July 2015
Remedial Design Investigation Report

Source Area Operable Unit
Rockets, Fireworks, and Flares Site
EPA ID: CAN000905945

Prepared for:
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APPROVAL PAGE

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ABBREVIATIONS AND ACRONYMS

µg/L	micrograms per liter
AECOM	AECOM Technical Services, Inc.
Blaine Tech	Blaine Tech Services, Inc.
Emhart	Emhart Industries, Inc.
ERM	ERM-West, Inc.
ft/ft	horizontal feet per vertical foot
FSP	Final Monitoring Well Installation Work Plan/Field Sampling Plan
GLA	Geo-Logic Associates
QC	Quality control
ROD	Record of Decision
SAOU	Source Area Operable Unit
SAP	Sampling and Analysis Plan
Site	Rockets, Fireworks, and Flares Site (formerly the B.F. Goodrich Superfund Site)
TCE	Trichloroethene
USEPA	U.S. Environmental Protection Agency
VOC	Volatile organic compound

1.0 INTRODUCTION

On behalf of Emhart Industries, Inc. (Emhart) AECOM prepared this report to summarize remedial design investigation activities at the Source Area Operable Unit (SAOU) of the Rockets, Fireworks, and Flares Superfund Site (Site). AECOM performed this additional remedial design investigation work in July 2015 in accordance with a USEPA request. The objective of this remedial design investigation work was to provide current water level measurements and volatile organic compound (VOC) and perchlorate concentration data for wells in the SAOU vicinity. The location of the Site is shown on Figure 1. Sampling locations are shown on Figure 2.

This sampling was conducted in accordance with the *Final Sampling and Analysis Plan* (SAP) submitted on 3 May 2013 (ERM-West, Inc. [ERM], 2013a) and *Final Monitoring Well Installation Work Plan/Field Sampling Plan* (FSP) submitted on 1 November 2013 (ERM, 2013c).

This report also includes groundwater monitoring data for the County of San Bernardino (County) Remedy wells collected by Geo-Logic Associates (GLA) on behalf of the County between 20 July and 19 August 2015. Data provided by GLA are presented in Table 5 and Appendix A.

1.1 Report Organization

This report is organized as follows:

- Section 2.0 summarizes the field activities;
- Section 3.0 summarizes groundwater monitoring results; and
- Section 4.0 presents a list of references used in the preparation of this report.

Appendices to this report include:

- Appendix A – County Data;
- Appendix B – Field Logs;
- Appendix C – Chain-of-Custody Forms and Laboratory Data; and
- Appendix D – Data Validation Reports.

2.0 SUMMARY OF FIELD ACTIVITIES

Field activities were conducted by AECOM with subcontractor Blaine Tech Services, Inc. (Blaine Tech) of Carson, California. Between 13 and 28 July 2015, Blaine Tech completed the following groundwater monitoring tasks:

- Calibrated field equipment;
- Measured water levels;
- Measured field water quality parameters; and
- Collected groundwater samples for laboratory analysis.

All field activities were performed in accordance with generally accepted, industry standard procedure as described in detail in the SAP (ERM, 2013a). Blaine Tech recorded all

measurements, including location, time, and date of measurement on the groundwater well sample field logs presented in Appendix B. Corresponding field logs prepared by GLA for County Remedy wells are presented in Appendix A.

Decontamination water and excess groundwater generated during field activities were stored in a labelled 55-gallon drum, pending profiling. Profile samples of the decontamination water and excess groundwater were collected and submitted to TestAmerica Laboratories of Irvine, California.

3.0 GROUNDWATER MONITORING RESULTS

This section summarizes the results of groundwater monitoring performed during the July 2015 monitoring event.

3.1 Water Level Results

The depth to groundwater was measured in accordance with the SAP and FSP with the following exceptions:

- No groundwater levels were measured from the following wells, which were dry at the time: M-1-Shallow, N-1-Shallow, N-2-Shallow, N-3-Deep, N-4-Deep, N-6-Deep, N-7-Deep, N-8-Deep, N-9-Deep, N-9-Shallow, N-11-Deep, N-14-Shallow, N-15-Shallow, CMW-02A, PW-2A, PW-3A, and PW-4A.
- GLA collected water level data for the County Remedy wells between 20 and 23 July 2015. Although AECOM has not been able to confirm the reason for not including well N-18-C1, it appears based on notations from previous sampling events that the well was damaged.
- Water level measurements provided by GLA for the following locations are included in the tables and figures: F-6-A (Shallow and Deep), N-4 (Shallow and Deep), N-7-Shallow, N-15-Deep, N-16 (B, C1, and C2), N-18 (B, C1, C2), N-19r (B, C1, and C2), S2-Shallow, B-14, B-22, B-23 (Shallow and Deep), N-7-Deep, N-15-Shallow.

Water levels are presented in Table 1 for production, nested, and conventional monitoring wells and Table 2 for Westbay multiport wells. Groundwater elevation data for the Intermediate and Regional Aquifers in the vicinity of the SAOU are shown on Figures 3 and 4, respectively.

3.2 Groundwater Quality Results

Water quality samples were collected in accordance with the sampling schedule provided in the SAP and FSP, with the exception of wells PW-4A, PW-6A, and PW-7A, where insufficient water volume existed to allow for sample collection.

The sample analysis matrix is summarized in Table 3 and a complete list of analytes and results are provided in Table 4. Trichloroethene (TCE), carbon tetrachloride, and perchlorate are the only constituents of concern for the site (as defined in the 2010 ROD [USEPA, 2010]) that currently or historically exceeded SAOU cleanup standards. TCE and perchlorate results from the July 2015 monitoring event are presented on Figures 5 through 8. TCE was found to be above the cleanup standard of 5.0 micrograms per liter (µg/L) in 13 out of the 43 sampled locations. Concentrations ranged from 1.1 µg/L (EMW-05A) to 150 µg/L (PW-2). Carbon tetrachloride was not detected above the cleanup standard of 0.5 µg/L at any location. Perchlorate was detected above the cleanup standard

of 6.0 µg/L in 24 out of the 43 sampled locations. Concentrations ranged from 4.0 µg/L (PW-7C) to 530 µg/L (PW-5D).

Data for perchlorate and TCE in wells sampled by the County are provided in Table 5. Perchlorate concentrations ranged from 1.4 µg/L (M5-3) to 140 µg/L (N13-S). Concentrations exceeded the cleanup standard in 27 out of the 67 locations sampled by GLA for the County. TCE was detected above the cleanup standards in 16 out of the 67 locations sampled with concentrations ranging from 0.2 µg/L (M2-3, N5, B-23S, F-6AD) to 39 µg/L (M3-2).

3.3 Data Validation

The data validation process evaluated the analytical data from the wells sampled by AECOM for method quality control (QC) and laboratory QC compliance, and determined the validity and applicability of the data. Data validation was completed internally by AECOM in accordance with the procedures outlined in the *Quality Assurance Project Plan* ([QAPP] ERM, 2013b). Based on the findings of the validation process, data validation qualifiers were assigned to explain the rationale for applying a particular laboratory validation qualifier. The validated project data, including qualifiers and reason codes, are represented in Table 4.

Data validation reports for wells sampled by AECOM are provided in Appendix D.

4.0 REFERENCES

ERM. 2013a. *Final Sampling and Analysis Plan*. 3 May.

ERM. 2013b. *Quality Assurance Project Plan. 3* May.

ERM. 2013c. Final Monitoring Well Installation Work Plan/Field Sampling Plan. 1 November.

U.S. Environmental Protection Agency (USEPA). 2010. *EPA Superfund Interim Action Record of Decision, Source Area Operable Unit, B.F. Goodrich Superfund Site*, San Bernardino County, CA. EPA ID: CAN000905945. 30 September.

Tables

Table 1 *Well Groundwater Elevations - Conventional Wells*
Source Area Operable Unit
Rockets, Flares, and Fireworks Superfund Site

Location Name	Well	Aquifer	Measurement Date	Top of Casing Elevation (ft MSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)	Water Level Source	Comment
B-14	B14	NA	7/20/2015	1,616.31	444.13	1,172.18	County	
B-22	B22	NA	7/20/2015	1,599.81	432.52	1,167.29	County	
B-23	B23-D	NA	7/20/2015	1,619.50	652.78	966.72	County	
	B23-S	NA	7/20/2015	1,619.63	445.17	1,174.46	County	
F-6A	F-6A-D	Intermediate	7/20/2015	1,577.56	467.98	1,109.58	County	Not used for contouring
	F-6A-S	Intermediate	7/20/2015	1,577.80	422.10	1,155.70	County	
M-1	M1-D	Regional	7/20/2015	1,431.32	465.57	965.75	County	
	M1-S	Regional	7/20/2015	1,431.42	DRY	NA	County	
M-4	M4-D	Regional	7/20/2015	1,408.46	442.56	965.90	County	
	M4-S	Regional	7/20/2015	1,408.55	442.51	966.04	County	
N-1	N1-D	Aquitard	7/20/2015	1,569.74	494.83	1,074.91	County	
	N1-S	Intermediate	7/20/2015	1,569.73	DRY	NA	County	
N-2	N2-D	Intermediate	7/20/2015	1,619.16	456.88	1,162.28	County	
	N2-S	Intermediate	7/20/2015	1,619.13	DRY	NA	County	
N-3	N3-D	Regional	7/20/2015	1,577.31	DRY	NA	County	
	N3-S	Intermediate	7/20/2015	1,577.28	428.11	1,149.17	County	
N-4	N4-D	Regional	7/20/2015	1,647.10	DRY	NA	County	
	N4-S	Intermediate	7/20/2015	1,647.10	431.59	1,215.51	County	
N-5	N5-S	Intermediate	7/20/2015	1,593.61	431.46	1,162.15	County	
N-6	N6-D	Regional	7/20/2015	1,538.91	DRY	NA	County	
	N6-S	Intermediate	7/20/2015	1,538.92	421.76	1,117.16	County	
N-7	N7-D	NA	7/20/2015	NA	DRY	NA	County	
	N7-S	Intermediate	7/20/2015	1,541.26	382.06	1,159.20	County	
N-8	N8-D	Regional	7/20/2015	1,544.28	DRY	NA	County	
	N8-S	Intermediate	7/20/2015	1,544.28	411.97	1,132.31	County	
N-9	N9-D	Regional	7/20/2015	1,514.92	DRY	NA	County	
	N9-S	Intermediate	7/20/2015	1,514.92	DRY	NA	County	
N-10	N10-D	Regional	7/20/2015	1,484.20	513.03	971.17	County	
	N10-S	Intermediate	7/20/2015	1,484.20	405.10	1,079.10	County	
N-11	N11-D	Regional	7/20/2015	1,460.35	DRY	NA	County	
	N11-S	Intermediate	7/20/2015	1,460.26	392.15	1,068.11	County	
N-12	N12-S	Intermediate	7/20/2015	1,515.03	403.99	1,111.04	County	
N-13	N13-D	Regional	7/20/2015	1,470.45	501.56	968.89	County	
	N13-S	Intermediate	7/20/2015	1,470.70	380.78	1,089.92	County	
N-14	N14-D	Regional	7/20/2015	1,419.85	455.03	964.82	County	
	N14-S	Regional	7/20/2015	1,420.00	DRY	NA	County	
N-15	N15-D	Regional	7/20/2015	1,374.24	413.67	960.57	County	
	N15-S	NA	7/20/2015	NA	DRY	NA	County	
N-16	N16-B	Intermediate	7/20/2015	1,530.74	390.25	1,140.49	County	
	N16-C1	Regional	7/20/2015	1,525.87	391.11	1,134.76	County	Not used for contouring
	N16-C2	Regional	7/20/2015	1,523.87	391.15	1,132.72	County	
N-18	N18-B	Intermediate	7/20/2015	1,425.26	351.57	1,073.69	County	
	N18-C1	Regional	7/20/2015	1,425.32	345.74	1,079.58	County	Not used for contouring
	N18-C2	Regional	7/20/2015	1,425.29	455.84	969.45	County	
N-19R	N19R-B	Intermediate	7/20/2015	1,580.35	421.66	1,158.69	County	
	N19R-C1	Regional	7/20/2015	1,580.29	604.60	975.69	County	Average value of N19R-C1 and N19R-C2 (976.35) used for contouring.
	N19R-C2	Regional	7/20/2015	1,580.24	603.24	977.00	County	
S-2	S2-S	Intermediate	7/20/2015	1,511.61	337.00	1,174.61	County	
1N/5W-34D2S	1N/5W-34D2S	Regional	7/27/2015	1,463.00	498.17	964.83	Emhart	Not used for contouring
1N/5W-34D3S	1N/5W-34D3S	Regional	7/27/2015	1,463.00	497.83	965.17	Emhart	
CMW-02	CMW-02A	Intermediate	7/13/2015	1,655.68	DRY	NA	Emhart	
	CMW-02B	Intermediate	7/13/2015	1,655.68	475.58	1,180.10	Emhart	
	CMW-02C	Aquitard	7/13/2015	1,655.68	481.44	1,174.24	Emhart	
RIALTO-2	RIALTO-2	Regional	7/13/2015	1,508.00	483.91	1,024.09	Emhart	Not used for contouring

Table 1 *Well Groundwater Elevations - Conventional Wells*
Source Area Operable Unit
Rockets, Flares, and Fireworks Superfund Site

Location Name	Well	Aquifer	Measurement Date	Top of Casing Elevation (ft MSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)	Water Level Source	Comment
MIRO-2	MIRO-2	Regional	7/20/2015	1,419.11	453.62	965.49	County	
MIRO-3	MIRO-3	Regional	7/20/2015	1,415.01	469.32	945.69	County	Not used for contouring
EPA-MW9	EPA-MW9A	Regional	7/28/2015	1,448.73	479.68	969.05	Emhart	Average value of EPA-MW9A and EPA-MW9B (969.02) used for contouring.
	EPA-MW9B	Regional	7/28/2015	1,448.63	479.65	968.98	Emhart	
PW-1	PW-1	Intermediate	7/27/2015	1,704.48	436.89	1,267.59	Emhart	
PW-2	PW-2	Intermediate	7/27/2015	1,639.36	465.32	1,174.04	Emhart	
	PW-2A	Regional	7/27/2015	1,639.58	DRY	NA	Emhart	
PW-3	PW-3	Intermediate	7/27/2015	1,611.81	454.21	1,157.60	Emhart	
	PW-3A	Regional	7/27/2015	1,611.81	DRY	NA	Emhart	
PW-4	PW-4	Intermediate	7/27/2015	1,626.56	469.78	1,156.78	Emhart	
	PW-4A	Regional	7/27/2015	1,626.56	DRY	NA	Emhart	
EMW-01	EMW-01A	Regional	7/13/2015	1,384.48	423.05	961.43	Emhart	Average value of EMW-01A and EMW-01B (962.55) used for contouring.
	EMW-01B	Regional	7/13/2015	1,386.48	422.81	963.67	Emhart	
EMW-03	EMW-03A	Intermediate	7/28/2015	1,500.66	401.47	1,099.19	Emhart	
	EMW-03B	Regional	7/28/2015	1,500.61	527.54	973.07	Emhart	Average value of EMW-03B and EMW-03C (972.82) used for contouring.
	EMW-03C	Regional	7/27/2015	1,500.51	527.95	972.56	Emhart	
EMW-04	EMW-04A	Intermediate	7/27/2015	1,549.42	423.64	1,125.78	Emhart	
	EMW-04B	Regional	7/27/2015	1,549.32	574.72	974.60	Emhart	Average value of EMW-04B and EMW-04C (974.78) used for contouring.
	EMW-04C	Regional	7/27/2015	1,549.23	574.28	974.95	Emhart	
EMW-05	EMW-05A	Intermediate	7/27/2015	1,573.56	432.39	1,141.17	Emhart	
	EMW-05B	Regional	7/27/2015	1,573.42	597.58	975.84	Emhart	Average value of EMW-05B and EMW-05C (975.99) used for contouring.
	EMW-05C	Regional	7/27/2015	1,573.33	597.19	976.14	Emhart	

Notes:
County = County of San Bernardino
Emhart = Emhart Industries, Inc.

Abbreviations:
BTOC = Below top of casing
ft = Feet
MSL = Mean sea level
NA = Not available/applicable
NM = Not measured

Table 2 Well Groundwater Elevations - Westbay Multiport Wells
Source Area Operable Unit
Rockets, Flares, and Fireworks Superfund Site

Location Name	Well	Aquifer	Measurement Date	Top of Casing Elevation (ft MSL)	Depth of Westbay Sampling Port (ft)	Atmospheric Pressure (psi)	Sampling Zone Pressure (psi)	Groundwater Elevation (ft MSL)(1)	Water Level Source	Comment
M-2	M2-1	Regional	22-Jul-15	1,389.28	--	--	--	981.11	County	
	M2-2	Regional	22-Jul-15	1,389.28	--	--	--	964.26	County	Average value of M2 screen intervals (964.43)
	M2-3	Regional	22-Jul-15	1,389.28	--	--	--	964.47	County	used for contouring.
	M2-4	Regional	22-Jul-15	1,389.28	--	--	--	964.33	County	
	M2-5	Regional	22-Jul-15	1,389.28	--	--	--	964.41	County	
	M2-6	Regional	22-Jul-15	1,389.28	--	--	--	964.48	County	
	M2-7	Regional	22-Jul-15	1,389.28	--	--	--	964.60	County	
M-3	M3-1	Regional	21-Jul-15	1,464.24	--	--	--	971.70	County	Average value of M3 screen intervals (970.45)
	M3-2	Regional	21-Jul-15	1,464.24	--	--	--	971.55	County	used for contouring.
	M3-3	Regional	21-Jul-15	1,464.24	--	--	--	970.03	County	
	M3-4	Regional	21-Jul-15	1,464.24	--	--	--	969.99	County	
	M3-5	Regional	21-Jul-15	1,464.24	--	--	--	969.95	County	
	M3-6	Regional	21-Jul-15	1,464.24	--	--	--	969.99	County	
	M3-7	Regional	21-Jul-15	1,464.24	--	--	--	969.94	County	
M-5	M5-1	Intermediate	22-Jul-15	1,438.98	--	--	--	1,085.29	County	
	M5-2	Regional	22-Jul-15	1,438.98	--	--	--	970.54	County	Average value of M5 Regional Aquifer screen intervals (970.09)
	M5-3	Regional	22-Jul-15	1,438.98	--	--	--	970.13	County	used for contouring.
	M5-4	Regional	22-Jul-15	1,438.98	--	--	--	969.96	County	
	M5-5	Regional	22-Jul-15	1,438.98	--	--	--	970.06	County	
	M5-6	Regional	7/22/2015	1,438.98	--	--	--	969.88	County	
	M5-7	Regional	7/22/2015	1,438.98	--	--	--	969.95	County	
M-6	M6-1	Intermediate	7/21/2015	1,447.34	392	13.95	17.29	1,063.05	County	
	M6-2	Regional	7/21/2015	1,447.34	482	13.95	15.47	968.85	County	Average value of M6 Regional Aquifer screen intervals (967.94)
	M6-3	Regional	7/21/2015	1,447.34	543	13.95	41.52	967.94	County	used for contouring.
	M6-4	Regional	7/21/2015	1,447.34	593	13.95	63.16	967.87	County	
	M6-5	Regional	7/21/2015	1,447.34	633	13.94	80.46	967.80	County	
	M6-6	Regional	7/21/2015	1,447.34	693	13.95	106.41	967.65	County	
	M6-7	Regional	7/21/2015	1,447.34	733	13.95	123.69	967.51	County	
N-20	N20-1	Intermediate	7/23/2015	1,501.57	387	13.93	19.22	1,126.77	County	Intermediate Aquifer values not
	N20-2	Intermediate	7/23/2015	1,501.57	442	13.95	13.86	1,059.36	County	used for contouring.
	N20-3	Regional	7/23/2015	1,501.57	582	13.95	37.14	973.07	County	Average value of N20 Regional Aquifer screen intervals (972.91)
	N20-4	Regional	7/23/2015	1,501.57	627	13.99	56.62	972.92	County	used for contouring.
	N20-5	Regional	7/23/2015	1,501.57	672	13.96	76.10	972.93	County	
	N20-6	Regional	7/23/2015	1,501.57	717	13.96	95.52	972.73	County	

Table 2 *Well Groundwater Elevations - Westbay Multiport Wells*
Source Area Operable Unit
Rockets, Flares, and Fireworks Superfund Site

Location Name	Well	Aquifer	Measurement Date	Top of Casing Elevation (ft MSL)	Depth of Westbay Sampling Port (ft)	Atmospheric Pressure (psi)	Sampling Zone Pressure (psi)	Groundwater Elevation (ft MSL)(1)	Water Level Source	Comment
EPA-MP4	EPA-MP4A	Intermediate	7/16/2015	1,457.82	413	13.89	17.19	1,052.43	Emhart	
	EPA-MP4B	Regional	7/16/2015	1,457.82	507	13.89	22.30	970.22	Emhart	Average value of EPA-MP4 Regional Aquifer screen intervals
	EPA-MP4C	Regional	7/16/2015	1,457.82	586	13.89	56.53	970.19	Emhart	(969.97) used for contouring.
	EPA-MP4D	Regional	7/16/2015	1,457.82	641	13.89	80.30	970.03	Emhart	
	EPA-MP4E	Regional	7/16/2015	1,457.82	753	13.89	128.60	969.46	Emhart	
PW-5	PW-5A	Regional	7/16/2015	1,423.64	467	13.86	17.72	965.55	Emhart	Average value of PW-5 screen intervals (965.42) used for
	PW-5B	Regional	7/16/2015	1,423.64	512	13.86	37.23	965.55	Emhart	contouring.
	PW-5C	Regional	7/16/2015	1,423.64	557	13.86	56.69	965.45	Emhart	
	PW-5D	Regional	7/16/2015	1,423.64	617	13.86	82.72	965.50	Emhart	
	PW-5E	Regional	7/16/2015	1,423.64	672	13.86	106.37	965.06	Emhart	
PW-6	PW-6A	Regional	7/15/2015	1,409.16	442	13.89	14.06	967.55	Emhart	Average value of PW-6 screen intervals (965.16) used for
	PW-6B	Regional	7/15/2015	1,409.16	477	13.89	27.91	964.50	Emhart	contouring.
	PW-6C	Regional	7/15/2015	1,409.16	522	13.89	47.47	964.63	Emhart	
	PW-6D	Regional	7/15/2015	1,409.16	602	13.89	82.13	964.59	Emhart	
	PW-6E	Regional	7/15/2015	1,409.16	657	13.89	105.94	964.52	Emhart	
PW-7	PW-7A	Regional	7/17/2015	1,401.14	432	13.83	14.15	969.88	Emhart	Average value of PW-7 screen intervals (962.09) used for
	PW-7B	Regional	7/17/2015	1,401.14	498	13.83	38.82	960.79	Emhart	contouring.
	PW-7C	Regional	7/17/2015	1,401.14	568	13.83	69.08	960.60	Emhart	
	PW-7D	Regional	7/17/2015	1,401.14	638	13.83	99.41	960.57	Emhart	
	PW-7E	Regional	7/17/2015	1,401.14	688	13.83	121.00	960.38	Emhart	
	PW-7F	Regional	7/17/2015	1,401.14	752	13.83	149.17	961.37	Emhart	
	PW-7G	Regional	7/17/2015	1,401.14	817	13.83	177.19	961.01	Emhart	
PW-8	PW-8A	Intermediate	7/17/2015	1,515.42	442	13.75	26.93	1,103.83	Emhart	
	PW-8B	Regional	7/17/2015	1,515.42	547	13.75	15.11	971.56	Emhart	Average value of PW-8 Regional Aquifer screen intervals (971.22)
	PW-8C	Regional	7/17/2015	1,515.42	647	13.75	58.40	971.43	Emhart	used for contouring.
	PW-8D	Regional	7/17/2015	1,515.42	722	13.75	90.81	971.20	Emhart	
	PW-8E	Regional	7/17/2015	1,515.42	772	13.75	112.27	970.71	Emhart	

Notes:
County = County of San Bernardino
Emhart = Emhart Industries, Inc.
(1) Groundwater Elevation = TOC Elevation - Depth of Westbay Sampling Port + Sampling Zone Pressure - Atmospheric Pressure)
*2.307 feet/per square inch.

