenzene	54.1		50		108	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:
08-Dec-15

QC Summary Report

Work Order:
15120322

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

WorkOrder : STR15120322
Report Due By : 5:00 PM On : 04-Dec-15

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

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

EDD Required : Yes
Sampled by : C. Hill

PO : **Client's COC # :** 01589 **Job :** Olympic **Cooler Temp** **Samples Received** **Date Printed**
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates 6 °C 03-Dec-15 03-Dec-15

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		Requested Tests				Sample Remarks	
				Alpha	Sub	TPHP_A	TPHP_W	VOC_A	VOC_W		
STR15120322-01A	Oly A EFF	AR	12/02/15 05:36	1	0	1					
STR15120322-02A	Oly W EFF	AQ	12/02/15 05:25	3	0	1					Tedlar

Comments: 24_HR_TAT. No security seals. Frozen ice. Chain split into two separate work orders due to different TATs.

Logged in by: K Murray **Signature** **Print Name** **Company** **Date/Time**
 K Murray K Murray Alpha Analytical, Inc. 12/3/15 1020

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: Stratix
 Attn: _____
 Address: _____
 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

01589

Page # 1 of 1

Company: Stratix
 Address: _____
 City, State, Zip: _____

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

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

QC Deliverable Info:
 EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Global ID: J0600102256
 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	GR0	BTEX	MTBE	TPH	SV		BOD5
0538	12/3	AIR		Oily A Sys INF	STD	1	X	X	X	X				
0536	)	AIR	STR15120322-01	Oily A EFF	24	1	X	X	X	X				
0534	12/3	AIR		Oily W INF	STD	3	X	X	X	X	X			
0531	)	AIR		Oily W GAC1	STD	3	X	X	X	X	X			
0528	)	AIR		Oily W GAC2	STD	3	X	X	X	X	X			
0525	)	AIR	02	Oily W EFF	24	3	X	X	X	X	X			

ADDITIONAL INSTRUCTIONS:

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

Sampled by: <u>CHILL</u>	Date:	Time:	Received by: (Signature/Affiliation): <u>Kumman</u>	Date: <u>12/3/15</u>	Time: <u>1010</u>
Relinquished by: (Signature/Affiliation): <u>Chill</u>	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:
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.

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

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

Date	Notes	Sample Time	Hour Meter Reading ¹	Sewer Discharge Data				Analytical Results			Mass Removed			Cumulative		
				Totalizer Reading (gallons)	Period (gallons)	Cumulative Flow (gallons)	Average Sewer Discharge Flow Rate (gpm) ^a	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
10/06/15		5:55	8,744.0	1,469,360	169,670	1,408,920	3.36	<50	<0.50	5.9	<0.071	<0.00071	0.0110	<0.90	<0.019	0.199
11/17/15	9	6:04	8,745.0	1,469,400	40	1,408,960	0.67	<50	0.88	4.6	<0.000	<0.00000	0.0000	<0.90	<0.019	0.199
12/02/15		5:34	8,783.0	8,660	8,660	1,417,620	3.80	<100	0.85	6.2	<0.005	<0.00031	0.0002	<0.90	<0.019	0.199
12/29/15	10	--	9,113.0	82,110	73,450	1,491,070	3.71	--	--	--	<0.046	<0.00013	0.0021	<0.95	<0.019	0.201

Legend / Key:

GRO = Gasoline Range Organics C4-C13
MTBE = Methyl tertiary butyl ether

µg/L = micrograms per liter
gpm = gallons per minute

lbs = pounds
-- = data not collected/not calculated

Analytical Methods /Laboratory:

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

TABLE 9
GROUNDWATER EXTRACTION COMPONENT - OPERATIONAL PERFORMANCE AND MASS REMOVAL SUMMARY
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

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

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

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

Notes:

- 1 DPE 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 restarted 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.
- 9 New totalizer installed; therefore, hour reading restarted back at zero.
- 10 System temporarily shutdown. Sampling not completed during this site visit; therefore, the year end mass removed calculated based on analytical results averaged from prior two sampling visits.