Abbreviations:
-- = not provided by County of San Bernadino
ft = Feet
MSL = Mean sea level
TOC = Top of casing

Table 3 *Sample Analysis Matrix*
Source Area Operable Unit
Emhart Data
Rockets, Flares, and Fireworks Superfund Site

Analyte	Method	Reporting Limit (µg/L)	Method Detection Limit (µg/L)	Units
Volatile Organic Compounds				
Acetone	USEPA 8260B	20	4.5	µg/L
Benzene	USEPA 8260B	0.50	0.25	µg/L
Bromobenzene	USEPA 8260B	1.0	0.25	µg/L
Bromochloromethane	USEPA 8260B	1.0	0.25	µg/L
Bromodichloromethane	USEPA 8260B	1.0	0.25	µg/L
Bromoform	USEPA 8260B	1.0	0.40	µg/L
Bromomethane	USEPA 8260B	2.0	0.25	µg/L
1,3-Butadiene	USEPA 8260B	1.0	0.50	µg/L
tert-Butanol (TBA)	USEPA 8260B	10	5.0	µg/L
2-Butanone (MEK)	USEPA 8260B	10	2.5	µg/L
n-Butylbenzene	USEPA 8260B	2.0	0.40	µg/L
sec-Butylbenzene	USEPA 8260B	2.0	0.25	µg/L
tert-Butylbenzene	USEPA 8260B	2.0	0.25	µg/L
Carbon Disulfide	USEPA 8260B	2.0	0.50	µg/L
Carbon Tetrachloride	USEPA 8260B	1.0	0.25	µg/L
2-Chloro-1,3-Butadiene	USEPA 8260B	2.0	0.50	µg/L
Chlorobenzene	USEPA 8260B	1.0	0.25	µg/L
Chloroethane	USEPA 8260B	1.0	0.40	µg/L
Chloroform	USEPA 8260B	1.0	0.25	µg/L
Chloromethane	USEPA 8260B	1.0	0.25	µg/L
2-Chlorotoluene	USEPA 8260B	2.0	0.25	µg/L
4-Chlorotoluene	USEPA 8260B	2.0	0.25	µg/L
Dibromochloromethane	USEPA 8260B	1.0	0.25	µg/L
1,2-Dibromo-3-Chloropropane	USEPA 8260B	2.0	0.50	µg/L
Dibromomethane	USEPA 8260B	1.0	0.25	µg/L
trans-1,4-Dichloro-2-Butene	USEPA 8260B	5.0	2.5	µg/L
1,2-Dichlorobenzene	USEPA 8260B	1.0	0.25	µg/L
1,3-Dichlorobenzene	USEPA 8260B	1.0	0.25	µg/L
1,4-Dichlorobenzene	USEPA 8260B	1.0	0.25	µg/L
Dichlorodifluoromethane	USEPA 8260B	1.0	0.25	µg/L
1,1-Dichloroethane	USEPA 8260B	1.0	0.25	µg/L
1,2-Dichloroethane (1,2-DCA)	USEPA 8260B	0.50	0.25	µg/L
1,1-Dichloroethene	USEPA 8260B	1.0	0.25	µg/L
cis-1,2-Dichloroethene	USEPA 8260B	1.0	0.25	µg/L
trans-1,2-Dichloroethene	USEPA 8260B	1.0	0.25	µg/L

Table 3 Sample Analysis Matrix
Source Area Operable Unit
Emhart Data
Rockets, Flares, and Fireworks Superfund Site

Analyte	Method	Reporting Limit (µg/L)	Method Detection Limit (µg/L)	Units
Volatile Organic Compounds				
1,2-Dichloropropane	USEPA 8260B	1.0	0.25	µg/L
1,3-Dichloropropane	USEPA 8260B	1.0	0.25	µg/L
2,2-Dichloropropane	USEPA 8260B	1.0	0.40	µg/L
1,1-Dichloropropene	USEPA 8260B	1.0	0.25	µg/L
cis-1,3-Dichloropropene	USEPA 8260B	1.0	0.25	µg/L
trans-1,3-Dichloropropene	USEPA 8260B	1.0	0.25	µg/L
Ethyl tert-Butyl Ether (ETBE)	USEPA 8260B	2.0	0.25	µg/L
Ethylbenzene	USEPA 8260B	1.0	0.25	µg/L
Ethylene Dibromide (EDB)	USEPA 8260B	1.0	0.25	µg/L
Hexachlorobutadiene	USEPA 8260B	2.0	0.25	µg/L
2-Hexanone	USEPA 8260B	10	2.5	µg/L
Isopropyl Ether (DIPE)	USEPA 8260B	2.0	0.25	µg/L
Isopropylbenzene	USEPA 8260B	1.0	0.25	µg/L
p-Isopropyltoluene	USEPA 8260B	2.0	0.25	µg/L
Methyl tert-Butyl Ether (MTBE)	USEPA 8260B	1.0	0.25	µg/L
4-Methyl-2-Pentanone (MIBK)	USEPA 8260B	10	2.5	µg/L
Methylene Chloride	USEPA 8260B	5.0	0.88	µg/L
Naphthalene	USEPA 8260B	5.0	0.40	µg/L
n-Propylbenzene	USEPA 8260B	2.0	0.25	µg/L
Styrene	USEPA 8260B	1.0	0.25	µg/L
tert-Amyl Methyl Ether (TAME)	USEPA 8260B	2.0	0.25	µg/L
1,1,1,2-Eetrachloroethane	USEPA 8260B	1.0	0.25	µg/L
1,1,2,2-Tetrachloroethane	USEPA 8260B	1.0	0.25	µg/L
Tetrachloroethene (PCE)	USEPA 8260B	1.0	0.25	µg/L
Toluene	USEPA 8260B	1.0	0.25	µg/L
1,2,3-Trichlorobenzene	USEPA 8260B	2.0	0.40	µg/L
1,2,4-Trichlorobenzene	USEPA 8260B	2.0	0.40	µg/L
1,1,1-Trichloroethane	USEPA 8260B	1.0	0.25	µg/L
1,1,2-Trichloroethane	USEPA 8260B	1.0	0.25	µg/L
Trichloroethene (TCE)	USEPA 8260B	1.0	0.25	µg/L
Trichlorofluoromethane	USEPA 8260B	1.0	0.25	µg/L
1,2,3-Trichloropropane	USEPA 8260B	2.0	0.25	µg/L
1,2,4-Trimethylbenzene	USEPA 8260B	2.0	0.25	µg/L
1,3,5-Trimethylbenzene	USEPA 8260B	2.0	0.25	µg/L
Vinyl Chloride	USEPA 8260B	0.50	0.25	µg/L

Table 3 *Sample Analysis Matrix*
Source Area Operable Unit
Emhart Data
Rockets, Flares, and Fireworks Superfund Site

Analyte	Method	Reporting Limit (µg/L)	Method Detection Limit (µg/L)	Units
Volatile Organic Compounds				
m- & p-Xylene	USEPA 8260B	1.0	0.50	µg/L
o-Xylene	USEPA 8260B	1.0	0.25	µg/L
Xylenes, total	USEPA 8260B	2.0	0.50	µg/L
General Chemistry				
Perchlorate	USEPA 314.0	3.0	0.50	µg/L
Conductivity	USEPA 120.1	1.0	--	µmhos/cm

Abbreviations:
µg/L = Micrograms per liter
µmhos/cm = Micromhos per centimeter
USEPA = U.S. Environmental Protection Agency

Table 4 *Groundwater Summary Table*

Source Area Operable Unit

Emhart Data

Rockets, Flares, and Fireworks Superfund Site

Location	Date	Sample Type	1,2-DCA		Acetone		Carbon Tetrachloride		Chloroform		MTBE		Perchlorate		TBA		Toluene		TCE	
RIALTO_ROD_MCL			NS		NS		0.5		80.0		NS		6.0		NS		NS		5.0	
1N/5W-34D2S	5/24/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	36.6		< 10	U	< 1.0	U	1.3	
	8/28/2014	N	1.2		6.4	J	< 1.0	U	< 1.0	U	< 1.0	U	64.5		< 10	U	0.26	J	0.63	J
	7/28/2015	N	<0.50		<20		<1.0		<1.0		<1.0		83		<10		<1.0		<1.0	
1N/5W-34D3S	5/24/2013	N	< 1.0	U	4.1	J	< 1.0	U	< 1.0	U	< 1.0	U	59.2		< 10	U	< 1.0	U	1.6	
	8/28/2014	N	0.49	J	4.5	J	< 1.0	U	< 1.0	U	< 1.0	U	200		< 10	U	< 1.0	U	1.8	
	8/28/2014	FD	0.58	J	6.7	J	< 1.0	U	< 1.0	U	< 1.0	U	196		< 10	U	< 1.0	U	2.7	
	7/28/2015	N	<0.50		<20		<1.0		<1.0		<1.0		500		<10		<1.0		2.9	
EMW-01A	5/9/2014	N	< 2.5	U	13.7	J	< 2.5	U	< 2.5	U	< 2.5	U	38.0		< 25	U	190		< 2.5	U
	8/26/2014	N	1.6		16.2	J	< 1.0	U	< 1.0	U	< 1.0	U	12.6		< 10	U	10.6		2.6	
	8/26/2014	FD	1.5		17.6	J	< 1.0	U	< 1.0	U	< 1.0	U	12.7		< 10	U	10.2		2.5	
	4/1/2015	N	0.95		22.1		<1.0		<1.0		<1.0		4.6		<10		3.8		2.4	
	7/13/2015	N	0.72		<20		<1.0		<1.0		<1.0		4.9		<10		4.5		2.0	
	7/13/2015	FD	0.70		<20		<1.0		<1.0		<1.0		5.1		<10		4.5		2.0	
EMW-01B	5/9/2014	N	1.1		22.0		< 1.0	U	< 1.0	U	< 1.0	U	25.1		< 10	U	59.3		1.7	
	8/26/2014	N	1.6		12.2	J	< 1.0	U	< 1.0	U	< 1.0	U	3.6		< 10	U	154		< 1.0	U
	4/1/2015	N	<1.0		13		<1.0		<1.0		<1.0		345		<10		2.3		5	
	7/13/2015	N	1.3		21		<1.0		<1.0		<1.0		270		<10		44		3.9	
EMW-03A	5/9/2014	N	0.43	J	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	19.1		< 10	U	71.1		0.50	J
	8/28/2014	N	1.1		19.1	J	< 1.0	U	< 1.0	U	< 1.0	U	19.7		< 10	U	21.2		0.40	J
	8/28/2014	FD	1.2		22.5		< 1.0	U	< 1.0	U	< 1.0	U	20.7		< 10	U	21.3		0.44	J
	4/1/2015	N	<1.0		<20		<1.0		<1.0		<1.0		16.7		<10		<1.0		0.63	
	7/28/2015	N	<0.50		<20		<1.0		<1.0		<1.0		31		<10		2.5		<1.0	
EMW-03B	5/9/2014	N	1.6	J	< 40	U	< 2.0	U	< 2.0	U	< 2.0	U	68.9		< 20	U	149		1.1	J
	8/26/2014	N	1.9		12.4	J	< 1.0	U	< 1.0	U	< 1.0	U	1.2	J	< 10	U	41.2		0.82	J
	4/1/2015	N	<1.0		<20		<1.0		<1.0		<1.0		<3.0		<10		1.7		1.1	
	7/28/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
EMW-03C	5/9/2014	N	1.6	J	47.9	J	< 2.5	U	< 2.5	U	< 2.5	U	0.96	J	< 25	U	190		< 2.5	U
	8/28/2014	N	1.6		52.2		< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	19.5		< 1.0	U
	4/1/2015	N	0.21		8.4		<1.0		<1.0		<1.0		<3.0		<10		1.7		<1.0	
	7/28/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		2.4		<1.0	

Table 4 *Groundwater Summary Table*

Source Area Operable Unit

Emhart Data

Rockets, Flares, and Fireworks Superfund Site

Location	Date	Sample Type	1,2-DCA		Acetone		Carbon Tetrachloride		Chloroform		MTBE		Perchlorate		TBA		Toluene		TCE	
EMW-04A	5/9/2014	N	< 1.0	U	< 20	U	0.41	J	< 1.0	U	< 1.0	U	136		< 10	U	4.9		20.6	
	8/28/2014	N	0.70	J	15.5	J	0.74	J	0.23	J	< 1.0	U	130		< 10	U	4.6		21.4	
	4/1/2015	N	<1.0		10.7		0.4		0.24		<1.0		157		<10		<1.0		24	
	4/1/2015	FD	<1.0		7.1		0.43		0.23		<1.0		151		<10		<1.0		24.8	
	7/27/2015	N	<0.50		<20		<1.0		<1.0		<1.0		160		<10		<1.0		23	
	7/27/2015	FD	<0.50		<20		<1.0		<1.0		<1.0		160		<10		<1.0		25	
EMW-04B	5/9/2014	N	1.9		< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	13.6		< 10	U	45.2		4.5	
	8/26/2014	N	5.3		36.6		< 1.0	U	< 1.0	U	< 1.0	U	2.8	J	< 10	U	16.6		2.9	
	4/1/2015	N	0.29		<20		<1.0		<1.0		<1.0		35.8		<10		0.93		6.8	
	7/27/2015	N	<0.50		<20		<1.0		<1.0		<1.0		33		<10		<1.0		7.5	
EMW-04C	5/9/2014	N	2.2	J	< 100	U	< 5.0	U	< 5.0	U	< 5.0	U	10.0		< 50	U	246		< 5.0	U
	8/26/2014	N	1.5		20.2		< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	20.7		0.23	J
	4/1/2015	N	0.63		6		<1.0		<1.0		<1.0		<3.0		<10		7.2		0.34	
	7/27/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		3.2		<1.0	
EMW-05A	5/9/2014	N	0.32	J	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	98.5		< 10	U	14.3		0.90	J
	5/9/2014	FD	0.64	J	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	98.8		< 10	U	26.1		0.78	J
	8/29/2014	N	0.91	J	9.0	J	< 1.0	U	< 1.0	U	< 1.0	U	99.2		< 10	U	4.1		0.89	J
	7/28/2015	N	<0.50		<20		<1.0		<1.0		<1.0		130		<10		1.3		1.1	
EMW-05B	5/9/2014	N	0.89	J	4.0	J	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	15.0		2.0	
	8/29/2014	N	1.3		< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	3.2		0.61	J
	7/28/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
EMW-05C	5/9/2014	N	0.65	J	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	41.8		< 1.0	U
	8/29/2014	N	0.31	J	9.2	J	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	4.1		< 1.0	U
	7/28/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		2.2		<1.0	
EPA-MP4A	5/22/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	0.22	J	< 3.0	U	< 10	U	< 1.0	U	0.78	J
	8/29/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	3.2		< 10	U	< 1.0	U	0.95	J
	7/16/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
EPA-MP4B	5/22/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	0.68	J
	8/29/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	1.4	J	< 10	U	< 1.0	U	0.32	J
	7/16/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
EPA-MP4C	5/22/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	2.9	
	8/29/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	0.87	J	< 10	U	< 1.0	U	1.2	
	8/29/2014	FD	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	1.5	
	7/16/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		1.9	
	7/16/2015	FD	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		1.3	

Table 4 *Groundwater Summary Table*

Source Area Operable Unit

Emhart Data

Rockets, Flares, and Fireworks Superfund Site

Location	Date	Sample Type	1,2-DCA		Acetone		Carbon Tetrachloride		Chloroform		MTBE		Perchlorate		TBA		Toluene		TCE	
EPA-MP4D	5/22/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	5.5		< 10	U	< 1.0	U	4.3	
	5/22/2013	FD	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	5.4		< 10	U	< 1.0	U	6.0	
	8/29/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	0.92	J	< 10	U	< 1.0	U	6.0	
	7/16/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		2.5	
	7/16/2015	FD	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		2.8	
EPA-MP4E	5/22/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	5/22/2013	FD	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	8/29/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	7/16/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
	7/16/2015	FD	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
EPA-MW9A	5/24/2013	N	0.95	J	7.7	J	< 1.0	U	< 1.0	U	< 1.0	U	199		< 10	U	20.5		7.5	
	8/28/2014	N	4.8		24.3		< 1.0	U	< 1.0	U	< 1.0	U	2.1	J	< 10	U	192		< 1.0	U
	7/30/2015	N	<0.50		<20		<1.0		<1.0		<1.0		60		<10		3.1		3.8	
	7/30/2015	FD	<0.50		<20		<1.0		<1.0		<1.0		61		<10		3.1		3.6	
EPA-MW9B	5/24/2013	N	< 1.0	U	5.3	J	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	8/28/2014	N	0.26	J	10.0	J	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	0.55	J	< 1.0	U
	7/29/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
PW-2	5/24/2013	N	1.2		4.3	J	< 1.0	U	0.51	J	0.29	J	59.1		< 10	U	< 1.0	U	91.4	
	8/28/2014	N	< 1.0	U	< 20	U	< 1.0	U	0.61	J	0.25	J	22.4		< 10	U	< 1.0	U	111	
	7/28/2015	N	<0.50		<20		<1.0		<1.0		<1.0		87		<10		<1.0		150	
PW-3	5/24/2013	N	< 1.0	U	< 20	U	< 1.0	U	2.2		< 1.0	U	32.0		< 10	U	< 1.0	U	15.9	
	8/28/2014	N	< 1.0	U	< 20	U	< 1.0	U	1.5		< 1.0	U	28.5		< 10	U	< 1.0	U	11.5	
	7/28/2015	N	<0.50		<20		<1.0		1.6		<1.0		11		<10		<1.0		6.4	
PW-4	5/24/2013	N	0.39	J	6.6	J	< 1.0	U	< 1.0	U	< 1.0	U	18.3		< 10	U	< 1.0	U	13.1	
	8/28/2014	N	< 1.0	U	5.3	J	< 1.0	U	< 1.0	U	< 1.0	U	23.3		< 10	U	< 1.0	U	28.9	
	7/28/2015	N	<0.50		<20		<1.0		<1.0		<1.0		20		<10		<1.0		27	
PW-5A	5/21/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	169		< 10	U	< 1.0	U	0.26	J
	8/28/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	101		< 10	U	< 1.0	U	2.7	
	7/16/2015	N	<0.50		<20		<1.0		<1.0		<1.0		54		<10		<1.0		1.7	
PW-5B	5/21/2013	N	< 1.0	U	< 20	U	< 1.0	U	0.23	J	< 1.0	U	192		2.9	J	< 1.0	U	31.4	
	8/28/2014	N	< 1.0	U	< 20	U	< 1.0	U	0.34	J	< 1.0	U	136		< 10	U	< 1.0	U	36.3	
	7/16/2015	N	<0.50		<20		<1.0		<1.0		<1.0		82		<10		<1.0		24	
PW-5C	5/21/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	140		< 10	U	< 1.0	U	21.2	
	8/28/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	153		< 10	U	< 1.0	U	19.8	
	7/16/2015	N	<0.50		<20		<1.0		<1.0		<1.0		180		<10		<1.0		34	

Table 4 *Groundwater Summary Table*

Source Area Operable Unit

Emhart Data

Rockets, Flares, and Fireworks Superfund Site

Location	Date	Sample Type	1,2-DCA		Acetone		Carbon Tetrachloride		Chloroform		MTBE		Perchlorate		TBA		Toluene		TCE	
PW-5D	5/21/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	908		< 10	U	< 1.0	U	21.0	
	8/28/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	666		< 10	U	< 1.0	U	21.9	
	7/16/2015	N	<0.50		<20		<1.0		<1.0		<1.0		530		<10		<1.0		35	
PW-5E	5/21/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	274		< 10	U	< 1.0	U	4.4	
	8/28/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	299		< 10	U	< 1.0	U	6.9	
	7/16/2015	N	<0.50		<20		<1.0		<1.0		<1.0		410		<10		<1.0		22	
PW-6A	5/21/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	54.1		< 10	U	< 1.0	U	1.5	
PW-6B	5/21/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	59.2		< 10	U	< 1.0	U	2.7	
	8/27/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	123		< 10	U	< 1.0	U	4.4	
	7/15/2015	N	<0.50		<20		<1.0		<1.0		<1.0		140		<10		<1.0		3.9	
PW-6C	5/21/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	18.1		< 10	U	< 1.0	U	0.93	J
	8/27/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	42.5		< 10	U	< 1.0	U	4.1	
	7/15/2015	N	<0.50		<20		<1.0		<1.0		<1.0		84		<10		<1.0		6.2	
	7/15/2015	FD	<0.50		<20		<1.0		<1.0		<1.0		84		<10		<1.0		5.8	
PW-6D	5/21/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	197		< 10	U	< 1.0	U	3.1	
	8/27/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	420		< 10	U	< 1.0	U	9.1	
	7/15/2015	N	<0.50		<20		<1.0		<1.0		<1.0		430		<10		<1.0		16	
PW-6E	5/21/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	5/21/2013	FD	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	8/27/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	7/15/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
PW-7B	5/23/2013	N	< 1.0	U	< 20	U	< 1.0	U	0.28	J	< 1.0	U	3.1		< 10	U	< 1.0	U	< 1.0	U
	8/27/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	4.0		< 10	U	< 1.0	U	0.89	J
	7/17/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
PW-7C	5/23/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	7.6		< 10	U	< 1.0	U	0.66	J
	5/23/2013	FD	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	0.65	J
	8/27/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	6.2		< 10	U	< 1.0	U	1.1	
	7/17/2015	N	<0.50		<20		<1.0		<1.0		<1.0		4.3		<10		<1.0		<1.0	
	7/17/2015	FD	<0.50		<20		<1.0		<1.0		<1.0		4.0		<10		<1.0		<1.0	
PW-7D	5/22/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	0.24	J
	8/27/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	1.1	J	< 10	U	< 1.0	U	< 1.0	U
	7/17/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
PW-7E	5/22/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	49.9		< 10	U	< 1.0	U	4.5	
	8/27/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	33.0		< 10	U	< 1.0	U	3.9	
	7/17/2015	N	<0.50		<20		<1.0		<1.0		<1.0		21		<10		<1.0		2.9	

Table 4 *Groundwater Summary Table*

Source Area Operable Unit

Emhart Data

Rockets, Flares, and Fireworks Superfund Site

Location	Date	Sample Type	1,2-DCA		Acetone		Carbon Tetrachloride		Chloroform		MTBE		Perchlorate		TBA		Toluene		TCE	
PW-7F	5/22/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	26.7		< 10	U	< 1.0	U	0.85	J
	8/27/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	31.7		< 10	U	< 1.0	U	0.75	J
	7/17/2015	N	<0.50		<20		<1.0		<1.0		<1.0		40	J	<10		<1.0		1.8	
PW-7G	5/22/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	8/27/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	4.6		< 10	U	< 1.0	U	< 1.0	U
	7/17/2015	N	<0.50		<20		<1.0		<1.0		<1.0		5.1		<10		<1.0		<1.0	
PW-8A	5/23/2013	N	< 1.0	U	< 20	U	0.20	J	0.32	J	< 1.0	U	73.2		< 10	U	< 1.0	U	29.3	
	8/28/2014	N	< 1.0	U	< 20	U	0.25	J	0.32	J	< 1.0	U	150		< 10	U	< 1.0	U	22.6	
	7/20/2015	N	<0.50		<20		<1.0		<1.0		<1.0		42		<10		<1.0		14	
PW-8B	5/23/2013	N	< 1.0	U	< 20	U	< 1.0	U	0.24	J	< 1.0	U	109		< 10	U	< 1.0	U	26.6	
	8/28/2014	N	< 1.0	U	< 20	U	< 1.0	U	0.38	J	< 1.0	U	88.0		< 10	U	< 1.0	U	34.5	
	7/20/2015	N	<0.50		<20		<1.0		<1.0		<1.0		98		<10		<1.0		19	
PW-8C	5/23/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	18.3		< 10	U	< 1.0	U	0.52	J
	8/28/2014	N	< 1.0	J, UJ	< 20	J, UJ	< 1.0	J, UJ	< 1.0	J, UJ	< 1.0	J, UJ	44.0		< 10	J, UJ	< 1.0	J, UJ	0.54	J
	7/20/2015	N	<0.50		<20		<1.0		<1.0		<1.0		44		<10		<1.0		<1.0	
PW-8D	5/23/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	8/28/2014	N	< 1.0	U, UJ	< 20	U, UJ	< 1.0	U, UJ	< 1.0	U, UJ	< 1.0	U, UJ	< 3.0	U	< 10	U, UJ	< 1.0	U, UJ	< 1.0	U, UJ
	8/28/2014	FD	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	7/20/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
	7/20/2015	FD	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	
PW-8E	5/23/2013	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	< 3.0	U	< 10	U	< 1.0	U	< 1.0	U
	8/28/2014	N	< 1.0	U	< 20	U	< 1.0	U	< 1.0	U	< 1.0	U	0.81	J	< 10	U	< 1.0	U	< 1.0	U
	7/17/2015	N	<0.50		<20		<1.0		<1.0		<1.0		<3.0		<10		<1.0		<1.0	

Notes:
Results in micrograms per liter.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.
Shaded values indicate concentrations above the cleanup standards established in the 2010 ROD.
J = The associated numerical value is an estimated quantity.
U = Nondetected
UJ = Nondetected sample result qualified as estimated.

Abbreviations:
DCA = Dichloroethane
FD = Field duplicate sample
MCL = Maximum contaminant level
MTBE = Methyl tert butyl ether
N = Normal environmental sample
NS = No standard
ROD = Record of Decision
TBA = tert-butyl alcohol
TCE = Trichloroethene

Table 5 *Groundwater Summary Table*

County Data

Rockets, Flares, and Fireworks Superfund Site

Location	Date	Perchlorate		TCE	
RL		4		0.5	
MDL		1.3		0.085	
RIALTO_ROD_MCL		6.0		5.0	
M-1D	7/20/2015	10.0		5.9	
M2-7	7/22/2015	ND		ND	
M2-6	7/22/2015	ND		ND	
M2-5	7/22/2015	ND		ND	
M2-4	7/23/2015	16.0		0.3	J
M2-3	7/23/2015	12.0		0.2	J
M2-2	7/23/2015	8.6		0.3	J
M3-7	7/21/2015	3.3		ND	
M3-6	7/21/2015	33.0		10.0	
M3-5	7/21/2015	56.0		18.0	
M3-4	7/21/2015	39.0		26.0	
M3-3	7/21/2015	39.0		27.0	
M3-2	7/21/2015	52.0		39.0	
M3-1	7/21/2015	33.0		17.0	
M-4S	7/20/2015	5.3		ND	
M-4D	7/20/2015	ND		ND	
M5-7	7/22/2015	ND		ND	
M5-6	7/22/2015	ND		ND	
M5-5	7/22/2015	ND		ND	
M5-4	7/22/2015	3.1	J	ND	
M5-3	7/22/2015	1.4		ND	
M5-2	7/22/2015	1.4	J	0.6	
M5-1	7/22/2015	ND		0.5	
M6-7	7/21/2015	ND		ND	
M6-6	7/21/2015	ND		ND	
M6-5	7/21/2015	ND		ND	
M6-4	7/21/2015	6.2		ND	
M6-3	7/21/2015	18		6.9	
M6-2	7/21/2015	18.0		1.6	
M6-1	7/21/2015	5.8		2.8	
N1-D	7/21/2015	6.6		2.6	
N2-D	7/21/2015	ND		ND	
N3-S	7/20/2015	7.3		6.2	
N5	7/22/2015	ND		0.2	J
N6-S	7/20/2015	9.1		1.4	
N7-S	7/22/2015	6.4		0.6	
N8-S	7/20/2015	12.0		11.0	
N10-D	7/20/2015	26.0		9.8	
N10-S	7/21/2015	7.0		2.6	
N11-D	7/20/2015	8.7		1.4	
N12	7/20/2015	8.5		13.0	
N13-D	7/20/2015	8.2		1.0	
N13-S	7/20/2015	140.0		27.0	
N14-S	8/18/2015	ND		ND	
N15-S	7/20/2015	ND		ND	
N16-B	7/20/2015	ND		0.5	J
N16-C1	7/20/2015	ND		ND	
N16-C2	7/20/2015	1.3	J	ND	
N18-B	7/20/2015	ND		0.6	
N18-C2	7/20/2015	ND		ND	

Table 5 *Groundwater Summary Table*

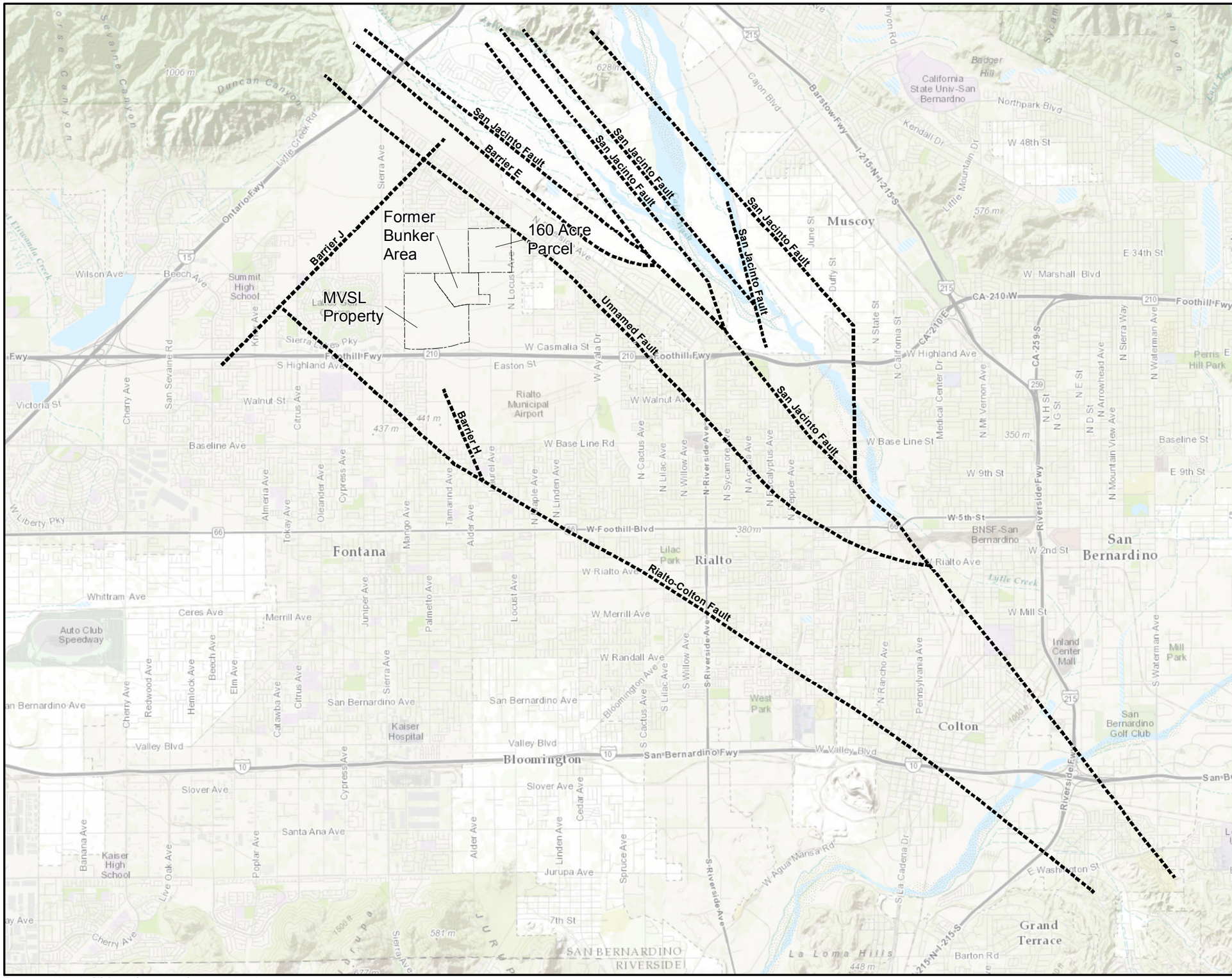
County Data

Rockets, Flares, and Fireworks Superfund Site

Location	Date	Perchlorate		TCE	
N19R-B	7/21/2015	9.4		10.0	
N19R-C1	7/21/2015	ND		ND	
N19R-C2	7/21/2015	6.2		2.4	
N20-6	7/23/2015	ND		ND	
N20-5	7/23/2015	ND		ND	
N20-4	7/23/2015	ND		ND	
N20-3	7/23/2015	ND		0.7	
N20-1	7/23/2015	ND		0.8	
B-14	7/21/2015	ND		ND	
B-22	7/21/2015	2.0	J	22.0	
B-23S	7/21/2015	ND		0.2	J
Miro-2	7/23/2015	ND		0.5	
Miro-3	7/22/2015	21.0		4.2	
Rialto 3	2/24/2015	17.0		1.4	
F-6	7/27/2015	ND		7.4	
F-6AD	7/22/2015	ND		0.2	J
F-32	7/21/2015	ND		ND	
F-32	7/28/2015	ND		ND	

Notes:
Results in micrograms per liter.
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.
Shaded values indicate concentrations above the cleanup standards established in the 2010 ROD.
U = Nondetected
UJ = Nondetected sample result qualified as estimated.

Figures



EXPLANATION

SITE BOUNDARY

APPROXIMATE LOCATION FAULT/GEOLOGIC CONTACT

DRAFT

N

0 1,500 3,000 6,000 Feet

1 " = 6,000 '

Site Location Map

Date 07-2015		Figure
Project No. 60342184	AECOM	1

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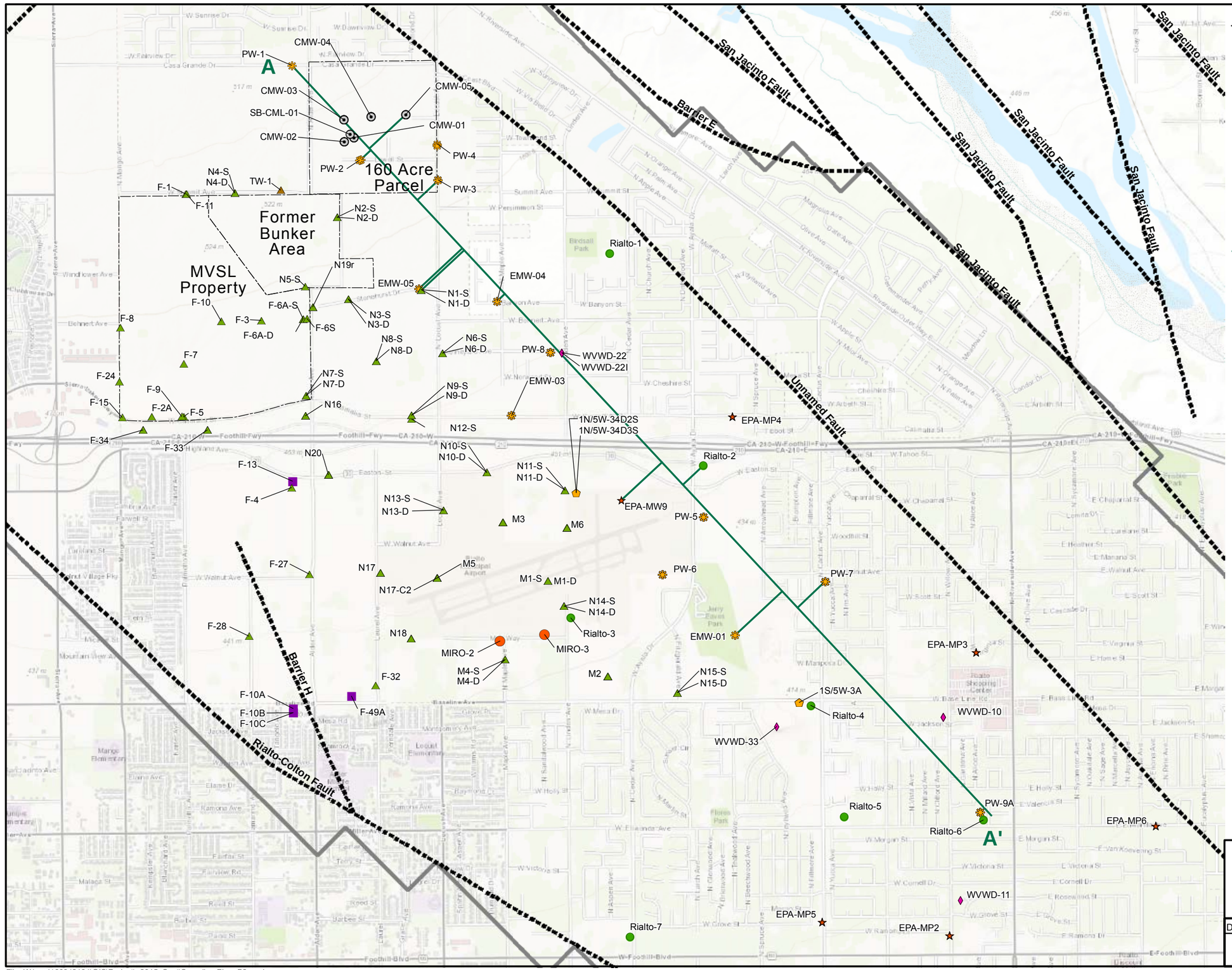
Date: Monday, July 20, 2015 9:57:20 AM



Sampling Plan

Date 10-2015		Figure
Project No. 60342184	AECOM	2

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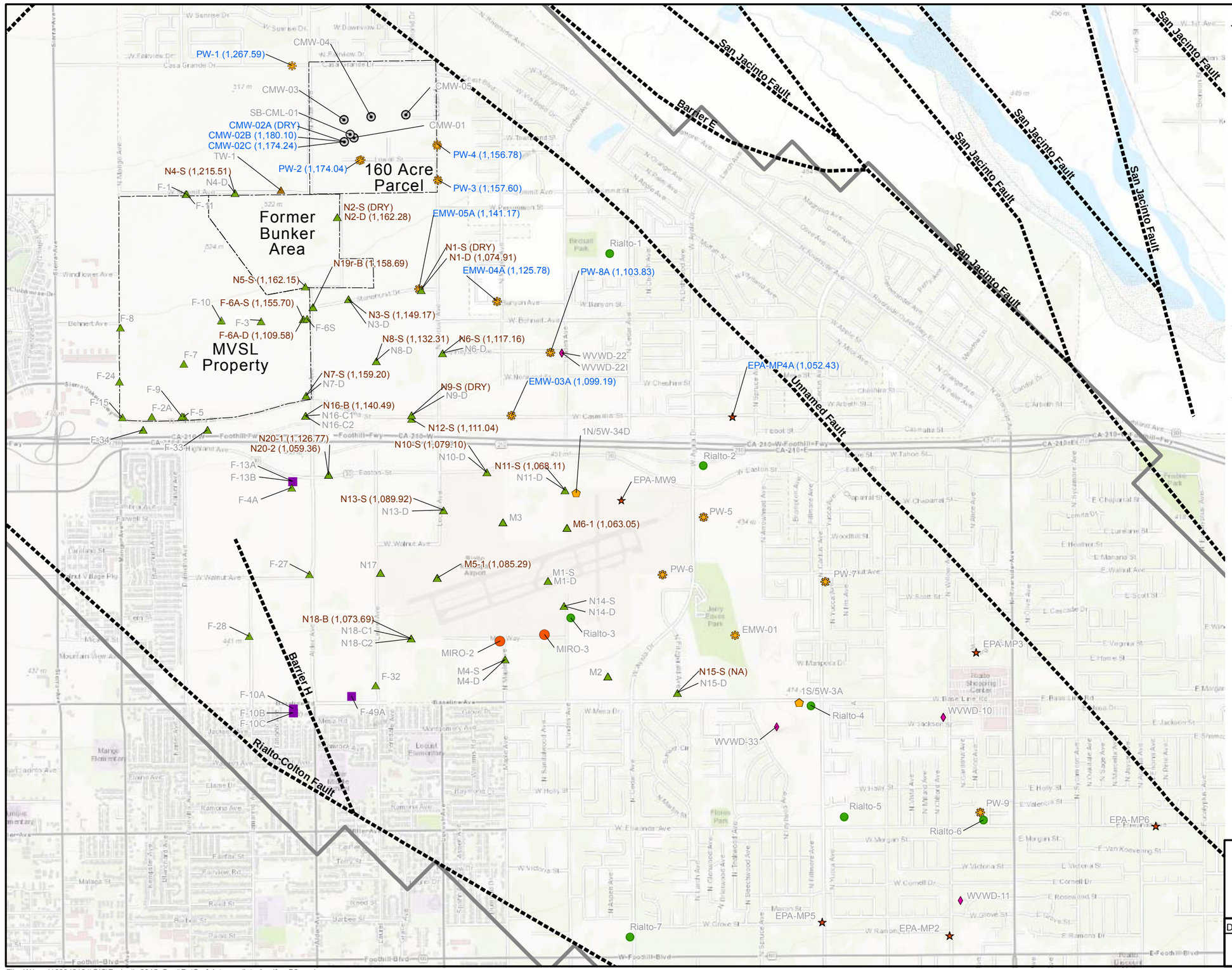
Date: Friday, October 09, 2015 12:55:26 AM



EXPLANATION

- SOURCE AREA OPERABLE UNIT MONITORING WELL
- MIRO WELL
- 160 ACRE AREA MONITORING WELL
- CITY OF COLTON PRODUCTION WELL
- CITY OF RIALTO PRODUCTION WELL
- EPA MONITORING WELL
- FONTANA WATER COMPANY PRODUCTION WELL
- OTHER PRODUCTION/MONITORING WELL
- SAN BERNARDINO COUNTY MVSL WELL
- USGS CLUSTER WELL
- WEST VALLEY WATER DISTRICT PRODUCTION WELL
- SITE BOUNDARY
- MODEL BOUNDARY
- FAULTS

ABBREVIATIONS

FT	FEET
MSL	MEAN SEA LEVEL
NA	NOT AVAILABLE

NOTES

1. LOCATIONS WITHOUT DATA POSTED ARE NOT SCREENED WITHIN THE AQUIFER.
2. AVERAGE ELEVATION POSTED FOR WELLS WITH MULTIPLE SCREENING LEVELS WITHIN THE ZONE.
3. WELLS WITH BROWN LABELS ARE GAUGED BY SAN BERNARDINO COUNTY, WELLS WITH BLUE LABELS GAGED BY EMHART.

N

0 500 1,000 2,000 Feet

1 " = 2,000 '

Groundwater Elevation Data Intermediate Aquifer

Date 10-2015	AECOM	Figure
Project No. 60342184		3

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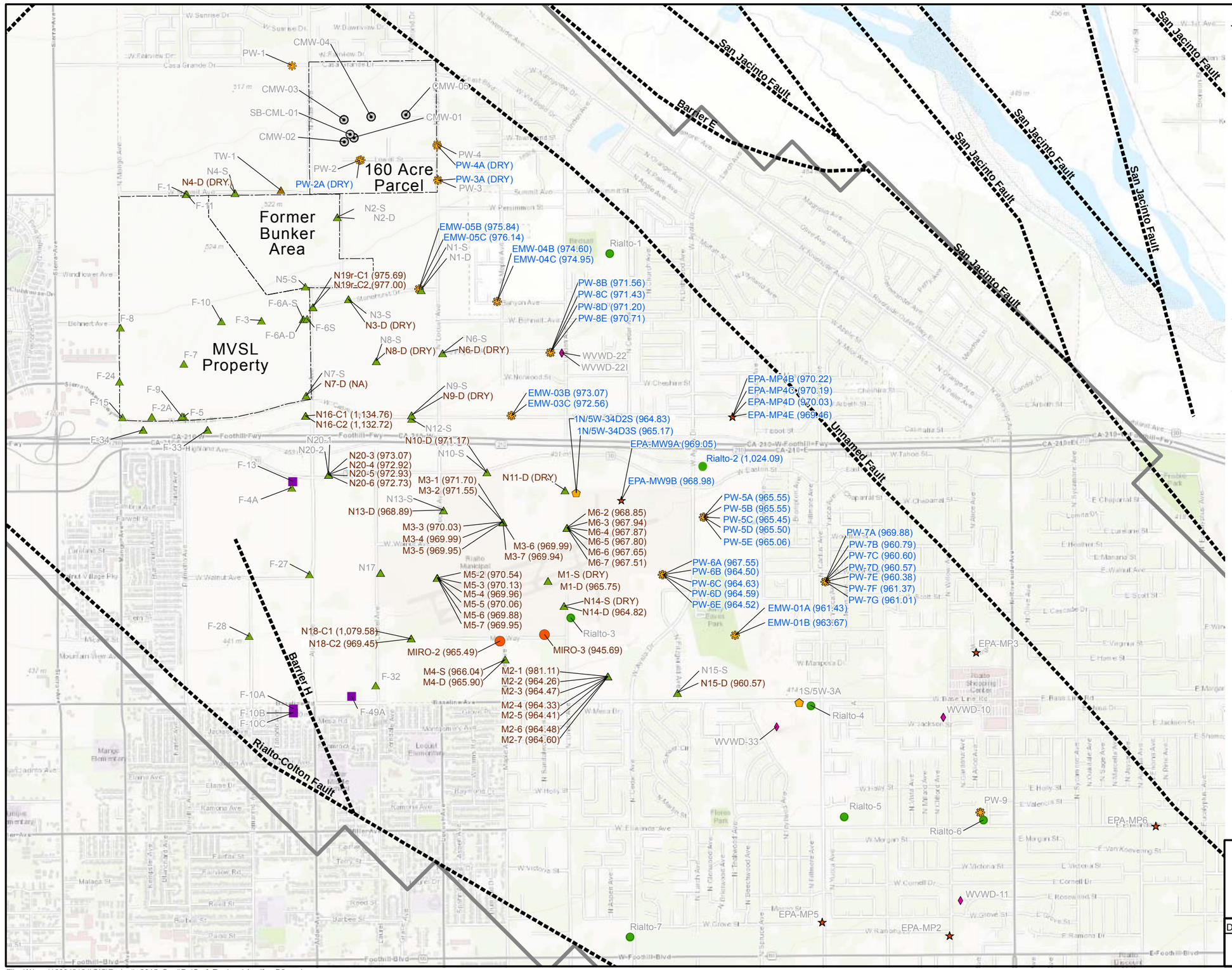


EXPLANATION

- SOURCE AREA OPERABLE UNIT MONITORING WELL
- MIRO WELL
- 160 ACRE AREA MONITORING WELL
- CITY OF COLTON PRODUCTION WELL
- CITY OF RIALTO PRODUCTION WELL
- EPA MONITORING WELL
- FONTANA WATER COMPANY PRODUCTION WELL
- OTHER PRODUCTION/MONITORING WELL
- SAN BERNARDINO COUNTY MVSL WELL
- USGS CLUSTER WELL
- WEST VALLEY WATER DISTRICT PRODUCTION WELL
- SITE BOUNDARY
- MODEL BOUNDARY
- FAULTS

ABBREVIATIONS

FT	FEET
MSL	MEAN SEA LEVEL
NA	NOT AVAILABLE

NOTES

1. LOCATIONS WITHOUT DATA POSTED ARE NOT SCREENED WITHIN THE AQUIFER.
2. AVERAGE ELEVATION POSTED FOR WELLS WITH MULTIPLE SCREENING LEVELS WITHIN THE ZONE.
3. WELLS WITH BROWN LABELS ARE GAUGED BY SAN BERNARDINO COUNTY, WELLS WITH BLUE LABELS GAGED BY EMHART.

N

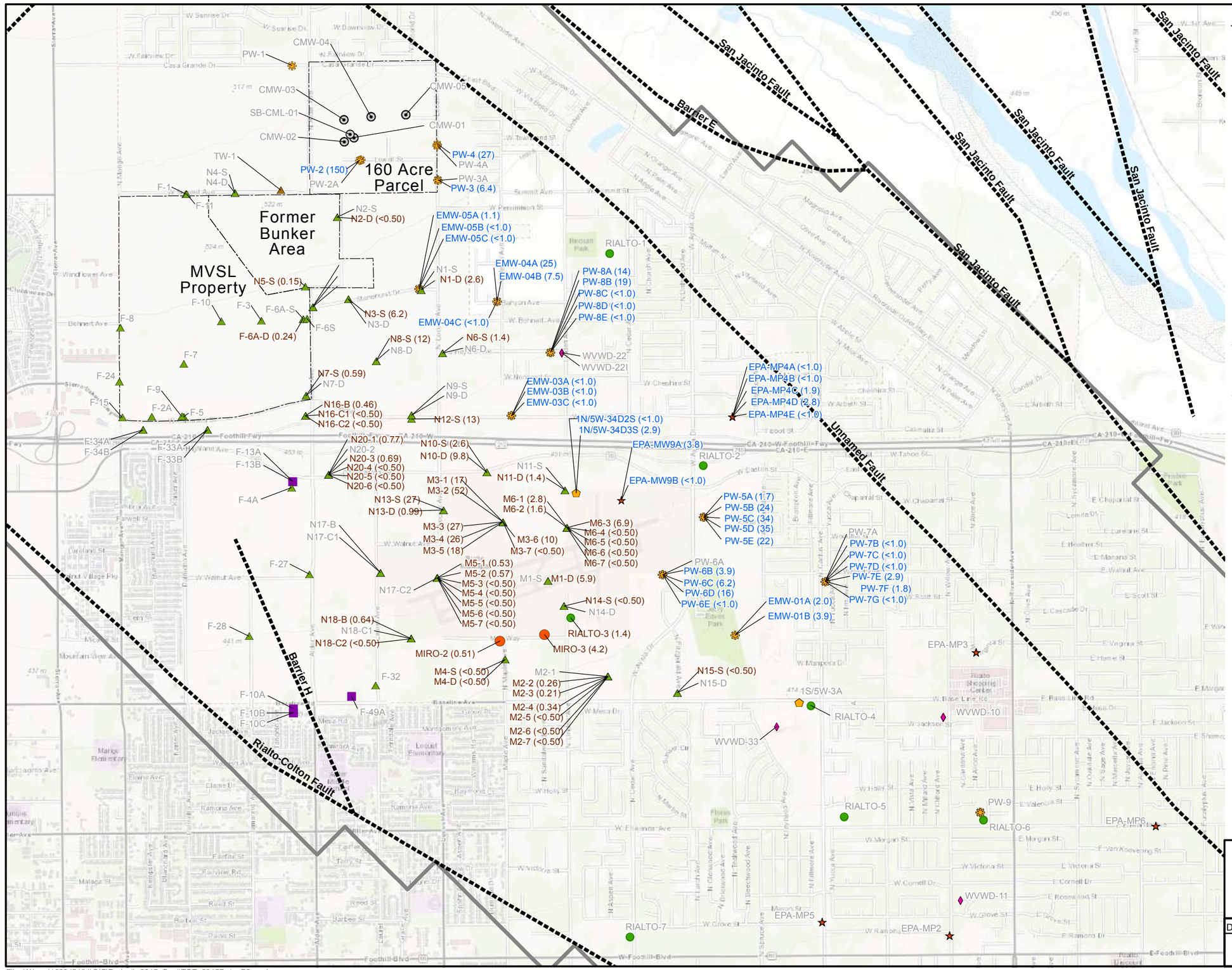
0 500 1,000 2,000 Feet

1 " = 2,000 '

Groundwater Elevation Data Regional Aquifer

Date 10-2015	AECOM	Figure
Project No. 60342184		4

File: W:\work\60342184\GIS\Project_2015_Sept\PotSurf_Regional Aquifer_B2.mxd
Date: Friday, October 09, 2015 1:25:05 AM



EXPLANATION

- SOURCE AREA OPERABLE UNIT MONITORING WELL
- MIRO WELL
- 160 ACRE AREA MONITORING WELL
- CITY OF COLTON PRODUCTION WELL
- CITY OF RIALTO PRODUCTION WELL
- EPA MONITORING WELL
- FONTANA WATER COMPANY PRODUCTION WELL
- OTHER PRODUCTION/MONITORING WELL
- SAN BERNARDINO COUNTY MVSL WELL
- USGS CLUSTER WELL
- WEST VALLEY WATER DISTRICT PRODUCTION WELL
- ( ) TCE CONCENTRATION (MICROGRAMS PER LITER)
- SITE BOUNDARY
- MODEL BOUNDARY
- FAULTS

ABBREVIATIONS

ND NOT DETECTED
TCE TRICHLOROETHENE

NOTES

1. WELLS WITH BROWN LABELS ARE SAMPLED BY SAN BERNARDINO COUNTY, WELLS WITH BLUE LABELS SAMPLED BY EMHART.

N

0 500 1,000 2,000 Feet

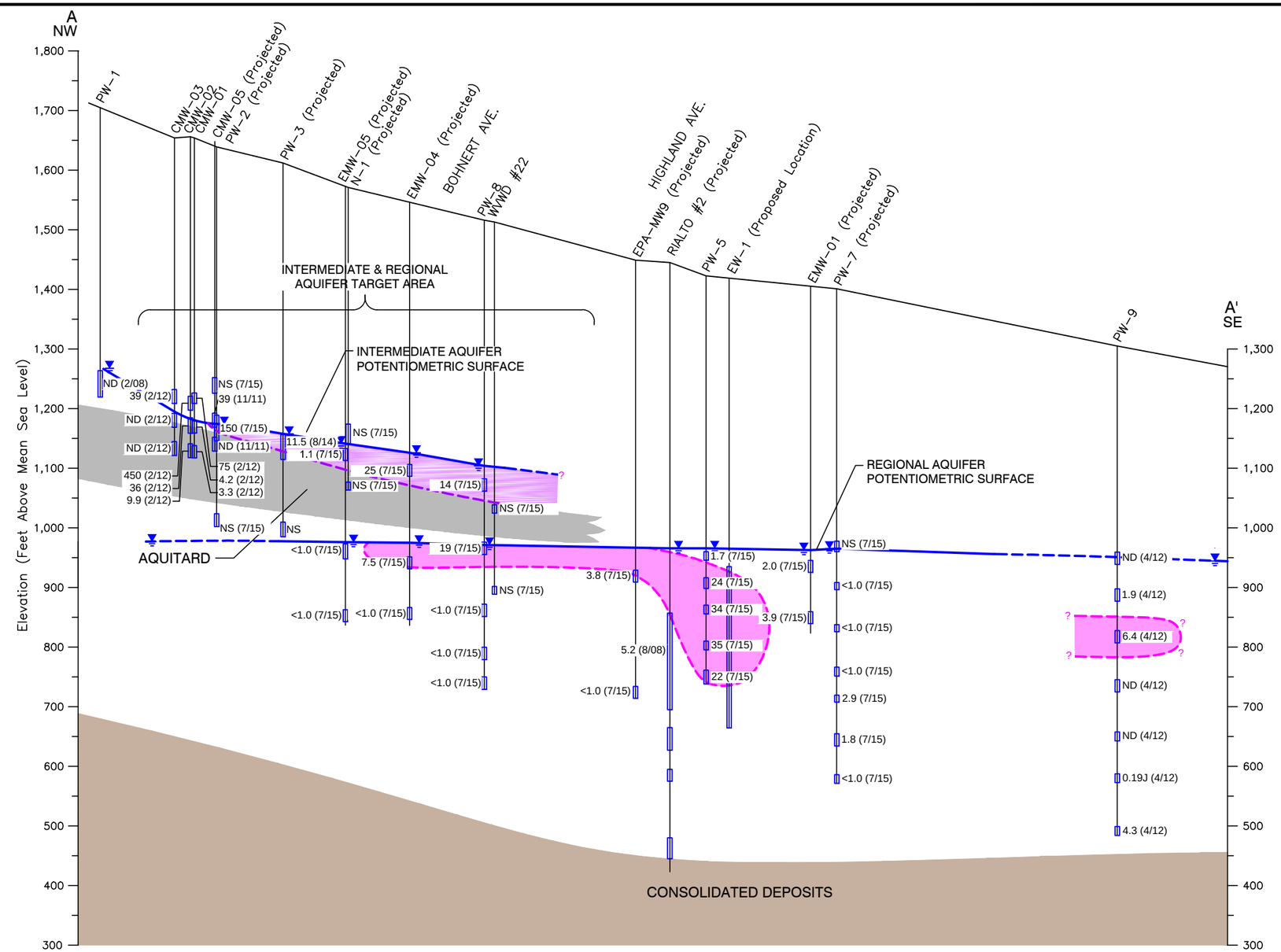
1 " = 2,000 '

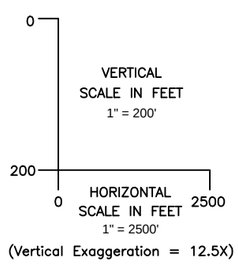
TCE Concentration
July 2015 Data

Date 10-2015	AECOM	Figure
Project No. 60342184		5

File: W:\work\60342184\GIS\Project_2015_Sept\TCE_2015Data_B2.mxd
Date: Friday, October 09, 2015 12:40:34 AM

DRAFT





Extent of TCE Concentrations exceeding the Maximum Contaminant Level (5μg/L) in the Intermediate Aquifer; dashed and queried where not certain

Extent of TCE Concentrations exceeding the Maximum Contaminant Level (5μg/L) in the Regional Aquifer; dashed and queried where not certain

Approximate Extent of Aquitard

Approximate Extent of Consolidated Deposits

Groundwater Screen Interval

Water Elevation; most recent data available as of July 2015 in the Intermediate or Regional Aquifer as noted; dashed where not certain

22 (7/15) TCE Concentration in μg/L and (month/year sampled); most recent data available as of July 2015. Duplicates are shown as the secondary sample.

ND Not Detected
NS Not Sampled
J Estimated Concentration
μg/L Micrograms per Liter
TCE Trichloroethene

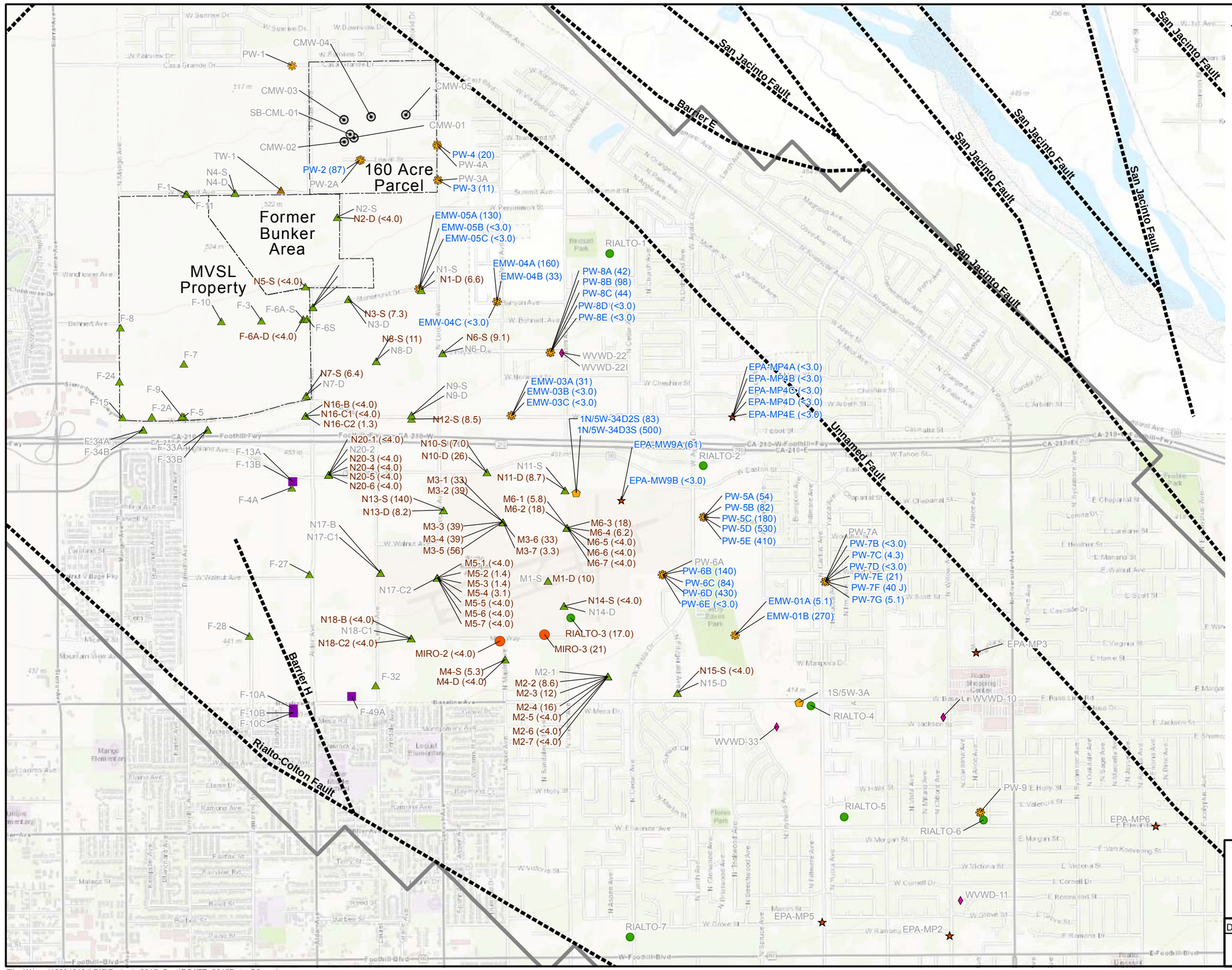
Note: Consolidated Deposits base on interpretation by the USGS (2001) and referenced by DPRA (2008)

Location of A-A' depicted on figure 2.

Cross Section A-A' of TCE in Groundwater
Source Area Operable Unit
Rockets, Fireworks, and Flares Superfund Site
Rialto, California

Date 10-2015	AECOM	Figure
Project No. 60342184		6

File: W:\work\60342184\GIS\Project_2015_Sept\Cross Section A-A'_B1.dwg Time: Oct 07, 2015 - 10:05am



EXPLANATION

- SOURCE AREA OPERABLE UNIT MONITORING WELL
- MIRO WELL
- 160 ACRE AREA MONITORING WELL
- CITY OF COLTON PRODUCTION WELL
- CITY OF RIALTO PRODUCTION WELL
- EPA MONITORING WELL
- FONTANA WATER COMPANY PRODUCTION WELL
- OTHER PRODUCTION/MONITORING WELL
- SAN BERNARDINO COUNTY MVSL WELL
- USGS CLUSTER WELL
- WEST VALLEY WATER DISTRICT PRODUCTION WELL
- ( ) PERCHLORATE CONCENTRATION (MICROGRAMS PER LITER)
- SITE BOUNDARY
- MODEL BOUNDARY
- FAULTS

ABBREVIATIONS

J THE ANALYTE WAS POSITIVELY IDENTIFIED, BUT THE ASSOCIATED NUMERICAL VALUE IS ESTIMATED AND REPRESENTS THE APPROXIMATE CONENTRATION OF THE ANALYTE IN THE SAMPLE.

ND NOT DETECTED

NOTES

1. WELLS WITH BROWN LABELS ARE SAMPLED BY SAN BERNARDINO COUNTY, WELLS WITH BLUE LABELS SAMPLED BY EMHART.

N

0 500 1,000 2,000 Feet

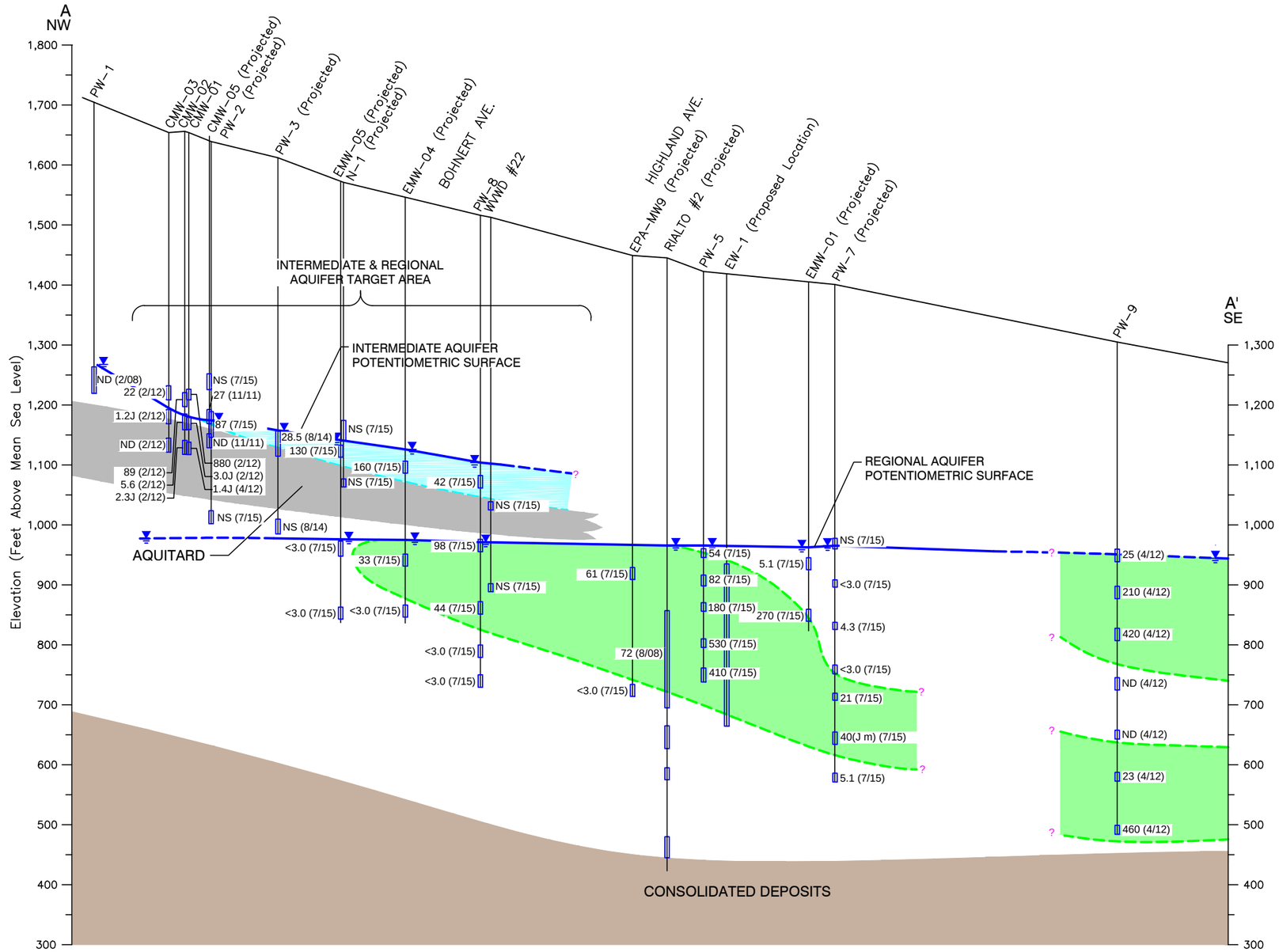
1 " = 2,000 '

Perchlorate Concentration
July 2015 Data

Date 10-2015	AECOM	Figure
Project No. 60342184		7

File: W:\work\60342184\GIS\Project_2015_Sept\PCATE_2015Data_B2.mxd
Date: Friday, October 09, 2015 12:33:04 AM

DRAFT



0
VERTICAL
SCALE IN FEET
1" = 200'
200

0
HORIZONTAL
SCALE IN FEET
1" = 2500'
2500

(Vertical Exaggeration = 12.5X)

Extent of Perchlorate Concentrations exceeding the Maximum Contaminant Level (6μg/L) in the Intermediate Aquifer; dashed and queried where not certain

Extent of Perchlorate Concentrations exceeding the Maximum Contaminant Level (6μg/L) in the Regional Aquifer; dashed and queried where not certain

Approximate Extent of Aquitard

Approximate Extent of Consolidated Deposits

Groundwater Screen Interval

Water Elevation; most recent data available as of July 2015 in the Intermediate or Regional Aquifer as noted; dashed where not certain

5.1 (7/15) Perchlorate Concentration in μg/L and (month/year sampled); most recent data available as of July 2015. Duplicates are shown as the secondary sample.

ND Not Detected
NS Not Sampled
J Estimated Concentration
μg/L Micrograms per Liter

Note: Consolidated Deposits base on interpretation by the USGS (2001) and referenced by DPRA (2008)

Location of A-A' depicted on figure 2.

Cross Section A-A' of Perchlorate in Groundwater
Source Area Operable Unit
Rockets, Fireworks, and Flares Superfund Site
Rialto, California

Date 10-2015	AECOM	Figure
Project No. 60342184		8

File: W:\work\60342184\GIS\Project_2015_Sept\Cross Section A-A'_B1.dwg Time: Oct 07, 2015 - 10:01am

Appendices

Appendix A

County Data

BC Laboratories, Inc.

Chain of Custody Form

Report To:
Client: Geologic Associates
Attn: Jason Sapp
Street Address: 250 W. 1st St. #228
City, State, Zip: Claremont CA 91711
Phone: Fax:
Email Address:
Work Order #:

Project #: 2013.0100
Project Name: Rialto Perchlorate
Sampler(s): A. Shaw, M. Campbell, B. Salinas

Analysis Requested

Comments: *VOCs (EPA 524.2) testing includes 1,2,3-TCP, TAME, TBA, ETBE and 1,1,2-TCTFA.

Please refer to the back of this page for completion instructions and method legend.

Sample #	Description	Date Sampled	Time Sampled	VOCs (524.2 EPA)	Perchlorate (EPA 314.0)	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
	M-1D	7/20/15	1315	x	x				x				
	M-4S		1332	x	x				x				
	M-4D		1245	x	x				x				
	N3-4		0850	x	x				x				
	N6-4		1040	x	x				x				
	N8-4		1010	x	x				x				
	N10-2		0836	x	x				x				
	N11-2		0830	x	x				x				
	N12		1200	x	x				x				
	N13-2		1516	x	x				x				
	N13-4		1445	x	x				x				
	N15-4		0910	x	x				x				
	N16-B		1338	x	x				x				
	N16-C1		1428	x	x				x				

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

System # (Needed for EDT)

Billing
☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)

	Date	Time		Date	Time
1. Relinquished By	7/20/14	1706	1. Received By	7-21-15	1248
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

BC Laboratories, Inc.

Chain of Custody Form

Report To:
Client: Geologic Associates
Attn: Jason Scott
Street Address: 250 N First St #228
City, State, Zip: Claremont, CA 91711
Phone: 626-2282 Fax: 626-1233
Email Address:
Work Order #:

Project #: 2013-0166
Project Name: Rialto Perchlorate
Sampler(s): B. Salmon, A. Shaw, M. Campbell

Analysis Requested

Comments:

Sample #	Description	Date Sampled	Time Sampled	VOC - EPA 524.2	1,4-Dioxane, TCP, TAME, TBA, ETBE, DIPE, 1,2-DCA, TCEFA	Perchlorate (EPA 314.0)	Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*
1	N16-C2	7/20/15	15:20	X	X	X				X			
	N18-B		11:10	X	X	X				X			
	N18-C2		11:22	X	X	X				X			
	N-D-P		—	X	X	X				X			
	QCAB		—	X	X	X						X	
	QCEB		—	X	X	X						X	
	QCTB		—	X	X							X	

Lab QC HHC

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Notes

Billing ☒ Same as above

Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)

System # (Needed for EDT)

	Date	Time		Date	Time
1. Relinquished By	7-20-15	17:00	1. Received By	7-21-15	1248
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

BC Laboratories, Inc.

Chain of Custody Form

Page 1 of 2

Report To:	
Client: Clearwater Associates	Project #: 2013-C106
Attn: Jason Sapp	Project Name: Rialto Perchlorate
Street Address: 230 W. First St. Ste 22P	
City, State, Zip: Claremont, CA 91711	Sampler(s): ~~A. Bisalnas~~ M. Campbell
Phone: 626-2282 Fax: 626-1233	
Email Address:	
Work Order #:	

Analysis Requested

Comments:

Sample #	Description	Date Sampled	Time Sampled	VOCs EPA 524.2	1,2,3-TCP TAME ETBE	Perchlorate (EPA 314.0)								Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
	M3-7	7/21/15	0820	X	X	X											X				
	M3-6		0855	X	X	X											X				
	M3-5		0930	X	X	X											X				
	M3-4		10:05	X	X	X											X				
	M3-3		10:40	X	X	X											X				
	M3-2		11:10	X	X	X											X				
	M3-1		11:40	X	X	X											X				2 VOCs instead of 3
	M6-7		12:49	X	X	X											X				
	M6-6		13:30	X	X	X											X				
	M6-5		13:50	X	X	X											X				
	M6-4		14:17	X	X	X											X				
	M6-3		14:48	X	X	X											X				
	M6-2		15:16	X	X	X											X				2 VOCs instead of 3
	M6-1		15:45	X	X	X											X				

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Billing ☒ Same as above

Client:

Address:

City: State Zip

Attn:

PO#:

EDF Required? Geotracker ☒ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)

System # (Needed for EDT)

	Date	Time		Date	Time
1. Relinquished By	7/21/15	1700	1. Received By	7/22/15	11:30
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

BC Laboratories, Inc.

Chain of Custody Form

Report To:
Client: Geologic Associates
Attn: Jason Sapp
Street Address: 250 W. 1st St #228
City, State, Zip: Claremont CA 91711
Phone: 909 626-2787 Fax: 909 626-1233
Email Address:
Work Order #:

Project #: 203.0100
Project Name: Rialto Perchlorate
Sampler(s): A. Shaw, N. Reason

Analysis Requested

Comments:
* VOCs (524.2) testing includes 1,2,3-TCP, TAME, TBA, ETBE, and 1,1,2-TCTFA.

Sample #	Description	Date Sampled	Time Sampled	VOCs (EPA 524.2)	Perchlorate (EPA 314.0)	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other (D.I. H2O)	Turnaround # of work days*	Notes
1	F-32	7/21/15	1530	x	x				x				
	N1-2		1425	x	x				x				
	N2-2		1255	x	x				x				
	N10-4		0935	x	x				x				
	N19R-B		1130	x	x				x				
	N19R-C1		1215	x	x				x				
	N19R-C2		1310	x	x				x				
	B-23s		1045	x	x				x				
	B-23d		1130	x	x				x				
	B-14		0935	x	x				x				
	B-22		0840	x	x				x				
	QCAB		—	x							x		
	QCTB		—	x							x		

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Billing ☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)

System # (Needed for EDT)

	Date	Time		Date	Time
1. Relinquished By: C.C. Sl	7/21/15	1700	1. Received By:		
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

BC Laboratories, Inc.

Chain of Custody Form

Page 1 of 2

Report To: Client: Geologic Associates	Project #: 2013-016
Attn: Jason Sepp	Project Name: Ricke Perchlorate
Street Address: 250 W. First St E 228	
City, State, Zip: Claremont, Ca. 91711	Sampler(s): G. Solano, M. Campbell
Phone: 626-2282 909 Fax: 626-1233 909	
Email Address:	
Work Order #:	

Analysis Requested

Comments:

Sample #	Description	Date Sampled	Time Sampled	VOCs EPA 524.2	1,2,3-TCP/1,2,3-TCP/DBCP/EDB/EDC	Perchlorate EPA 314.0	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
	MS-7	7/22/15	0910	X	X	X				X				
	MS-6		0940	X	X	X				X				
	MS-5		10:15	X	X	X				X				
	MS-4		10:47	X	X	X				X				
	MS-3		11:16	X	X	X				X				
	MS-2		12:40	X	X	X				X				
	MS-1		13:20	X	X	X				X				
	M2-7		14:35	X	X	X				X				
	M2-6		15:15	X	X	X				X				
	M2-5		1545	X	X	X				X				
	M-Dup		—	X	X	X				X				
	QCAB		—	X	X							X		
	QCTB		—	X	X							X		

Lab 0.7 1.6

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☑ No

* Standard Turnaround = 10 work days

Billing ☑ Same as above

Client:

Address:

City: State Zip

Attn:

PO#:

EDF Required? Geotracker ☑ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☑ No

Global ID (Needed for EDF)

System # (Needed for EDT)

	Date	Time		Date	Time
1. Relinquished By	7-22-15	1700	1. Received By	7-23-15	1150
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

BC Laboratories, Inc.

Chain of Custody Form

Report To:
Client: Geologic Associates
Attn: Jason Sapp
Street Address: 250 W. 1st St. #228
City, State, Zip: Claremont CA 91711
Phone: 909 626-2282 Fax: 909 626-1233
Email Address:
Work Order #:

Project #: 2013.0100
Project Name: Richto Perchlorate
Sampler(s): A. Shaw

Analysis Requested

Please refer to the back of this page for completion instructions and method legend.

Comments:
* VOCs (EPA 524.2) includes 1,2,3-TCP, TAME, TBA, ETBE, and 1,1,2-TCTFA.

Sample #	Description	Date Sampled	Time Sampled	VOCs EPA 524.2 *	Perchlorate EPA 314.0	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
	Miro-3	7/22/15	0805	x	x				x				
	N-5		1040	x	x				x				
	N7-4		1200	x	x				x				
	F-6A2		1035	x	x				x				

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Notes

Billing ☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)

System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	7/22/15	1700	1. [signature]	7-23-15	1150
2.			2.		
3.			3.		

Geo-Logic
ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
WATER LEVEL SURVEY RECORD SHEET

Site RIALTO PERCHLORATE

Project No.: 2013.0100 / 2A

Date 7-20-15

Field Personnel BS, MC, AS

WELL I.D.	CONSTRUCTED TOTAL DEPTH (TD)	ACTUAL TOTAL DEPTH (TD)	DEPTH TO WATER (DTW)	COMMENTS
B-14	480		444.13	
B-22	440		432.52	
B-23D	665		652.78	
B-23S	490		445.17	
F6A-2	500		467.98	
F6A-4	437		422.10	
M-1D	535		465.57	
M-1S	458	455.40	Dry	
M-2	Label format: M2-1		NA	
M-3	Label format: M3-1		NA	
M-4D	590		442.56	
M-4S	470		442.51	
M-5	Label format: M5-1		NA	
M-6	Label format: M6-1		NA	
MIRO-2			453.62	
MIRO-3			469.32	
N1-2	501		494.83	
N1-4	425	425.20	Dry	
N2-2	502		456.88	
N2-4	445	445.90	Dry	

REMARKS:

Geo-Logic
ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
WATER LEVEL SURVEY RECORD SHEET

Site RIALTO PERCHLORATE

Project No.: 2013.0100 / 2A

Date 7-20-15

Field Personnel RES, MR, AS

WELL I.D.	CONSTRUCTED TOTAL DEPTH (TD)	ACTUAL TOTAL DEPTH (TD)	DEPTH TO WATER (DTW)	COMMENTS
N3-2	555	554.80	dry	
N3-4	462		428.11	
N4-2	631	~~619.45~~	431.59	
N4-4	515	619.45	Dry	
N-5	472		431.46	
N6-2	534	533.85	Dry	
N6-4	432		421.76	
N7-2	530	531.50	Dry	
N7-4	410		382.06	
N8-2	527	521.60	dry	
N8-4	461		411.97	
N9-2	530	526.60	dry	
N9-4	470	465.00	dry	
N10-2	435		405.10	
N10-4	556		513.03	
N11-2	413		392.15	
N11-4	495	487.75	Dry	
N-12	438		403.99	
N13-2	388		380.78	
N13-4	570		501.56	

REMARKS:

Geo-Logic
ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
WATER LEVEL SURVEY RECORD SHEET

Site RIALTO PERCHLORATE

Project No.: 2013.0100 / 2A

Date 7-20-15

Field Personnel BS, AS, MC

WELL I.D.	CONSTRUCTED TOTAL DEPTH (TD)	ACTUAL TOTAL DEPTH (TD)	DEPTH TO WATER (DTW)	COMMENTS
N14-2	438	436.70	Dry	
N14-4	580		455.03	
N15-2	405		Dry	
N15-4	640		413.67	
N16-B	445		390.25	
N16-C1	560		391.11	
N16-C2	599		391.15	
N17-B	405		NA	
N17-C1	490		NA	
N17-C2	590		NA	
N18-B	390		351.57	
N18-C1	490		345.74	
N18-C2	580		455.84	
N19R-B	460		421.66	
N19R-C1	624		604.60	
N19R-C2	690		603.24	
N-20	Label format: N20-1		NA	
S-2-2	496	301.95	Dry	
F-32			416.71	
S2-4			337.00	

REMARKS:

Geo-Logic
ASSOCIATES
Geologists • Hydrogeologists • Engineers

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.:	RIALTO	Project No.:	2013.0100
Well I.D.:	B-14	Sampling Date:	7-21-15
Collected By:	NR	Purge start Time:	/
Casing Diameter (inches):	4	Purge Stop time:	/
Starting Water Level:	444.13	Sampling Time:	0935
Total Depth (feet):	480.00	Ending Water Level (feet):	/
Water column (feet):	35.87	Total Purged (gallons):	/
Screen Length (feet):	—	PID/FID Reading:	
Purge Volume (gallons):	Hydrasleeve	Duplicate Sample:	YES NO
Horiba Model S/N:	U-52/RNG3D5KW		

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
HYDRASLEEVE	—	7.29	0.495	585	7.72	20.56	194

Purge Sampling Rates: COLLECTED SAMPLE. FROM PRESET HYDRASLEEVE

Well condition: OK, PURGE WATER BROWN WITH NO ODOR

Additional Info/Comments: PARTLY CLOUDY, WARM

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.: RIALTO
Well I.D.: B-22
Collected By: NR
Casing Diameter (inches): 3
Starting Water Level: 432.52
Total Depth (feet): 440.00
Water column (feet): 7.48
Screen Length (feet): —
Purge Volume (gallons): HYDRASLEEVE
Horiba Model S/N: U-52/RNGJDSKW

Project No.: 2013.0100
Sampling Date: 7-21-15
Purge start Time: /
Purge Stop time: /
Sampling Time: 0840
Ending Water Level (feet): /
Total Purged (gallons): /
PID/FID Reading: /
Duplicate Sample: YES NO

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Hydrasleeve	—	6.36	0.486	69.8	6.82	20.23	244

Purge Sampling Rates: COLLECTED SAMPLE FROM PRESET HYDRASLEEVE

Well condition: OK, WATER BROWN WITH NO ODOR

Additional Info/Comments: CLOUDY, MILD TEMPERATURE

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.: RIALTO
Well I.D.: B-23s
Collected By: NR
Casing Diameter (inches): 3
Starting Water Level: 445.17
Total Depth (feet): 490.00
Water column (feet): 44.83
Screen Length (feet): —
Purge Volume (gallons): Hydrasleeve
Horiba Model S/N: V-52/RNB5D3KW

Project No.: 2013.0100
Sampling Date: 7-21-15
Purge start Time: /
Purge Stop time: /
Sampling Time: 1045
Ending Water Level (feet): /
Total Purged (gallons): /
PID/FID Reading: /
Duplicate Sample: YES NO

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Hydrasleeve	—	7.87	0.306	356	1.46	20.59	169

Purge Sampling Rates: Collect sample from pre-set Hydrasleeve

Well condition: OK, water is brown/black with slight odor

Additional Info/Comments: Cloudy, warm

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WELL DATA SHEET

Site Name.: RIALTO
Well I.D.: B-23d
Collected By: NR
Casing Diameter (inches): 3
Starting Water Level: 652.78
Total Depth (feet): 665.00
Water column (feet): 12.22
Screen Length (feet): —
Purge Volume (gallons): Hydrasleeve
Horiba Model S/N: U-52/RN6305KW

Project No.: 2013.0100
Sampling Date: 7-21-15
Purge start Time:
Purge Stop time:
Sampling Time: 1130
Ending Water Level (feet):
Total Purged (gallons):
PID/FID Reading:
Duplicate Sample: YES NO

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Hydrasleeve	—	7.71	0.294	613	1.07	22.44	-73

Purge Sampling Rates: Collect sample from preset Hydrasleeve

Well condition: OK, water is black with strong odor

Additional Info/Comments: Cloudy, warm

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WELL DATA SHEET

Site Name:	RIALTO	Project No.:	2013.0100
Well I.D.:	FGA-2	Sampling Date:	7-22-15
Collected By:	NR	Purge start Time:	—
Casing Diameter (inches):	2	Purge Stop time:	—
Starting Water Level:	467.98	Sampling Time:	1035
Total Depth (feet):	503.70	Ending Water Level (feet):	—
Water column (feet):	35.72	Total Purged (gallons):	GRAB
Screen Length (feet):	—	Duplicate Sample:	YES NO
Sample Method:	~~Micro Purge~~ ~~Low Flow~~ GRAB		
Horiba Model S/N:	U-52/RNGJDSKW		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	GRAB	—	8.25	0.548	37.5	6.04	21.15	185

Purge Sampling Rates: COLLECT GRAB SAMPLE FROM WELL USING NEW 1½" DISPOSABLE BAILER AND QUIK-E-BAILER

Well condition: OK,

Additional Info/Comments: SUNNY, WARM

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.:	Rialto	Project No.:	2013-0102
Well I.D.:	FLA-4	Sampling Date:	7.23.15
Collected By:	AS	Purge start Time:	0745
Casing Diameter (inches):	4	Purge Stop time:	0900
Starting Water Level:	422.10	Sampling Time:	0905
Total Depth (feet):	435.80	Ending Water Level (feet):	422.21
Water column (feet):	13.7	Total Purged (gallons):	~28
Screen Length (feet):	–	PID/FID Reading:	N/A
Purge Volume (gallons):	27	Duplicate Sample:	YES NO
Horiba Model S/N:	U52(WGGP8GRS)		

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
5		6.83	0.420	51.5	7.08	20.16	155
10		7.41	0.424	253	9.09	19.45	126
15		7.63	0.438	638	8.89	19.18	123
20		7.73	0.445	429	9.54	19.05	121
25		7.76	0.448	325	9.62	19.10	126
28		7.76	0.449	188	9.72	19.10	136

Purge Sampling Rates: Purged and Sampled using new 3½" disposable bailer w/ Quik-E-Bailer.

Well condition: OK. - Water is cloudy tannish color w/ no odor.

Additional Info/Comments: Cloudy, Humid A.M.

Adam C. Shaw

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013-010
Well I.D.:	M-10	Sampling Date:	7-20-15
Collected By:	MC	Purge start Time:	12:08
Casing Diameter (inches):	4	Purge Stop time:	13:08
Starting Water Level:	465.57	Sampling (Well Recovery) Time:	13:15
Total Depth (feet):	540.00	Ending Water Level (feet):	465.62
Water column (feet):	74.43	Total Purged (gallons):	2.75
Screen Length (feet):		Duplicate Sample:	YES NO

Sample Method: Micro Purge Low Flow

Horiba Model S/N: U-52/ U54LWB00

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
12:32	1.0	465.60	6.64	.342	0.0	3.79	24.28	210
12:42	1.5	465.61	6.82	.342	0.0	3.38	24.31	209
12:47	1.75	465.62	7.07	.342	0.0	3.63	24.32	204
12:53	2.0	"	7.14	.341	0.0	3.69	24.26	202
12:58	2.25	"	7.17	.342	0.0	3.66	24.22	203
13:03	2.50	"	7.19	.343	0.0	3.68	24.19	203
13:08	2.75	"	7.20	.342	0.0	3.66	24.17	202

Purge Sampling Rates: 270 psi refill 55 discharge 20

Well condition: OK

Additional Info/Comments: cloudy, warm to hot, humid, windy

Name: Michael Campbell Signature: Michael Campbell

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.: Rialto
Well I.D.: M-1S
Collected By: MC
Casing Diameter (inches): 3
Starting Water Level: Dry
Total Depth (feet): 455.40
Water column (feet): 0
Screen Length (feet):
Purge Volume (gallons):
Horiba Model S/N:

Project No.: 2013-0100
Sampling Date: 7-20-13
Purge start Time:
Purge Stop time:
Sampling Time:
Ending Water Level (feet):
Total Purged (gallons):
PID/FID Reading:
Duplicate Sample: YES NO

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Dry no sample collected

Purge Sampling Rates: Dry well TD 455.40

Well condition: OK

Additional Info/Comments: Cloudy, hot, humid

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.:	Rialto Perchlorate	Project No.:	2013-0106
Well I.D.:	M-2	Sampling Date:	7-22-15 / 7-23-15
Collected By:	mel (B)	Purge start Time:	13:56 / 7:43
Casing Diameter (inches):	6.25	Purge Stop time:	15:28 / 9:10
Starting Water Level:	NA	Sampling Time:	15:45 / 9:23
Total Depth (feet):		Ending Water Level (feet):	N/A
Water column (feet):		Total Purged (gallons):	N/A
Screen Length (feet):		PID/FID Reading:	
Purge Volume (gallons):		Duplicate Sample:	YES NO
Horiba Model S/N:	U-52 / W541 W Rpe		M-Dup taken at Zone 7

~~GALLONS PURGED~~ Zone	~~WATER LEVEL~~ Time	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
7	14:35	8.60	0.180	5.5	4.83	26.20	132
6	15:15	8.17	0.247	3.5	6.51	24.86	168
5	15:45	8.24	.191	0.0	6.57	23.34	160
	↓	7-23-15	↓	↓	↓	↓	↓
4	8:10	6.67	0.373	0.2	7.13	20.86	257
3	8:50	7.58	.308	0.1	4.95	20.93	234
2	9:23	7.72	0.322	0.6	5.08	20.66	225
1		Dry					

Purge Sampling Rates: Sampled with the Westbay System

Well condition: OK purge field is clear with no odor
Zone 1 was dry No sample collected
* QCAB taken at this well on 7-22-15

Additional Info/Comments: Mostly clear, warm to hot, windy
* M-Dup taken at Zone 7

Schlumberger WATER SERVICES

Groundwater Sampling
Field Data Sheet

7-23-15
Start: 0731
End: 0945

ATM: 13.97
11: 14.02

Project: Rialto Perch
Monitoring Well No.: M-2
Sampling Zone No(s).: 7

Date: 7-22-15
Start Time: 1343 Atm. Reading: 13.92
End Time: 1600 Atm. Reading: 13.93
Operators: BS, MC

*Dup. taken @ zone-7

Port No.	Run No.	Surface Function Tests (probe in flushing collar): Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Bottles (3-5 psi)	Close Valve	Position Sampler: Shoe In-Arm In	Locate Port	Arm Out	Land Probe	Sample Collection Checks (probe located at sampling zone in Westbay casing): Pressure in Westbay ( )	Shoe Out	Zone Pressure ( )	Open Valve	Zone Pressure ( )	Close Valve	Shoe In	Pressure in Westbay ( )	Comments (volume recovered)	ATM End
7	1	✓	✓	✓	✓	✓	✓	✓	675	✓	✓	135.79	✓	123.92	✓	123.93	✓	✓	135.81	-15	13.96
7	2	✓	✓	✓	✓	✓	✓	✓	675	✓	✓	134.80	✓	123.92	✓	123.92	✓	✓	134.80	-15	13.93
6	1	✓	✓	✓	✓	✓	✓	✓	536	✓	✓	118.32	✓	106.55	✓	106.55	✓	✓	118.32	-15	13.95
5	1	✓	✓	✓	✓	✓	✓	✓	581	✓	✓	94.30	✓	82.71	✓	82.71	✓	✓	94.30	-15	13.93
							July	23			2015										
4	1	✓	✓	✓	✓	✓	✓	✓	531	✓	✓	72.62	✓	61.03	✓	61.03	✓	✓	72.65	-15	13.99
3	1	✓	✓	✓	✓	✓	✓	✓	506	✓	✓	61.70	✓	50.32	✓	50.32	✓	✓	61.70	-15	14.02
2	1	✓	✓	✓	✓	✓	✓	✓	452	✓	✓	37.72	✓	26.42	✓	26.43	✓	✓	37.72	-15	14.03
1	1	✓	✓	✓	✓	✓	✓	✓	467	✓	✓	17.09	✓	14.23	✓	14.11	✓	✓	17.09	-15	

Additional Comments: (pH, turbidity, S.C., etc.) zone-1 DS dry.

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.: Rialto Pertlerate
Well I.D.: M-3
Collected By: MC/BJ
Casing Diameter (inches): 3/4 1.25
Starting Water Level: NA
Total Depth (feet):
Water column (feet):
Screen Length (feet):
Purge Volume (gallons):
Horiba Model S/N: 452/2541W BDD

Project No.: 2013-010C
Sampling Date: 7-21-13
Purge start Time: 7:45
Purge Stop time: 11:25
Sampling Time: 11:40
Ending Water Level (feet): static
Total Purged (gallons): NA
PID/FID Reading:
Duplicate Sample: YES NO

~~GALLONS PURGED~~ Zone	~~WATER LEVEL~~ Time	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
7	8:20	6.64	.191	0.6	3.89	22.07	212
6	8:55	7.38	.259	0.3	4.26	21.68	176
5	9:30	8.27	.270	0	4.44	23.19	137
4	10:05	7.99	.316	0	5.50	23.50	164
3	10:40	7.91	.344	0.2	5.66	23.13	177
2	11:10	7.89	.356	0.3	5.31	23.40	185
1	11:40	7.94	.349	0.2	5.22	23.64	176

Purge Sampling Rates: Sampled with the westbay system

Well condition: OK water clear with no odor

Additional Info/Comments: overcast, warm breez

Schlumberger WATER SERVICES

Groundwater Sampling
Field Data Sheet

Project: Rocky Ford
Monitoring Well No.: M-3
Sampling Zone No(s).: 7

Date: 7-21-15
Start Time: 0832 Atm. Reading: 13.80
End Time: 1138 Atm. Reading: 13.96
Operators: PB, MC

Port No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler				Sample Collection Checks (probe located at sampling zone in Westbay casing)								Comments (volume recovered)	ATM Final
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Bottles (3-5 psi)	Close Valve	Shoe In-Arm In	Locate Port	Arm Out	Land Probe	Pressure in Westbay ( )	Shoe Out	Zone Pressure ( )	Open Valve	Zone Pressure ( )	Close Valve	Shoe In	Pressure in Westbay ( )		
7	1	✓	✓	✓	✓	✓	✓	✓	666	✓	✓	97.76	✓	89.37	✓	89.38	✓	✓	97.76	-15	13.96
6	1	✓	✓	✓	✓	✓	✓	✓	630	✓	✓	82.48	✓	74.24	✓	74.26	✓	✓	82.49	-15	13.96
5	1	✓	✓	✓	✓	✓	✓	✓	617	✓	✓	75.93	✓	67.72	✓	67.73	✓	✓	75.94	-15	13.95
4	1	✓	✓	✓	✓	✓	✓	✓	576	✓	✓	58.45	✓	50.43	✓	50.43	✓	✓	58.46	-15	13.96
3	1	✓	✓	✓	✓	✓	✓	✓	555	✓	✓	49.72	✓	41.79	✓	41.80	✓	✓	49.72	-15	13.96
2	1	✓	✓	✓	✓	✓	✓	✓	526	✓	✓	36.60	✓	29.46	✓	29.46	✓	✓	36.60	-15	13.96
1	1	✓	✓	✓	✓	✓	✓	✓	495	✓	✓	23.47	✓	16.54	✓	16.54	✓	✓	23.47	-15	13.96

Additional Comments: (pH, turbidity, S.C., etc.)

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Rialto Perch.	**Project No.:**	2013.1100.12A
Well I.D.:	MW-4 deep (ES)	**Sampling Date:**	7-20-15
Collected By:	BJS	**Purge start Time:**	1207
Casing Diameter (inches):	4	**Purge Stop time:**	1234
Starting Water Level:	442.56	**Sampling (Well Recovery) Time:**	1245
Total Depth (feet):		**Ending Water Level (feet):**	442.57
Water column (feet):		**Total Purged (gallons):**	2
Screen Length (feet):	—	**Duplicate Sample:**	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:	R8754944H		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1215	1/2	442.63	7.58	0.382	1.9	9.51	25.25	106
1218	3/4	442.56	7.59	0.383	2.2	7.69	24.61	109
1221	1	442.58	7.55	0.384	0.9	7.53	23.90	117
1224	1 1/4	"	7.44	0.383	1.1	6.61	23.68	125
1227	1 1/2	"	7.46	0.382	1.3	6.68	23.57	124
1231	1 3/4	"	7.51	0.379	1.6	6.72	23.54	122
1234	2	"	7.55	0.379	1.4	6.76	23.48	122

Purge Sampling Rates: PSI 260 R:45 | D:18.0
water looks clear with no odor
flow @ 360 ml.

Well condition: OK - need to clean out the inside and outside of the well box.

Additional Info/Comments: Cloudy, Hot, Humid

Name: Brent Salinas **Signature:** Brent Salinas

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Rialto Ranch	**Project No.:**	2013.0100
Well I.D.:	M-43	**Sampling Date:**	7-20-15
Collected By:	RJS	**Purge start Time:**	1259
Casing Diameter (inches):	4	**Purge Stop time:**	1325
Starting Water Level:	442.51	**Sampling (Well Recovery) Time:**	1332
Total Depth (feet):		**Ending Water Level (feet):**	442.52
Water column (feet):		**Total Purged (gallons):**	2 1/4
Screen Length (feet):	←	**Duplicate Sample:**	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:	R8JSL4QLIA		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1306	1/2	442.51	7.36	0.379	36.1	8.31	24.70	139
1310	3/4	442.51	7.65	0.393	38.2	7.13	24.54	121
1313	1	"	7.59	0.398	38.7	7.05	24.41	122
1316	1 1/4	"	7.64	0.399	39.1	6.98	24.32	124
1319	1 1/2	"	7.66	0.405	39.0	6.75	24.28	125
1322	2	"	7.66	0.402	39.3	6.77	24.17	125
1325	2 1/4	"	7.65	0.401	39.1	6.68	24.13	125

Purge Sampling Rates: PSI 250, R: 45.0 / D: 19.0
Water looks clear with no color
Flow @ 340 ml.

Well condition: OK

Additional Info/Comments: Cloudy, Hot, Humid.

Name: Bart Salinas **Signature:**

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.: Rialto Perchlorate
Well I.D.: M-5
Collected By: MC/BJ
Casing Diameter (inches): 1.25
Starting Water Level: NA
Total Depth (feet):
Water column (feet):
Screen Length (feet):
Purge Volume (gallons):
Horiba Model S/N: U-52/w541w600

Project No.: 2013-010C
Sampling Date: 7-22-15
Purge start Time: 8:42
Purge Stop time: 13:05
Sampling Time: 13:20
Ending Water Level (feet):
Total Purged (gallons):
PID/FID Reading:
Duplicate Sample: YES NO

~~GALLONS PURGED~~ ZONE	~~WATER LEVEL~~ Time	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
7	9:10	6.76	.286	7.3	6.44	21.72	248
6	9:40	7.42	0.281	0	8.32	21.43	220
5	10:15	7.68	0.288	0.2	7.40	21.69	228
4	10:47	8.04	0.306	0.7	5.81	21.71	179
3	11:16	7.85	0.295	0.4	5.27	22.69	188
2	12:40	8.03	0.306	0.7	5.20	23.38	174
1	13:20	7.88	0.347	0.2	5.23	23.42	195

Purge Sampling Rates: Sampled with a Westbay system

Well condition: OK purge water is clear with no odor
zone 2 landed at 11:27 bottles filled at 12:25

Additional Info/Comments: Hazy sunshine, breezy, warm

Schlumberger WATER SERVICES

Groundwater Sampling
Field Data Sheet

Project: Raloso M-5
Monitoring Well No.: M-5
Sampling Zone No(s).: 7

Date: 7-22-15
Start Time: 0730 Atm. Reading: 13.93
End Time: 1325 Atm. Reading: 13.93
Operators: BS, MC

* T.O.C 1½" / there was approx. 10ft. added to this well *

Port No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler				Sample Collection Checks (probe located at sampling zone in Westbay casing)								Comments (volume recovered)	ATM Encl
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Bottles (3-5 psi)	Close Valve	Shoe In-Arm In	Locate Port	Arm Out	Land Probe	Pressure in Westbay ( )	Shoe Out	Zone Pressure ( )	Open Valve	Zone Pressure ( )	Close Valve	Shoe In	Pressure in Westbay ( )		
7	1	✓	✓	✓	✓	✓	✓	✓	733	✓	✓	178.32	✓	124.97	✓	124.97	✓	✓	178.32	-15	13.93
6	1	✓	✓	✓	✓	✓	✓	✓	687	✓	✓	158.65	✓	105.46	✓	105.49	✓	✓	158.68	-15	13.93
5	1	✓	✓	✓	✓	✓	✓	✓	647	✓	✓	141.16	✓	88.21	✓	88.22	✓	✓	141.16	-15	13.92
4	1	✓	✓	✓	✓	✓	✓	✓	583	✓	✓	112.82	✓	60.04	✓	60.05	✓	✓	112.82	-15	13.93
3	1	✓	✓	✓	✓	✓	✓	✓	538	✓	✓	93.21	✓	40.62	✓	40.62	✓	✓	93.22	-15	13.92
2	1	✓	✓	✓	✓	✓	✓	✓	483	✓	✓	69.18	✓	16.99	✓	16.57	✓	✓	69.19	-15	13.92
1	1	✓	✓	✓	✓	✓	✓	✓	378	✓	✓	23.37	✓	21.22	✓	21.20	✓	✓	23.39	-15	13.93

Additional Comments: (pH, turbidity, S.C., etc.)

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.: Rialto Perchlorate
Well I.D.: M-6
Collected By: MYB
Casing Diameter (inches): 1.25
Starting Water Level: NA
Total Depth (feet):
Water column (feet):
Screen Length (feet):
Purge Volume (gallons):
Horiba Model S/N: U52/U54/U300

Project No.: 2013-0100
Sampling Date: 7-21-15
Purge start Time: 12:16
Purge Stop time: 15:28
Sampling Time: 15:45
Ending Water Level (feet): Standing
Total Purged (gallons): NA
PID/FID Reading: NA
Duplicate Sample: YES NO

GALLONS PURGED	TIME	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
7	12:49		7.87	0.245	0.1	7.12	24.53	171
6	13:20		7.84	0.259	←	7.40	23.97	193
5	13:50		7.89	0.291	1.1	7.88	24.59	200
4	14:17		7.95	0.293	←	6.61	24.17	196
3	14:48		7.91	0.313	←	6.36	24.14	194
2	15:16		7.95	0.305	←	6.33	25.31	192
1	15:45		7.96	0.351	←	5.93	25.09	195

Purge Sampling Rates: Sampled with westbay system

Well condition: OK water clear with no odor
standing water in the well box

Additional Info/Comments: partly cloudy, warm to hot, humid, breezy

Schlumberger WATER SERVICES

Groundwater Sampling
Field Data Sheet

Project: Rio Rancho
Monitoring Well No.: M-6
Sampling Zone No(s).: 7

Date: 7-21-15
Start Time: 1158 Atm. Reading: 13.90
End Time: 1548 Atm. Reading: 13.93
Operators: RJS, MC

Port No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler				Sample Collection Checks (probe located at sampling zone in Westbay casing)								Comments (volume recovered)	ATM END
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Bottles (3-5 psi)	Close Valve	Shoe In-Arm In	Locate Port	Arm Out	Land Probe	Pressure in Westbay ( )	Shoe Out	Zone Pressure ( )	Open Valve	Zone Pressure ( )	Close Valve	Shoe In	Pressure in Westbay ( )		
7	1	✓	✓	✓	✓	✓	✓	✓	731	✓	✓	138.88	✓	123.69	✓	123.71	✓	✓	138.89	-15	13.95
6	1	✓	✓	✓	✓	✓	✓	✓	691	✓	✓	121.43	✓	106.41	✓	106.41	✓	✓	121.42	-15	13.95
5	1	✓	✓	✓	✓	✓	✓	✓	631	✓	✓	95.25	✓	80.46	✓	80.47	✓	✓	95.25	-15	13.94
4	1	✓	✓	✓	✓	✓	✓	✓	591	✓	✓	77.78	✓	63.16	✓	63.15	✓	✓	77.79	-15	13.95
3	1	✓	✓	✓	✓	✓	✓	✓	541	✓	✓	56.03	✓	41.52	✓	41.53	✓	✓	56.02	-15	13.95
2	1	✓	✓	✓	✓	✓	✓	✓	480	✓	✓	29.80	✓	15.47	✓	15.46	✓	✓	29.82	-15	13.95
1	1	✓	✓	✓	✓	✓	✓	✓	390	✓	✓	14.12	✓	17.24	✓	17.24	✓	✓	14.12	-15	13.95

Additional Comments: (pH, turbidity, S.C., etc.)

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.:	Rialto	Project No.:	20B.0100
Well I.D.:	Miro-2	Sampling Date:	7.23.15
Collected By:	AS	Purge start Time:	/
Casing Diameter (inches):	2	Purge Stop time:	/
Starting Water Level:	453.62	Sampling Time:	1200
Total Depth (feet):		Ending Water Level (feet):	/
Water column (feet):		Total Purged (gallons):	/
Screen Length (feet):	—	PID/FID Reading:	N/A
Purge Volume (gallons):	Grab	Duplicate Sample:	YES NO
Horiba Model S/N:	U-52 (JGGKPRGRS)		

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Grab →		8.16	0.258	193	3.27	25.61	11

Purge Sampling Rates: Collected grab sample w/ HydraSleeve. HydraSleeve set @ 550 ft.

Well condition: O.K.

Additional Info/Comments: Mostly Sunny, Warm HydraSleeve: 550 ft.

Adam C. Shaw

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Rialto	**Project No.:**	2013.0100
Well I.D.:	Miro-3	**Sampling Date:**	7.22.15
Collected By:	AS, NR	**Purge start Time:**	/
Casing Diameter (inches):		**Purge Stop time:**	
Starting Water Level:	469.32	**Sampling (Well Recovery) Time:**	0805
Total Depth (feet):		**Ending Water Level (feet):**	/
Water column (feet):		**Total Purged (gallons):**	
Screen Length (feet):		**Duplicate Sample:**	YES NO
Sample Method:	~~Micro Purge~~ Grab ~~Low Flow~~		
Horiba Model S/N:	U-52 (INCLPKERS)		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	Grab	→	6.86	0.383	0.4	8.55	21.43	208

Purge Sampling Rates: Pump is operating - Collected sample from sample port.

Well condition: O.K.

Additional Info/Comments: Cloudy (Partly), warm

Name: Adam C. Shaw **Signature:** A.C. Shaw

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WELL DATA SHEET

Site Name.:	RIALTO	Project No.:	2013.0100
Well I.D.:	N1-2	Sampling Date:	7-21-15
Collected By:	NR	Purge start Time:	/
Casing Diameter (inches):	2	Purge Stop time:	/
Starting Water Level:	494.83	Sampling Time:	1425
Total Depth (feet):	500.50	Ending Water Level (feet):	/
Water column (feet):	5.67	Total Purged (gallons):	/
Screen Length (feet):	—	PID/FID Reading:	/
Purge Volume (gallons):	Grab	Duplicate Sample:	YES NO
Horiba Model S/N:			

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Grab	—	7.68	0.403	52.5	6.91	22.51	204

Purge Sampling Rates: Collected sample with new 1½" disposable bailer using Quik-E-Bailer

Well condition: OK, water clear with no odor

Additional Info/Comments: Sunny, warm

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WELL DATA SHEET

Site Name.:	RIALTO	Project No.:	2013.0100
Well I.D.:	NP-4	Sampling Date:	7-21-15
Collected By:	NR	Purge start Time:	
Casing Diameter (inches):	4	Purge Stop time:	
Starting Water Level:	Dry	Sampling Time:	
Total Depth (feet):	425.20	Ending Water Level (feet):	
Water column (feet):		Total Purged (gallons):	
Screen Length (feet):		PID/FID Reading:	
Purge Volume (gallons):		Duplicate Sample:	YES NO
Horiba Model S/N:			

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Dry
No Sample Collected

Purge Sampling Rates: Dry, NO SAMPLE COLLECTED

Well condition: OK

Additional Info/Comments:

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WELL DATA SHEET

Site Name.:	RIALTO	Project No.:	2013.0100
Well I.D.:	N2-2	Sampling Date:	7-21-15
Collected By:	NR	Purge start Time:	/
Casing Diameter (inches):	2	Purge Stop time:	/
Starting Water Level:	456.88	Sampling Time:	1255
Total Depth (feet):	493.80	Ending Water Level (feet):	/
Water column (feet):	36.92	Total Purged (gallons):	/
Screen Length (feet):	—	PID/FID Reading:	
Purge Volume (gallons):	Grab	Duplicate Sample:	YES NO
Horiba Model S/N:	U-52/RN6J0SKW		

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Grab	—	7.41	0.400	16.2	5.92	23.46	193

Purge Sampling Rates: Collect grab sample using new 1½" disposable bailer and Quik-E-Bailer.

Well condition: OK, water is clear with no odor.

Additional Info/Comments: Cloudy, warm

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WELL DATA SHEET

Site Name:	RIALTO	Project No.:	2013.0100
Well I.D.:	N2-4	Sampling Date:	7-21-15
Collected By:	NR	Purge start Time:	
Casing Diameter (inches):	4	Purge Stop time:	
Starting Water Level:	Dry	Sampling Time:	
Total Depth (feet):	445.90	Ending Water Level (feet):	
Water column (feet):	Ø	Total Purged (gallons):	
Screen Length (feet):		Duplicate Sample:	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Dry No sample collected

Purge Sampling Rates: Dry well, no sample collected

Well condition: OK

Additional Info/Comments: Cloudy, warm

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WELL DATA SHEET

Site Name:	Rancho Ranch.	**Project No.:**	2013.0100KA
Well I.D.:	N3-2	**Sampling Date:**	7-20-15
Collected By:	BJS	**Purge start Time:**	
Casing Diameter (inches):	2	**Purge Stop time:**	
Starting Water Level:	dry	**Sampling (Well Recovery) Time:**	
Total Depth (feet):	534.80	**Ending Water Level (feet):**	
Water column (feet):	0	**Total Purged (gallons):**	
Screen Length (feet):	—	**Duplicate Sample:**	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

DRY

Purge Sampling Rates: Well Dry, No Samples Collected.

Well condition: OK

Additional Info/Comments: Overcast, Humid

Name: B. Salinas **Signature:** [signature]

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WELL DATA SHEET

Site Name:	Rialto Ranch.	Project No.:	2013.0100/2A
Well I.D.:	N3-4	Sampling Date:	7-20-15
Collected By:	RJS	Purge start Time:	0815
Casing Diameter (inches):	4	Purge Stop time:	0840
Starting Water Level:	428.11	Sampling (Well Recovery) Time:	0850
Total Depth (feet):		Ending Water Level (feet):	428.15
Water column (feet):		Total Purged (gallons):	2.5
Screen Length (feet):	—	Duplicate Sample:	(YES) NO
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	R8T54QMH		N-Dup.

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0824	3/4	428.15	6.50	0.503	4.5	6.84	22.11	190
0827	1	428.15	6.90	0.506	16.6	8.61	21.87	164
0830	1 1/4	"	7.03	0.502	7.3	7.88	21.50	170
0833	1 1/2	"	7.22	0.507	7.7	7.94	21.42	166
0836	2	"	7.24	0.504	8.2	7.89	21.38	170
0840	2 1/2	"	7.28	0.506	7.9	7.84	21.46	172

Purge Sampling Rates: PSI 2.70, CPM-1 Setting.
Clear water with no odor.

Well condition: OK

Additional Info/Comments: Overcast, Cool

Name: Ben Salinas

Signature: [signature]

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	N4-2	Sampling Date:	7.22.15
Collected By:	AS	Purge start Time:	
Casing Diameter (inches):	2	Purge Stop time:	
Starting Water Level:	431.59	Sampling (Well Recovery) Time:	
Total Depth (feet):		Ending Water Level (feet):	
Water column (feet):		Total Purged (gallons):	
Screen Length (feet):		Duplicate Sample:	YES / NO
Sample Method:	Micro Purge / Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Bad Pump
Not Sampled

Purge Sampling Rates: Bad pump - No positive pressure. Cannot lift pump.

Well condition: Poor

Additional Info/Comments: Partly Cloudy, Warm

Name: Adam C. Shaw

Signature: A.C.S.

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WELL DATA SHEET

Site Name:	Rialto	**Project No.:**	2013.2100
Well I.D.:	N4-4	**Sampling Date:**	7.22.15
Collected By:	AS	**Purge start Time:**	
Casing Diameter (inches):	4/2	**Purge Stop time:**	
Starting Water Level:	Dry	**Sampling (Well Recovery) Time:**	
Total Depth (feet):	619.45	**Ending Water Level (feet):**	
Water column (feet):	Ø	**Total Purged (gallons):**	
Screen Length (feet):		**Duplicate Sample:**	YES NO
Sample Method:	Micro Purge / Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
			Dry					

Purge Sampling Rates: Dry well - Not Sampled

Well condition: O.K.

Additional Info/Comments: Partly Cloudy, Warm

Name: Adam C. Shaw **Signature:** A.C.S.

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	N-5	Sampling Date:	7.22.15
Collected By:	AS	Purge start Time:	0959
Casing Diameter (inches):	6	Purge Stop time:	1036
Starting Water Level:	431.46	Sampling (Well Recovery) Time:	1040
Total Depth (feet):	472.00	Ending Water Level (feet):	431.48
Water column (feet):	40.54	Total Purged (gallons):	3.0+
Screen Length (feet):	—	Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 (XXGP2GR5)		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1012	1.00	431.48	8.03	0.307	Ø	7.02	21.15	118
1018	1.50	"	7.78	0.377	Ø	7.54	20.88	138
1024	2.00	"	7.77	0.377	Ø	7.46	20.90	139
1027	2.25	"	7.77	0.379	Ø	7.52	20.75	143
1030	2.50	"	7.77	0.376	Ø	7.50	20.76	143
1033	2.75	"	7.77	0.376	Ø	7.49	20.81	145
1036	3.00	"	7.77	0.377	Ø	7.55	20.74	147

Purge Sampling Rates: 250 psi ; Refill (40.0), Discharge (23.0).

Well condition: O.K. - Water is clear w/ no odor.

Additional Info/Comments: Partly Cloudy, Warm

Name: Adam C. Shaw

Signature: A.C.S.

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WELL DATA SHEET

Site Name:	Rialto	**Project No.:**	2013.0100
Well I.D.:	NB-2	**Sampling Date:**	7.20.15
Collected By:	AS	**Purge start Time:**	
Casing Diameter (inches):	2	**Purge Stop time:**	
Starting Water Level:	Dry	**Sampling (Well Recovery) Time:**	
Total Depth (feet):	533.85	**Ending Water Level (feet):**	
Water column (feet):	Ø	**Total Purged (gallons):**	
Screen Length (feet):		**Duplicate Sample:**	YES / NO
Sample Method:	Micro Purge / Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Dry

Purge Sampling Rates: Dry well - Not sampled.

Well condition: O.K.

Additional Info/Comments: Mostly Cloudy, Humid

Name: Adam C. Shaw **Signature:** C.C.S.

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.000
Well I.D.:	N6-4	Sampling Date:	7.20.15
Collected By:	AS	Purge start Time:	/
Casing Diameter (inches):	4	Purge Stop time:	/
Starting Water Level:	421.76	Sampling (Well Recovery) Time:	1040
Total Depth (feet):		Ending Water Level (feet):	/
Water column (feet):		Total Purged (gallons):	/
Screen Length (feet):	—	Duplicate Sample:	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:	U-52 (XXGP2GRS)		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	HydraSleeve →		7.91	0.375	19.8	7.65	22.91	79

Purge Sampling Rates: Collected sample from preset HydraSleeve.

Well condition: O.K. - Water is clear w/ no odor.

Additional Info/Comments: Mostly Cloudy, Humid

Name: Adam C. Shaw

Signature: A.C.S.

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WELL DATA SHEET

Site Name:	Rialto	**Project No.:**	2013.0100
Well I.D.:	N7-2	**Sampling Date:**	7.22.15
Collected By:	AS	**Purge start Time:**	
Casing Diameter (inches):	2	**Purge Stop time:**	
Starting Water Level:	Dry	**Sampling (Well Recovery) Time:**	
Total Depth (feet):	531.50	**Ending Water Level (feet):**	
Water column (feet):	Ø	**Total Purged (gallons):**	
Screen Length (feet):		**Duplicate Sample:**	YES NO
Sample Method:	Micro Purge / Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
			Dry					

Purge Sampling Rates: Dry Well - Not Sampled.

Well condition: O.K.

Additional Info/Comments: Partly Cloudy, Warm

Name: Adam C. Shaw **Signature:** A.C. S

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WELL DATA SHEET

Site Name:	Rialto	**Project No.:**	2013.0100
Well I.D.:	N7-4	**Sampling Date:**	7.22.15
Collected By:	AS	**Purge start Time:**	/
Casing Diameter (inches):	4	**Purge Stop time:**	
Starting Water Level:	382.06	**Sampling (Well Recovery) Time:**	1200
Total Depth (feet):	413.20	**Ending Water Level (feet):**	/
Water column (feet):	31.14	**Total Purged (gallons):**	/
Screen Length (feet):	—	**Duplicate Sample:**	YES NO
Sample Method:	HydraSleeve (Micro Purge / Low Flow)		
Horiba Model S/N:	U-52 / 6CCP8CRS		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	HydraSleeve →		7.96	0.364	10.2	6.89	25.41	97

Purge Sampling Rates: Collected sample from HydraSleeve.

Well condition: O.K.

Additional Info/Comments: Partly Cloudy, Warm

Name: Adam C. Shaw **Signature:** A.C. S

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Rancho Pendi	**Project No.:**	2013.0000/2A
Well I.D.:	N8-2	**Sampling Date:**	7-20-15
Collected By:	BS	**Purge start Time:**	
Casing Diameter (inches):	2	**Purge Stop time:**	
Starting Water Level:	dry	**Sampling (Well Recovery) Time:**	
Total Depth (feet):	521.60	**Ending Water Level (feet):**	
Water column (feet):	—	**Total Purged (gallons):**	
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

DRY

Purge Sampling Rates: Well is dry, No Samples collected

Well condition: OK

Additional Info/Comments: Cloudy skies, humid

Name: Bert Salinas **Signature:** [signature]

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Rialto Recycl.	**Project No.:**	2013.0100/2A
Well I.D.:	N8-4	**Sampling Date:**	7-20-15
Collected By:	BS	**Purge start Time:**	0939
Casing Diameter (inches):	4	**Purge Stop time:**	1002
Starting Water Level:	411.97	**Sampling (Well Recovery) Time:**	1010
Total Depth (feet):		**Ending Water Level (feet):**	412.02
Water column (feet):		**Total Purged (gallons):**	2 1/2
Screen Length (feet):		**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	R8JS4194H		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0945	1/2	412.03	7.38	0.471	42.2	6.75	23.64	141
0948	3/4	412.04	7.44	0.462	71.8	5.58	23.04	131
0951	1	"	7.43	0.476	100	6.27	22.37	129
0955	1 1/2	"	7.20	0.474	101	6.30	22.32	131
0958	2	"	7.38	0.472	102	6.28	22.34	132
1002	2 1/4	"	7.34	0.474	101	6.24	22.38	131

Purge Sampling Rates: PSP 260 CPM-1 Setting
Water looks a bit cloudy with no odor

Well condition: OK
Visible signs of Rain water may have entered well casing.

Additional Info/Comments: Cloudy, Humid

Name: Brent Sollings **Signature:** Brent Sollings

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	N9-2	Sampling Date:	7.22.15
Collected By:	AS	Purge start Time:	
Casing Diameter (inches):	2	Purge Stop time:	
Starting Water Level:	Dry	Sampling (Well Recovery) Time:	
Total Depth (feet):	526.60	Ending Water Level (feet):	
Water column (feet):	Ø	Total Purged (gallons):	
Screen Length (feet):		Duplicate Sample:	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Dry

Purge Sampling Rates: Dry well - Not sampled.

Well condition: O.K.

Additional Info/Comments: Partly Cloudy, Warm

Name: Adam C. Shaw Signature: [signature]

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	N9-4	Sampling Date:	7.22.15
Collected By:	AS	Purge start Time:	
Casing Diameter (inches):	4	Purge Stop time:	
Starting Water Level:	Dry	Sampling (Well Recovery) Time:	
Total Depth (feet):	465.00	Ending Water Level (feet):	
Water column (feet):	Ø	Total Purged (gallons):	
Screen Length (feet):		Duplicate Sample:	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
				Dry				

Purge Sampling Rates: Dry well - Not sampled.

Well condition: D.K.

Additional Info/Comments: Partly Cloudy, Warm

Name: Adam C. Shaw Signature: A.C. Shaw

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.D100
Well I.D.:	NID-2	Sampling Date:	7.20.15
Collected By:	AS	Purge start Time:	/
Casing Diameter (inches):	2	Purge Stop time:	/
Starting Water Level:	405.10	Sampling (Well Recovery) Time:	0836
Total Depth (feet):	430.50	Ending Water Level (feet):	/
Water column (feet):	24.40	Total Purged (gallons):	/
Screen Length (feet):	—	Duplicate Sample:	YES NO
Sample Method:	Micro Purge ~~Low Flow~~ HydraSleeve		
Horiba Model S/N:	U-52 (0GGP9GRS)		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	HydraSleeve →		7.09	0.421	996	7.46	21.68	155

Purge Sampling Rates: Collected sample from preset HydraSleeve.

Well condition: O.K. - Water is very cloudy w/ no odor.

Additional Info/Comments: Cloudy, Humid

Name: Adam C. Shaw

Signature: [signature]

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	MW-4	Sampling Date:	7.21.15
Collected By:	AS	Purge start Time:	0830
Casing Diameter (inches):	4	Purge Stop time:	0928
Starting Water Level:	513.03	Sampling (Well Recovery) Time:	0935
Total Depth (feet):	556.00	Ending Water Level (feet):	513.05
Water column (feet):	42.97	Total Purged (gallons):	3.0+
Screen Length (feet):	—	Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 (WUGP8GRS)		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0848	1.00	513.05	7.68	0.352	3.5	6.12	22.36	124
0858	1.50	"	7.76	0.361	2.8	5.85	22.20	132
0908	2.00	"	7.81	0.365	0.6	5.84	22.19	133
0913	2.25	"	7.83	0.364	0.4	5.41	22.30	134
0918	2.50	"	7.83	0.364	0.3	5.85	22.32	134
0923	2.75	"	7.84	0.363	0.2	5.82	22.34	135
0928	3.00	"	7.84	0.363	0.2	5.83	22.36	135

Purge Sampling Rates: 280 PSI ; Refill (50.0) , Discharge (42.0)

Well condition: O.K. - Water is clear w/ no odor.

Additional Info/Comments: Cloudy, Humid A.M.

Name: Adam C. Shaw

Signature: A.C.S.

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	N11-2	Sampling Date:	7.20.15
Collected By:	AS	Purge start Time:	/
Casing Diameter (inches):	2	Purge Stop time:	/
Starting Water Level:	392.15	Sampling (Well Recovery) Time:	0930
Total Depth (feet):	413.00	Ending Water Level (feet):	/
Water column (feet):	20.85	Total Purged (gallons):	/
Screen Length (feet):	—	Duplicate Sample:	YES NO (circled)
Sample Method:	~~Micro Purge~~ Grab ~~Low Flow~~		
Horiba Model S/N:	U-52 (WGGP2GRS)		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	Grab	→	7.68	0.363	115	8.78	22.46	84

Purge Sampling Rates: Collected grab sample w/ new 1½" disposable bailer.

Well condition: O.K. - Water is usually clear w/ no odor.

Additional Info/Comments: Mostly Cloudy, Humid

Name: Adam C. Shaw Signature: A.C. Shaw

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	N11-4	Sampling Date:	7.20.15
Collected By:	AS	Purge start Time:	
Casing Diameter (inches):	4	Purge Stop time:	
Starting Water Level:	Dry	Sampling (Well Recovery) Time:	
Total Depth (feet):	487.75	Ending Water Level (feet):	
Water column (feet):	Ø	Total Purged (gallons):	
Screen Length (feet):		Duplicate Sample:	YES / NO
Sample Method:	Micro Purge / Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
			Dry					

Purge Sampling Rates: Dry well - Not Sampled -

Well condition: O.K.

Additional Info/Comments: Cloudy, Humid

Name: Adam C. Shaw

Signature: A.C. Shaw

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	N12	Sampling Date:	7.20.15
Collected By:	AS	Purge start Time:	/
Casing Diameter (inches):	5	Purge Stop time:	
Starting Water Level:	403.99	Sampling (Well Recovery) Time:	1200
Total Depth (feet):		Ending Water Level (feet):	/
Water column (feet):		Total Purged (gallons):	/
Screen Length (feet):	—	Duplicate Sample:	YES NO
Sample Method:	Micro Purge Low Flow HydraSleeve		
Horiba Model S/N:	U-52 (WCGP8CRS)		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	HydraSleeve →		7.96	0.403	23.3	7.32	23.44	97

Purge Sampling Rates: Collected sample from preset HydraSleeve.

Well condition: OK. - Water is visually clear w/ no odor.

Additional Info/Comments: Cloudy, Humid, Breezy

Name: Adam C. Shaw

Signature: A.C.S.

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WELL DATA SHEET

Site Name.: Ricklo
Well I.D.: N13-2
Collected By: m
Casing Diameter (inches): 2
Starting Water Level: 380.78
Total Depth (feet): 386.06
Water column (feet): 5.22
Screen Length (feet): –
Purge Volume (gallons): Grab
Horiba Model S/N: U-52/25412B00

Project No.: 2013-0106
Sampling Date: 7-20-15
Purge start Time: |
Purge Stop time: |
Sampling Time: 15:16
Ending Water Level (feet): 380.78
Total Purged (gallons): Grab
PID/FID Reading: |
Duplicate Sample: YES NO

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Grab	–	7.42	.393	96.2	3.96	23.81	165

Purge Sampling Rates: Sampled with a new disposable 1½ bailer with a Quick-Fi Bailer

Well condition: OK water mostly clear with no odor

Additional Info/Comments: Partly cloudy, hot, humid, breeze

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WELL DATA SHEET

Site Name:	Ricke	**Project No.:**	2013-0106
Well I.D.:	N13-4	**Sampling Date:**	7-20-15
Collected By:	MC	**Purge start Time:**	13:40
Casing Diameter (inches):	4	**Purge Stop time:**	14:37
Starting Water Level:	501.56	**Sampling (Well Recovery) Time:**	14:45
Total Depth (feet):	570.00	**Ending Water Level (feet):**	501.58
Water column (feet):	68.44	**Total Purged (gallons):**	2.5
Screen Length (feet):		**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/U52 Y1UBOD		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1400	1.0	501.58	7.28	.329	0.0	4.21	23.25	194
14:20	1.5	"	7.40	.328	0.8	3.74	23.63	196
14:24	1.75	"	7.40	.330	0.9	3.70	23.88	197
14:28	2.0	"	7.41	.330	0.5	3.66	23.61	199
14.33	2.25	"	7.42	.331	0.0	3.58	23.57	206
14:37	2.50	"	7.42	.332	00	3.56	23.50	201

Purge Sampling Rates: 290 psi refill 45 discharge 28

Well condition: OK water is clear with no odor

Additional Info/Comments: partly cloudy, warm, humid, breezy
change cylinders at approx. 1.1 gallons

Name: Michael Campbell **Signature:** Michael Campbell

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WELL DATA SHEET

Site Name.: Rich
Well I.D.: N14-2
Collected By: M
Casing Diameter (inches): 2
Starting Water Level: Dry
Total Depth (feet): 436.70
Water column (feet): 0
Screen Length (feet):
Purge Volume (gallons):
Horiba Model S/N:

Project No.: 2013-010
Sampling Date: 7-20-15
Purge start Time:
Purge Stop time:
Sampling Time:
Ending Water Level (feet):
Total Purged (gallons):
PID/FID Reading:
Duplicate Sample: YES NO

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
		Dry					
					collected		
		no	samples				

Purge Sampling Rates: Well was dry no samples collect.

Well condition: Ok

Additional Info/Comments: cloudy, hot, humid

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WELL DATA SHEET

Site Name:	Richlo	Project No.:	2013-0106
Well I.D.:	N144	Sampling Date:	7-20-15
Collected By:	MC	Purge start Time:	
Casing Diameter (inches):	4	Purge Stop time:	
Starting Water Level:	455.03	Sampling (Well Recovery) Time:	
Total Depth (feet):	550.00	Ending Water Level (feet):	
Water column (feet):	94.97	Total Purged (gallons):	
Screen Length (feet):		Duplicate Sample:	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
			Bad					
			pump					
			NO	samples		collected		

Purge Sampling Rates: ~~220psi refill 40 dockers~~

Well condition: OK ~~pure water~~

Additional Info/Comments: partly cloudy, hot, humid

Name: Michael Campbell Signature: Michael Campbell

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WELL DATA SHEET

Site Name:	Rialto	**Project No.:**	2013-016
Well I.D.:	MIS-4	**Sampling Date:**	7.20.15
Collected By:	MC	**Purge start Time:**	8:29
Casing Diameter (inches):	4	**Purge Stop time:**	9:05
Starting Water Level:	413.67	**Sampling (Well Recovery) Time:**	9:10
Total Depth (feet):		**Ending Water Level (feet):**	413.82
Water column (feet):		**Total Purged (gallons):**	2.75
Screen Length (feet):		**Duplicate Sample:**	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:	U-52 4128 00		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
8:44	1.0	413.82	7.19	.280	0.1	6.74	21.54	179
8:50	1.5	"	7.26	.280	0.0	5.59	21.36	182
8:53	1.75	"	7.27	.280	0.0	4.82	21.31	183
8:56	2.0	"	7.29	.280	0.0	4.52	21.31	184
8:59	2.25	"	7.29	.280	0.0	4.47	21.32	185
9:02	2.50	"	7.30	.280	0.0	4.42	21.29	186
9:05	2.75	"	7.30	.280	0.0	4.39	21.27	187

Purge Sampling Rates: 280 psi refill 40 discharge 28

Well condition: OK purge H2O is clear with no odor

Additional Info/Comments: Partly cloudy, hot, very humid, light to moderate traffic

Name: Michael Campbell **Signature:** Michael Campbell

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	N16-B	Sampling Date:	7.20.15
Collected By:	AS	Purge start Time:	/
Casing Diameter (inches):	3	Purge Stop time:	/
Starting Water Level:	390.25	Sampling (Well Recovery) Time:	1338
Total Depth (feet):	445.00	Ending Water Level (feet):	/
Water column (feet):	54.75	Total Purged (gallons):	/
Screen Length (feet):	—	Duplicate Sample:	YES NO (circled)
Sample Method:	Micro Purge ~~Low Flow~~ Grab		
Horiba Model S/N:	U-52 (W/GP8GRS)		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	Grab	→	8.11	0.383	27.8	7.94	23.18	107

Purge Sampling Rates: Collected grab sample w/ new 1½" disposable bailer.

Well condition: O.K. - Water is visually clear w/ no odor.

Additional Info/Comments: Mostly Cloudy, Humid

Name: Adam C. Shaw

Signature: A. C. Shaw

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	NB-C1	Sampling Date:	7.20.15
Collected By:	AS	Purge start Time:	/
Casing Diameter (inches):	2	Purge Stop time:	/
Starting Water Level:	391.11	Sampling (Well Recovery) Time:	1428
Total Depth (feet):	560.00	Ending Water Level (feet):	/
Water column (feet):	168.89	Total Purged (gallons):	/
Screen Length (feet):	—	Duplicate Sample:	YES NO
Sample Method:	Grab ~~Micro-Purge~~ ~~Low-Flow~~		
Horiba Model S/N:	U-52 WQCP8GRS		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	Grab	→	10.31	0.827	24.3	2.34	23.12	-24

Purge Sampling Rates: Collected grab sample w/ new 1½" disposable bailer.

Well condition: O.K. - Water is visually clear w/ no odor.

Additional Info/Comments: Mostly Cloudy, Humid

Name: Adam C. Shaw

Signature: A.C.S.

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	N16-C2	Sampling Date:	7.20.15
Collected By:	AS	Purge start Time:	/
Casing Diameter (inches):	2	Purge Stop time:	/
Starting Water Level:	391.15	Sampling (Well Recovery) Time:	1520
Total Depth (feet):	599.00	Ending Water Level (feet):	/
Water column (feet):	207.85	Total Purged (gallons):	/
Screen Length (feet):	–	Duplicate Sample:	YES NO
Sample Method:	~~Micro-Purge~~ Grab ~~Low-Flow~~		
Horiba Model S/N:			

* QCAB + QCEB collected here.

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	Grab →		10.72	0.234	9.7	1.80	23.97	-46

Purge Sampling Rates: Collected grab sample w/ new 1½" disposable bailer.

Well condition: O.K. – Water is clear w/ no odor.

Additional Info/Comments: Mostly Cloudy, Humid

* QCAB + QCEB collected here.

Name: Adam C. Shaw Signature: A.C. Sh

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WELL DATA SHEET

Site Name:	Rialto	**Project No.:**	2013-0100
Well I.D.:	N18-B	**Sampling Date:**	7.20.15
Collected By:	MC	**Purge start Time:**	10:27
Casing Diameter (inches):	3	**Purge Stop time:**	11:01
Starting Water Level:	351.57	**Sampling (Well Recovery) Time:**	11:10
Total Depth (feet):	390.00	**Ending Water Level (feet):**	351.59
Water column (feet):	38.43	**Total Purged (gallons):**	2.5
Screen Length (feet):		**Duplicate Sample:**	YES NO C
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:	U-52/W54/W801		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
10:41	1.0	351.59	7.21	.368	20.6	4.40	21.34	168
10:48	1.5	"	7.21	.368	19.9	4.11	21.09	173
10:51	1.75	"	7.20	.370	21.9	4.04	21.03	176
10:55	2.0	"	7.20	.370	23.0	3.94	20.91	179
10:58	2.25	"	7.21	.368	24.9	3.85	20.94	180
11:01	2.50	"	7.21	.368	23.8	3.90	20.92	181

Purge Sampling Rates: 240 psi refill 40 discharge 28

Well condition: OK purge water is clear with no odo-

Additional Info/Comments: Partly cloudy, warm to hot, breezy

Name: Michael Campbell **Signature:** Michael Campbell

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WELL DATA SHEET

Site Name:	Rralle	**Project No.:**	2013-0100
Well I.D.:	N18-C2	**Sampling Date:**	7-20-15
Collected By:	mL	**Purge start Time:**	
Casing Diameter (inches):	3	**Purge Stop time:**	11:22
Starting Water Level:	455.84	**Sampling (Well Recovery) Time:**	
Total Depth (feet):	580.00	**Ending Water Level (feet):**	
Water column (feet):	124.16	**Total Purged (gallons):**	
Screen Length (feet):		**Duplicate Sample:**	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:	U-52 / w541 w BDP		

~~TIME~~	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
	Grab		9.20	.222	8.9	1.14	22.72	3

Purge Sampling Rates: Sampled with a new disposable 1/2 bailer with a Quick E Bailer

Well condition: OK water clear with no odor

Additional Info/Comments: partly cloudy / warm / humid breeze

Name: Michael Campbell **Signature:** Michael Campbell

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WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	N19R-B	Sampling Date:	7.21.15
Collected By:	AS	Purge start Time:	1046
Casing Diameter (inches):	3	Purge Stop time:	1122
Starting Water Level:	421.66	Sampling (Well Recovery) Time:	1130
Total Depth (feet):	458.70	Ending Water Level (feet):	422.00
Water column (feet):	37.04	Total Purged (gallons):	3.0+
Screen Length (feet):	—	Duplicate Sample:	YES NO (NO circled)
Sample Method:	Micro Purge (circled) Low Flow		
Horiba Model S/N:	U-52 (CXGAP8GRS)		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1058	1.00	422.00	7.96	0.349	124	7.50	22.42	118
1104	1.50	"	7.87	0.379	187	7.06	21.92	126
1110	2.00	"	7.82	0.401	143	6.86	21.87	132
1113	2.25	"	7.81	0.402	107	6.82	21.79	134
1116	2.50	"	7.81	0.403	54.6	6.76	21.80	135
1119	2.75	"	7.81	0.403	54.2	6.74	21.78	136
1122	3.00	"	7.82	0.401	53.7	6.72	21.75	136

Purge Sampling Rates: 230 PSI ; Refill (38.0), Discharge (25.0).

Well condition: O.K.

Additional Info/Comments: Partly Cloudy, Warm

Name: Adam C. Shaw

Signature: [signature]

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WELL DATA SHEET

Site Name:	Rialto	**Project No.:**	2013.0100
Well I.D.:	N19R-C1	**Sampling Date:**	7.21.15
Collected By:	AS	**Purge start Time:**	/
Casing Diameter (inches):	2	**Purge Stop time:**	/
Starting Water Level:	604.60	**Sampling (Well Recovery) Time:**	1215
Total Depth (feet):		**Ending Water Level (feet):**	/
Water column (feet):		**Total Purged (gallons):**	/
Screen Length (feet):	—	**Duplicate Sample:**	YES NO
Sample Method:	~~MicroPurge~~ ~~Low Flow~~ HydraSleeve		
Horiba Model S/N:	U-52/WGGP8GRS		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	HydraSleeve →		8.46	0.497	O.R.	4.38	23.21	79

Purge Sampling Rates: Collected sample from preset HydraSleeve

Well condition: OK

Additional Info/Comments: Partly Cloudy, Warm

Name: Adam C. Shaw **Signature:** [signature]

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Rialto	Project No.:	2013.0100
Well I.D.:	NIAR-C2	Sampling Date:	7-21-15
Collected By:	AS	Purge start Time:	/
Casing Diameter (inches):	3	Purge Stop time:	/
Starting Water Level:	603.24	Sampling (Well Recovery) Time:	1310
Total Depth (feet):	686.00	Ending Water Level (feet):	/
Water column (feet):	82.76	Total Purged (gallons):	/
Screen Length (feet):	—	Duplicate Sample:	YES NO
Sample Method:	Grab ~~Micro-Purge~~ ~~Low-Flow~~		
Horiba Model S/N:	U-52 / WGGP8GR5		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
—	Grab	→	8.40	0.365	38.4	6.44	24.13	93

Purge Sampling Rates: Collected grab sample w/ new 1½" disposable bailer.

Well condition: OK

Additional Info/Comments: Partly Cloudy, Hot, Humid

Name: Adam C. Shaw Signature: A.C.S.

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.:	Riolite Perchlorate	Project No.:	2013-006
Well I.D.:	N-20	Sampling Date:	7-23-15
Collected By:	MC/BS	Purge start Time:	10:18
Casing Diameter (inches):	1.25	Purge Stop time:	13:05
Starting Water Level:	NA	Sampling Time:	13:20
Total Depth (feet):		Ending Water Level (feet):	NA
Water column (feet):		Total Purged (gallons):	NA
Screen Length (feet):		PID/FID Reading:	—
Purge Volume (gallons):		Duplicate Sample:	YES NO
Horiba Model S/N:	U-52/w5414B0D		

QCAB taken at this well

GALLONS PURGED Zone	WATER LEVEL Time	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
6	10:38	7.81	0.288	0.7	6.34	21.91	202
5	11:20	7.78	0.289	0.1	5.96	22.61	211
4	11:51	7.81	0.293	"	6.11	22.48	206
3	12:26	7.82	0.297	"	5.20	23.02	192
2			Dry				
1	13:20	7.75	.399	0	4.24	24.75	198

Purge Sampling Rates: Sampled with a Westbay system

Well condition: OK water is clear with no odor

QCAB taken at this well

Additional Info/Comments: Hazy sunshine, warm to hot/ moderate traffic
Zone 2 was dry no samples collected

Schlumberger WATER SERVICES

Groundwater Sampling
Field Data Sheet

Project: Rialto Perch.
Monitoring Well No.: N-20
Sampling Zone No(s).: 6

Date: July 23, 2015
Start Time: 0958 Atm. Reading: 13.92
End Time: 1415 Atm. Reading: 13.93
Operators: BS, MC

Port No.	Run No.	Surface Function Tests (probe in flushing collar)						Position Sampler				Sample Collection Checks (probe located at sampling zone in Westbay casing)								Comments (volume recovered)	~~ATM~~ END
		Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Bottles (3-5 psi)	Close Valve	Shoe In-Arm In	Locate Port	Arm Out	Land Probe	Pressure In Westbay ( )	Shoe Out	Zone Pressure ( )	Open Valve	Zone Pressure ( )	Close Valve	Shoe In	Pressure In Westbay ( )		
6	1	✓	✓	✓	✓	✓	✓	✓	720	717	✓	123.01	✓	95.52	✓	95.52	✓	✓	123.01	-15	13.96
5	1	✓	✓	✓	✓	✓	✓	✓	675	671	✓	103.32	✓	76.10	✓	76.10	✓	✓	103.32	-15	13.96
4	1	✓	✓	✓	✓	✓	✓	✓	629	623	✓	83.65	✓	56.62	✓	56.62	✓	✓	83.65	-15	13.99
3	1	✓	✓	✓	✓	✓	✓	✓	582	580	✓	64.05	✓	37.14	✓	37.13	✓	✓	64.06	-15	13.95
2	1	✓	✓	✓	✓	✓	✓	✓	442	440	✓	14.14	✓	13.86	✓	13.74	✓	✓	14.14	-15 (dry)	13.95
1	1	✓	✓	✓	✓	✓	✓	✓	387	385	✓	14.13	✓	19.22	✓	19.24	✓	✓	14.14	-15	13.93

Additional Comments: (pH, turbidity, S.C., etc.) Zone-2 95 dry.

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.:	Rialto	Project No.:	2013.0100
Well I.D.:	F-32	Sampling Date:	7.21.15
Collected By:	AS	Purge start Time:	1412
Casing Diameter (inches):	4	Purge Stop time:	1520
Starting Water Level:	416.71	Sampling Time:	1536
Total Depth (feet):	419.75	Ending Water Level (feet):	418.23
Water column (feet):	3.04	Total Purged (gallons):	~6
Screen Length (feet):	—	PID/FID Reading:	N/A
Purge Volume (gallons):	5.95	Duplicate Sample:	YES NO
Horiba Model S/N:	U-52 (WCGP8CRS)		

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
2		8.56	0.373	25.1	6.43	21.56	97
4		8.59	0.375	47.3	6.41	22.78	101
6		8.57	0.379	48.0	6.38	21.86	93

Purge Sampling Rates: Purged and Sampled using new 1½" disposable bailer w/ Quik-E-Bailer

Well condition: OK - Water is slightly cloudy w/ no odor.

Additional Info/Comments: Partly Cloudy, Warm, Breezy

Adam C. Shaw

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Rialto Pierce **PROJECT NAME / NUMBER** _____

Instrument Make/Model # R805494H						
Date/Time 7-20-15 0742	**pH**	**Electrical Conductivity (µMhos/cm)**	**Turbidity (NTU)**	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.19	4.49	←	13.28		
Calibration	4.00	4.49	←	8.20		
Calibration Successful? (Y/N)	Yes	→	→	→	enter YES or NO	
Satifies Protocol?	Yes	→	→	→	Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	RG	→	→	→	Signature or initials	
Physical Condition of Unit			Good			

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Riche Perchlorate **PROJECT NAME / NUMBER** 2013-0700

Instrument Make/Model # 4.52 · 25412BDD

Date/Time 7:20 · 17 7:30	pH	Electrical Conductivity (µMhos/cm)	Turbidity (NTU)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	3.99	4.50	0.0	14.46		
Calibration	4.00	4.49	00	8.60		
Calibration Successful? (Y/N)	yes				enter YES or NO	
Satifies Protocol?	yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	—				Signature or initials	[illegible]

Physical Condition of Unit Good

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Rialto **PROJECT NAME / NUMBER** _____

Instrument Make/Model # Horiba U-52 S/N (WGGP8GR5)						
Date/Time 7.20.15 0800	**pH**	**Electrical Conductivity (µMhos/cm)**	**Turbidity (NTU)**	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.09	4.48	Ø	7.85		
Calibration	4.00	4.49	Ø	9.45		
Calibration Successful? (Y/N)	Y				enter YES or NO	
Satifies Protocol?	Y				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	AS				Signature or initials	CC.M
Physical Condition of Unit		Good				

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Rialto **PROJECT NAME / NUMBER** 2013.0100

Instrument Make/Model # Horiba U-52 S/N WCGP2GR5						
Date/Time 7.21.15 0745	**pH**	**Electrical Conductivity (µMhos/cm)**	**Turbidity (NTU)**	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	3.97	4.56	0.8	10.41		
Calibration	4.00	4.49	0.0	8.76		
Calibration Successful? (Y/N)	Y	—	—	—	enter YES or NO	
Satifies Protocol?	Y	—	—	—	Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	AS				Signature or initials	A.C.S.
Physical Condition of Unit	→ Good					

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Rolla Petroleum **PROJECT NAME / NUMBER** 2013-010

Instrument Make/Model # U-52 / 2541WBDD						
Date/Time 7-21-15 7:30	**pH**	**Electrical Conductivity (µMhos/cm)**	**Turbidity (NTU)**	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	3.77	4.48	0.0	6.54		
Calibration	4.01	4.49	0.0	8.60		
Calibration Successful? (Y/N)	yes				enter YES or NO	
Satifies Protocol?	yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	[illegible]				Signature or initials	[illegible]
Physical Condition of Unit			Good			

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) RIALTO **PROJECT NAME / NUMBER** 2013.0100

Instrument Make/Model #	HORIBA U-52 (RNGJ0SKW)					
Date/Time 7-21-15 0820	**pH**	**Electrical Conductivity (µMhos/cm)**	**Turbidity (NTU)**	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.11	4.49	0.0	10.83		
Calibration	4.00	4.49	0.0	9.25		
Calibration Successful? (Y/N)	Y				enter YES or NO	
Satifies Protocol?	Y				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NR				Signature or initials	
Physical Condition of Unit	GOOD					

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Rialto Perchlorate **PROJECT NAME / NUMBER** 2013-0100

Instrument Make/Model # 4.521 w541 w BDD

Date/Time 7-22-19 7:46	pH	Electrical Conductivity (µMhos/cm)	Turbidity (NTU)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	4.14	4.50	00	7.99		
Calibration	4.01	4.49	00	8.11		
Calibration Successful? (Y/N)	yes				enter YES or NO	
Satifies Protocol?	yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	—				Signature or initials	Michael Cull

Physical Condition of Unit Good

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) RIALTO **PROJECT NAME / NUMBER** 2013.0100

Instrument Make/Model #	Horiba U-52 (RNGJDSKW)					
Date/Time 7-22-15 0958	**pH**	**Electrical Conductivity (µMhos/cm)**	**Turbidity (NTU)**	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.00	4.52	0.4	9.84		
Calibration	4.00	4.50	0.0	9.33		
Calibration Successful? (Y/N)	Y				enter YES or NO	
Satifies Protocol?	Y				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NR				Signature or initials	
Physical Condition of Unit	GOOD					

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Rialto/Mid-Valley **PROJECT NAME / NUMBER** 2013.0100

Instrument Make/Model # Horiba U-52

Date/Time 7.22.15 0751	pH	Electrical Conductivity (µMhos/cm)	Turbidity (NTU)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	4.02	4.47	0.0	8.16		
Calibration	4.00	4.49	0.0	8.53		
Calibration Successful? (Y/N)	Y				enter YES or NO	
Satifies Protocol?	Y				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	AS				Signature or initials	C.C.M
Physical Condition of Unit		Good				

Geo-Logic
ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Rialto Pershlwale **PROJECT NAME / NUMBER** 2013-006

Instrument Make/Model # U-52/W541W800						
Date/Time 7-23-15 7:30	**pH**	**Electrical Conductivity (µMhos/cm)**	**Turbidity (NTU)**	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.06	4.46	0.0	9.49		
Calibration	4.00	4.49	0.0	8.59		
Calibration Successful? (Y/N)	yes				enter YES or NO	
Satifies Protocol?	yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	[illegible]				Signature or initials	[illegible]
Physical Condition of Unit		Good				

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Rialto/Mid Valley **PROJECT NAME / NUMBER** 2013.0100

Instrument Make/Model # Horiba U-52 S/N CNGGP8GR5						
Date/Time 7.23.15 0728	**pH**	**Electrical Conductivity (µMhos/cm)**	**Turbidity (NTU)**	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.03	4.46	0.0	8.72		
Calibration	4.00	4.49	0.0	8.98		
Calibration Successful? (Y/N)	Y	—	—	—	enter YES or NO	
Satifies Protocol?	Y	—	—	—	Did calibration meet criteria in the sampling protocol? (**Y** or **N**)	
Calibration by	AS				Signature or initials	[illegible]
Physical Condition of Unit	→ Good					

Date of Report: 08/18/2015

Jason Sapp

Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Client Project:	[none]
BCL Project:	Rialto Perchlorate Investigaton
BCL Work Order:	1517899
Invoice ID:	B210089

Enclosed are the results of analyses for samples received by the laboratory on 7/21/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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BC Laboratories, Inc.

Chain of Custody Form

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Report To:
Client: Geologic Associates
Attn: Jason Sapp
Street Address: 250 W. 1st St. #228
City, State, Zip: Claremont CA 91711
Phone: Fax:
Email Address:
Work Order #: 15-17899

Project #: 2013.0100
Project Name: Rialto Perchlorate
Sampler(s): A. Shaw, M. Campbell, B. Salinas

Analysis Requested: VOCs (524.2 EPA), Perchlorate (EPA 314.0)

Please refer to the back of this page for completion instructions and method legend.

Sample #	Description	Date Sampled	Time Sampled	VOCs (524.2 EPA)	Perchlorate (EPA 314.0)	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-1	M-1D	7/20/15	1315	x	x				X				
-2	M-4S		1332	x	x				X				
-3	M-4D		1245	x	x				X				
-4	N3-4		0850	x	x				X				
-5	N6-4		1040	x	x				X				
-6	N8-4		1010	x	x				X				
-7	N10-2		0836	x	x				X				
-8	N11-2		0930	x	x				X				
-9	N12		1200	x	x				X				
-10	N13-2		1516	x	x				X				
-11	N13-4		1445	x	x				X				
-12	N15-4		0910	x	x				X				
-13	N16-B		1338	x	x				X				
-14	N16-C1		1428	x	x				X				

Comments:
*VOCs (EPA 524.2) testing include 1,2,3-TCP, TAME, TBA, ETBE and 1,1,2-TCTFA.

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

CHK BY: MW
DISTRIBUTION: MASTER ☐ SUB-OUT ☐

Billing
☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)
System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	7/20/14	1700	1. [signature]	7-21-15	12:[illegible]
2. [signature]	7-21-15	1850	2. [signature]	7-21-15	1850
3.			3.		

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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Chain of Custody Form

Page 2 of 2

Report To:
Client: Geologic Associates
Attn: Jason Sopp
Street Address: 250 W First St #228
City, State, Zip: Claremont, Ca 91711
Phone: 909 626-2282 Fax: 909 626-1233
Email Address:
Work Order #: 15-17899

Project #: 2013-0100
Project Name: Rialto Perchlorate
Sampler(s): B. Salinas, A. Show, M. Campbell

Analysis Requested

Comments: Please refer to the back of this page for completion guidelines and method legend.

Sample #	Description	Date Sampled	Time Sampled	VOCs EPA 524.2	1,2,3-TCP, TAME, TBA, ETBE, and 1,4-DCB EPA 524.2	Perchlorate (EPA 314.0)	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-15	N16-C2	7/20/15	15:20	X	X	X				X				
-16	N18-B		11:10	X	X	X				X				
-17	N18-C2		11:22	X	X	X				X				
-18	N-Dup		—	X	X	X				X				
-19	QCAB		—	X	X	X						X		
-20	QCEB		—	X	X	X						X		
-21	QCTB		—	X	X							X		

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Billing ☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)
System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. Michael Campbell	7-20-15	17:00	1. [illegible]	7-21-15	12:15
2. [illegible]	7-21-15	1850	2. [illegible]	7-21-15	1850
3.			3.		

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1517899 Page 3 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 3

Submission #: 15-17899

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/21/15
Temperature: (A) 0.9 °C / (C) 1.0 °C Analyst Init KIB 1910

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz (8oz) 16oz PE UNPRES	D	D	D	D	D	D	D	D	D	D
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:
Sample Numbering Completed By: MM Date/Time: 7/22/15 @0835
A = Actual / C = Corrected

Rev. No. 19 05/06/2015
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Chain of Custody and Cooler Receipt Form for 1517899 Page 4 of 5

BC LABORATORIES INC. — COOLER RECEIPT FORM — Page 2 Of 3

Submission #: 15-17899

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/21/15 1910
Temperature: (A) 0.9 °C / (C) 1.0 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	D	D	D	D	D	D	D	D	C	C
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	AB	AB
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: MM Date/Time: 7/22/15 0835
A = Actual / C = Corrected

Rev. No. 19 05/06/2015
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Chain of Custody and Cooler Receipt Form for 1517899 Page 5 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Page 5 Of 5

Submission #: 15-17899

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received
☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208
Temperature: (A) 0.9 °C / (C) 1.0 °C

Date/Time 7/21/15 1910
Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	AB									
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:
Sample Numbering Completed By: MM Date/Time: 7/22/15 @0835
A = Actual / C = Corrected

Rev. No. 19 05/06/2015
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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1517899-01	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 13:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-1D	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-02	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 13:32
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-4S	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-03	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 12:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-4D	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-04	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 08:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N3-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-05	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N6-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-06	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 10:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N8-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-07	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 08:36
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N10-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:36 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1517899-08	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 09:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N11-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-09	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N12	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-10	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 15:16
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N13-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-11	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 14:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N13-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-12	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 09:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N15-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-13	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 13:38
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N16-B	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-14	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 14:28
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N16-C1	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1517899-15	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 15:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N16-C2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-16	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 11:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N18-B	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-17	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 11:22
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N18-C2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-18	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N-DUP	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517899-19	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCAB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Blank Water
1517899-20	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCEB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Equipment Blank
1517899-21	**COC Number:**	---	**Receive Date:**	07/21/2015 18:50
	Project Number:	---	**Sampling Date:**	07/20/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCTB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Trip Blank

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-01 | **Client Sample Name:** M-1D, 7/20/2015 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.15**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.18**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-01 | **Client Sample Name:** M-1D, 7/20/2015 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**5.9**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-01 | **Client Sample Name:** M-1D, 7/20/2015 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 13:50	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-01 | **Client Sample Name:** M-1D, 7/20/2015 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**10**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 08:36	OLH	IC6	1	BYH0132

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San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-02 | **Client Sample Name:** M-4S, 7/20/2015 1:32:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.38**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-02 | **Client Sample Name:** M-4S, 7/20/2015 1:32:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-02 | **Client Sample Name:** M-4S, 7/20/2015 1:32:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 14:13	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-02 | **Client Sample Name:** M-4S, 7/20/2015 1:32:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**5.3**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/15	08/06/15 12:26	OLH	IC6	1	BYH0572

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San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-03 | **Client Sample Name:** M-4D, 7/20/2015 12:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.20**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-03 | **Client Sample Name:** M-4D, 7/20/2015 12:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.46**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-03 | **Client Sample Name:** M-4D, 7/20/2015 12:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 14:36	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-03 | **Client Sample Name:** M-4D, 7/20/2015 12:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/03/15 23:48	BMW	IC6	1	BYH0132

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Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-04 | **Client Sample Name:** N3-4, 7/20/2015 8:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.70**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.11**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**0.73**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-04 | **Client Sample Name:** N3-4, 7/20/2015 8:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**2.1**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**6.2**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-04 | **Client Sample Name:** N3-4, 7/20/2015 8:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	119	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 14:58	MGC	MS-V5	1	BYG2345

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:36 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-04 | **Client Sample Name:** N3-4, 7/20/2015 8:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**7.3**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/04/15 21:08	BMW	IC6	1	BYH0132

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-05 | **Client Sample Name:** N6-4, 7/20/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-05 | **Client Sample Name:** N6-4, 7/20/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**1.4**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-05 | **Client Sample Name:** N6-4, 7/20/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	106	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 15:21	MGC	MS-V5	1	BYG2345

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:36 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-05 | **Client Sample Name:** N6-4, 7/20/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**9.1**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/04/15 21:51	BMW	IC6	1	BYH0132

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-06 | **Client Sample Name:** N8-4, 7/20/2015 10:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.81**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.14**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**1.7**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-06 | **Client Sample Name:** N8-4, 7/20/2015 10:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.11**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.5**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**12**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-06 | **Client Sample Name:** N8-4, 7/20/2015 10:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	106	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 15:44	MGC	MS-V5	1	BYG2345

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-06 | **Client Sample Name:** N8-4, 7/20/2015 10:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**11**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/04/15 22:20	BMW	IC6	1	BYH0132

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-07 | **Client Sample Name:** N10-2, 7/20/2015 8:36:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.53**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**0.95**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.45**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-07 | **Client Sample Name:** N10-2, 7/20/2015 8:36:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.6**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**9.8**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-07 | **Client Sample Name:** N10-2, 7/20/2015 8:36:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	112	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 19:32	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-07 | **Client Sample Name:** N10-2, 7/20/2015 8:36:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**26**	**ug/L**	**8.0**	**2.6**	**EPA-314.0**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/04/15 23:03	BMW	IC6	2	BYH0132

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-08 | **Client Sample Name:** N11-2, 7/20/2015 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-08 | **Client Sample Name:** N11-2, 7/20/2015 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**1.4**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-08 | **Client Sample Name:** N11-2, 7/20/2015 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 19:55	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-08 | **Client Sample Name:** N11-2, 7/20/2015 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**8.7**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/15	08/05/15 16:29	BMW	IC6	1	BYH0572

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-09 | **Client Sample Name:** N12, 7/20/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.31**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.32**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	**0.26**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.44**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-09 | **Client Sample Name:** N12, 7/20/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.17**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**2.8**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**13**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	**0.18**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-09 | **Client Sample Name:** N12, 7/20/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 20:18	MGC	MS-V5	1	BYG2345

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:36 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-09 | **Client Sample Name:** N12, 7/20/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**8.5**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 00:43	BMW	IC6	1	BYH0132

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-10 | **Client Sample Name:** N13-2, 7/20/2015 3:16:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.22**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.52**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND		1
1,1-Dichloroethane	**1.6**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.18**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**7.2**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-10 | **Client Sample Name:** N13-2, 7/20/2015 3:16:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**7.4**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.99**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	**0.43**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-10 | **Client Sample Name:** N13-2, 7/20/2015 3:16:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 20:41	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-10 | **Client Sample Name:** N13-2, 7/20/2015 3:16:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**8.2**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/15	08/06/15 10:26	OLH	IC6	1	BYH0572

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-11 | **Client Sample Name:** N13-4, 7/20/2015 2:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**1.0**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.36**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**1.4**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	**0.23**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**2.4**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-11 | **Client Sample Name:** N13-4, 7/20/2015 2:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.2**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**27**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-11 | **Client Sample Name:** N13-4, 7/20/2015 2:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	124	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 21:03	MGC	MS-V5	1	BYG2345

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:36 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-11 | **Client Sample Name:** N13-4, 7/20/2015 2:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**140**	**ug/L**	**40**	**13**	**EPA-314.0**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 01:26	BMW	IC6	10	BYH0133

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-12 | **Client Sample Name:** N15-4, 7/20/2015 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-12 | **Client Sample Name:** N15-4, 7/20/2015 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-12 | **Client Sample Name:** N15-4, 7/20/2015 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 21:26	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-12 | **Client Sample Name:** N15-4, 7/20/2015 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 04:04	OLH	IC6	1	BYH0133

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-13 | **Client Sample Name:** N16-B, 7/20/2015 1:38:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**1.2**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND		1
1,1-Dichloroethane	**0.53**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.20**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-13 | **Client Sample Name:** N16-B, 7/20/2015 1:38:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**4.8**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.46**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	**0.89**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-13 | **Client Sample Name:** N16-B, 7/20/2015 1:38:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 21:49	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-13 | **Client Sample Name:** N16-B, 7/20/2015 1:38:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 04:33	OLH	IC6	1	BYH0133

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-14 | **Client Sample Name:** N16-C1, 7/20/2015 2:28:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.41**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.36**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-14 | **Client Sample Name:** N16-C1, 7/20/2015 2:28:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**1.8**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	**15**	**ug/L**	**10**	**4.6**	**EPA-524.2**	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-14 | **Client Sample Name:** N16-C1, 7/20/2015 2:28:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
TIC: 2-Ethyl-1-hexanol	**1.0**	**ug/L**			**EPA-524.2**			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 22:12	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-14 | **Client Sample Name:** N16-C1, 7/20/2015 2:28:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 04:47	OLH	IC6	1	BYH0133

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-15 | **Client Sample Name:** N16-C2, 7/20/2015 3:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.45**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.52**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-15 | **Client Sample Name:** N16-C2, 7/20/2015 3:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**4.7**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	**20**	**ug/L**	**10**	**4.6**	**EPA-524.2**	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	**15**	**ug/L**	**10**	**9.4**	**EPA-524.2**	ND	**V11**	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-15 | **Client Sample Name:** N16-C2, 7/20/2015 3:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	125	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
TIC: 2-Ethyl-1-hexanol	**0.76**	**ug/L**			**EPA-524.2**			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 22:35	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-15 | **Client Sample Name:** N16-C2, 7/20/2015 3:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**1.3**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 09:48	OLH	IC6	1	BYH0133

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-16 | **Client Sample Name:** N18-B, 7/20/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**2.4**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND		1
1,1-Dichloroethane	**1.0**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.21**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-16 | **Client Sample Name:** N18-B, 7/20/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**8.8**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.64**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	**1.5**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-16 | **Client Sample Name:** N18-B, 7/20/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 22:57	MGC	MS-V5	1	BYG2345

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San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-16 | **Client Sample Name:** N18-B, 7/20/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 05:16	OLH	IC6	1	BYH0133

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San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-17 | **Client Sample Name:** N18-C2, 7/20/2015 11:22:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.14**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-17 | **Client Sample Name:** N18-C2, 7/20/2015 11:22:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	**190**	**ug/L**	**10**	**4.6**	**EPA-524.2**	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-17 | **Client Sample Name:** N18-C2, 7/20/2015 11:22:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	**3.7**	**ug/L**	**10**	**3.4**	**EPA-524.2**	ND	**J**	1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	**460**	**ug/L**	**50**	**12**	**EPA-524.2**	ND	**A01**	2
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	**2000**	**ug/L**	**100**	**26**	**EPA-524.2**	ND	**A01**	2
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	123	%	75 - 125 (LCL - UCL)		EPA-524.2			1
1,2-Dichloroethane-d4 (Surrogate)	125	%	75 - 125 (LCL - UCL)		EPA-524.2			2
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			2
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			2
TIC: 2-Butanol	**3.9**	**ug/L**			**EPA-524.2**			1
TIC: 2-Heptanone	**1.6**	**ug/L**			**EPA-524.2**			1
TIC: 2-Nonanone	**2.9**	**ug/L**			**EPA-524.2**			1
TIC: 2-Octanone	**1.9**	**ug/L**			**EPA-524.2**			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 23:20	MGC	MS-V5	1	BYG2345
2	EPA-524.2	07/28/15	07/29/15 11:56	MGC	MS-V5	5	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-17 | **Client Sample Name:** N18-C2, 7/20/2015 11:22:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 06:13	OLH	IC6	1	BYH0133

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-18 | **Client Sample Name:** N-DUP, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.66**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**0.70**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-18 | **Client Sample Name:** N-DUP, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**2.1**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**6.3**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-18 | **Client Sample Name:** N-DUP, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	120	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/28/15 23:43	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-18 | **Client Sample Name:** N-DUP, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**7.3**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 06:42	OLH	IC6	1	BYH0133

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-19 | **Client Sample Name:** QCAB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-19 | **Client Sample Name:** QCAB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-19 | **Client Sample Name:** QCAB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	124	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 00:06	MGC	MS-V5	1	BYG2345

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-19 | **Client Sample Name:** QCAB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/04/15 06:49	OLH	IC6	1	BYH0133

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-20 | **Client Sample Name:** QCEB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-20 | **Client Sample Name:** QCEB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-20 | **Client Sample Name:** QCEB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 00:29	MGC	MS-V5	1	BYG2345

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517899-20 | **Client Sample Name:** QCEB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/04/15 07:03	OLH	IC6	1	BYH0133

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San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-21 | **Client Sample Name:** QCTB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-21 | **Client Sample Name:** QCTB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517899-21 | **Client Sample Name:** QCTB, 7/20/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 00:51	MGC	MS-V5	1	BYG2346

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2345						
Benzene	BYG2345-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BYG2345-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BYG2345-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYG2345-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYG2345-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYG2345-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BYG2345-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BYG2345-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BYG2345-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BYG2345-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYG2345-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYG2345-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYG2345-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYG2345-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BYG2345-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BYG2345-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BYG2345-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BYG2345-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYG2345-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYG2345-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYG2345-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYG2345-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYG2345-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYG2345-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYG2345-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYG2345-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYG2345-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYG2345-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYG2345-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYG2345-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BYG2345-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BYG2345-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BYG2345-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BYG2345-BLK1	ND	ug/L	0.50	0.14	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2345						
trans-1,3-Dichloropropene	BYG2345-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYG2345-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BYG2345-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BYG2345-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BYG2345-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BYG2345-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BYG2345-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BYG2345-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BYG2345-BLK1	ND	ug/L	0.50	0.11	
Styrene	BYG2345-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYG2345-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYG2345-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYG2345-BLK1	ND	ug/L	0.50	0.13	
Toluene	BYG2345-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYG2345-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYG2345-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BYG2345-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BYG2345-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYG2345-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYG2345-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYG2345-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYG2345-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BYG2345-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYG2345-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYG2345-BLK1	ND	ug/L	0.50	0.12	
Acetone	BYG2345-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BYG2345-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BYG2345-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BYG2345-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BYG2345-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BYG2345-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BYG2345-BLK1	ND	ug/L	5.0	1.4	
Diisopropyl ether	BYG2345-BLK1	ND	ug/L	0.50	0.23	
Ethyl methacrylate	BYG2345-BLK1	ND	ug/L	4.0	0.97	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2345						
Ethyl t-butyl ether	BYG2345-BLK1	ND	ug/L	0.50	0.18	
2-Hexanone	BYG2345-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BYG2345-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BYG2345-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BYG2345-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BYG2345-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BYG2345-BLK1	ND	ug/L	5.0	1.5	
Nitrobenzene	BYG2345-BLK1	ND	ug/L	30	13	
Pentachloroethane	BYG2345-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BYG2345-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BYG2345-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BYG2345-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYG2345-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYG2345-BLK1**	**115**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYG2345-BLK1**	**99.6**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYG2345-BLK1**	**96.3**	%	**80 - 120 (LCL - UCL)**		
QC Batch ID: BYG2346						
Benzene	BYG2346-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BYG2346-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYG2346-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYG2346-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYG2346-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BYG2346-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYG2346-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYG2346-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BYG2346-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BYG2346-BLK1	ND	ug/L	0.50	0.15	

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San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2346						
Dibromochloromethane	BYG2346-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BYG2346-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYG2346-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYG2346-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYG2346-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYG2346-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYG2346-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYG2346-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYG2346-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BYG2346-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BYG2346-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BYG2346-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BYG2346-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BYG2346-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BYG2346-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BYG2346-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BYG2346-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BYG2346-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BYG2346-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.11	
Styrene	BYG2346-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYG2346-BLK1	ND	ug/L	0.50	0.13	
Toluene	BYG2346-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.19	

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2346						
1,1,1-Trichloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYG2346-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYG2346-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYG2346-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYG2346-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYG2346-BLK1	ND	ug/L	0.50	0.12	
Acetone	BYG2346-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BYG2346-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BYG2346-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BYG2346-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BYG2346-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BYG2346-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BYG2346-BLK1	ND	ug/L	5.0	1.4	
Diisopropyl ether	BYG2346-BLK1	ND	ug/L	0.50	0.23	
Ethyl methacrylate	BYG2346-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BYG2346-BLK1	ND	ug/L	0.50	0.18	
2-Hexanone	BYG2346-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BYG2346-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BYG2346-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BYG2346-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BYG2346-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BYG2346-BLK1	ND	ug/L	5.0	1.5	
Nitrobenzene	BYG2346-BLK1	ND	ug/L	30	13	
Pentachloroethane	BYG2346-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BYG2346-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BYG2346-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BYG2346-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYG2346-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYG2346-BLK1**	**122**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYG2346-BLK1**	**102**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYG2346-BLK1**	**99.6**	%	**80 - 120 (LCL - UCL)**		

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG2345										
Benzene	BYG2345-BS1	LCS	23.260	25.000	ug/L	93.0		70 - 130		
Bromodichloromethane	BYG2345-BS1	LCS	29.330	25.000	ug/L	117		70 - 130		
Chlorobenzene	BYG2345-BS1	LCS	24.250	25.000	ug/L	97.0		70 - 130		
Chloroethane	BYG2345-BS1	LCS	26.170	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BYG2345-BS1	LCS	22.640	25.000	ug/L	90.6		70 - 130		
1,1-Dichloroethane	BYG2345-BS1	LCS	25.080	25.000	ug/L	100		70 - 130		
1,1-Dichloroethene	BYG2345-BS1	LCS	29.050	25.000	ug/L	116		70 - 130		
Toluene	BYG2345-BS1	LCS	24.700	25.000	ug/L	98.8		70 - 130		
Trichloroethene	BYG2345-BS1	LCS	26.060	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYG2345-BS1	LCS	11.640	10.000	ug/L	116		75 - 125		
Toluene-d8 (Surrogate)	BYG2345-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYG2345-BS1	LCS	10.350	10.000	ug/L	104		80 - 120		
QC Batch ID: BYG2346										
Benzene	BYG2346-BS1	LCS	23.130	25.000	ug/L	92.5		70 - 130		
Bromodichloromethane	BYG2346-BS1	LCS	29.840	25.000	ug/L	119		70 - 130		
Chlorobenzene	BYG2346-BS1	LCS	25.330	25.000	ug/L	101		70 - 130		
Chloroethane	BYG2346-BS1	LCS	26.150	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BYG2346-BS1	LCS	23.120	25.000	ug/L	92.5		70 - 130		
1,1-Dichloroethane	BYG2346-BS1	LCS	25.720	25.000	ug/L	103		70 - 130		
1,1-Dichloroethene	BYG2346-BS1	LCS	29.340	25.000	ug/L	117		70 - 130		
Toluene	BYG2346-BS1	LCS	24.330	25.000	ug/L	97.3		70 - 130		
Trichloroethene	BYG2346-BS1	LCS	27.300	25.000	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYG2346-BS1	LCS	11.560	10.000	ug/L	116		75 - 125		
Toluene-d8 (Surrogate)	BYG2346-BS1	LCS	10.030	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYG2346-BS1	LCS	10.140	10.000	ug/L	101		80 - 120		

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Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2345	Used client sample: Y - Description: M-1D, 07/20/2015 13:15										
Benzene	MS	1517899-01	ND	23.830	25.000	ug/L		95.3		70 - 130	
	MSD	1517899-01	ND	23.360	25.000	ug/L	2.0	93.4	20	70 - 130	
Bromodichloromethane	MS	1517899-01	ND	29.620	25.000	ug/L		118		70 - 130	
	MSD	1517899-01	ND	30.160	25.000	ug/L	1.8	121	20	70 - 130	
Chlorobenzene	MS	1517899-01	ND	25.230	25.000	ug/L		101		70 - 130	
	MSD	1517899-01	ND	25.060	25.000	ug/L	0.7	100	20	70 - 130	
Chloroethane	MS	1517899-01	ND	27.000	25.000	ug/L		108		70 - 130	
	MSD	1517899-01	ND	26.170	25.000	ug/L	3.1	105	20	70 - 130	
1,4-Dichlorobenzene	MS	1517899-01	ND	23.760	25.000	ug/L		95.0		70 - 130	
	MSD	1517899-01	ND	23.560	25.000	ug/L	0.8	94.2	20	70 - 130	
1,1-Dichloroethane	MS	1517899-01	ND	26.180	25.000	ug/L		105		70 - 130	
	MSD	1517899-01	ND	25.460	25.000	ug/L	2.8	102	20	70 - 130	
1,1-Dichloroethene	MS	1517899-01	ND	29.700	25.000	ug/L		119		70 - 130	
	MSD	1517899-01	ND	28.620	25.000	ug/L	3.7	114	20	70 - 130	
Toluene	MS	1517899-01	ND	25.160	25.000	ug/L		101		70 - 130	
	MSD	1517899-01	ND	24.750	25.000	ug/L	1.6	99.0	20	70 - 130	
Trichloroethene	MS	1517899-01	5.9200	30.760	25.000	ug/L		99.4		70 - 130	
	MSD	1517899-01	5.9200	30.810	25.000	ug/L	0.2	99.6	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1517899-01	ND	11.600	10.000	ug/L		116		75 - 125	
	MSD	1517899-01	ND	11.840	10.000	ug/L	2.0	118		75 - 125	
Toluene-d8 (Surrogate)	MS	1517899-01	ND	10.050	10.000	ug/L		100		80 - 120	
	MSD	1517899-01	ND	10.200	10.000	ug/L	1.5	102		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1517899-01	ND	9.6000	10.000	ug/L		96.0		80 - 120	
	MSD	1517899-01	ND	10.570	10.000	ug/L	9.6	106		80 - 120	
QC Batch ID: BYG2346	Used client sample: Y - Description: M3-7, 07/21/2015 08:20										
Benzene	MS	1517963-01	ND	24.260	25.000	ug/L		97.0		70 - 130	
	MSD	1517963-01	ND	23.300	25.000	ug/L	4.0	93.2	20	70 - 130	
Bromodichloromethane	MS	1517963-01	ND	31.390	25.000	ug/L		126		70 - 130	
	MSD	1517963-01	ND	30.110	25.000	ug/L	4.2	120	20	70 - 130	
Chlorobenzene	MS	1517963-01	ND	24.910	25.000	ug/L		99.6		70 - 130	
	MSD	1517963-01	ND	24.150	25.000	ug/L	3.1	96.6	20	70 - 130	
Chloroethane	MS	1517963-01	ND	26.970	25.000	ug/L		108		70 - 130	
	MSD	1517963-01	ND	26.370	25.000	ug/L	2.2	105	20	70 - 130	
1,4-Dichlorobenzene	MS	1517963-01	ND	23.470	25.000	ug/L		93.9		70 - 130	
	MSD	1517963-01	ND	22.500	25.000	ug/L	4.2	90.0	20	70 - 130	
1,1-Dichloroethane	MS	1517963-01	ND	26.230	25.000	ug/L		105		70 - 130	
	MSD	1517963-01	ND	25.580	25.000	ug/L	2.5	102	20	70 - 130	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2346	Used client sample: Y - Description: M3-7, 07/21/2015 08:20										
1,1-Dichloroethene	MS	1517963-01	ND	30.590	25.000	ug/L		122		70 - 130	
	MSD	1517963-01	ND	29.050	25.000	ug/L	5.2	116	20	70 - 130	
Toluene	MS	1517963-01	ND	25.590	25.000	ug/L		102		70 - 130	
	MSD	1517963-01	ND	24.630	25.000	ug/L	3.8	98.5	20	70 - 130	
Trichloroethene	MS	1517963-01	1.4400	27.380	25.000	ug/L		104		70 - 130	
	MSD	1517963-01	1.4400	26.140	25.000	ug/L	4.6	98.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1517963-01	ND	12.160	10.000	ug/L		122		75 - 125	
	MSD	1517963-01	ND	11.960	10.000	ug/L	1.7	120		75 - 125	
Toluene-d8 (Surrogate)	MS	1517963-01	ND	10.200	10.000	ug/L		102		80 - 120	
	MSD	1517963-01	ND	10.280	10.000	ug/L	0.8	103		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1517963-01	ND	9.8600	10.000	ug/L		98.6		80 - 120	
	MSD	1517963-01	ND	9.8000	10.000	ug/L	0.6	98.0		80 - 120	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:36 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0132						
Perchlorate	BYH0132-BLK1	ND	ug/L	4.0	1.3	
QC Batch ID: BYH0133						
Perchlorate	BYH0133-BLK1	ND	ug/L	4.0	1.3	
QC Batch ID: BYH0572						
Perchlorate	BYH0572-BLK1	ND	ug/L	4.0	1.3	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYH0132										
Perchlorate	BYH0132-BS1	LCS	9.5625	10.000	ug/L	95.6		85 - 115		
QC Batch ID: BYH0133										
Perchlorate	BYH0133-BS1	LCS	10.850	10.000	ug/L	109		85 - 115		
QC Batch ID: BYH0572										
Perchlorate	BYH0572-BS1	LCS	11.253	10.000	ug/L	113		85 - 115		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:36
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH0132	Used client sample: Y - Description: M-1D, 07/20/2015 13:15										
Perchlorate	DUP	1517899-01	10.071	10.110		ug/L	0.4		15		
	MS	1517899-01	10.071	19.439	10.101	ug/L		92.7		80 - 120	
	MSD	1517899-01	10.071	20.301	10.101	ug/L	4.3	101	15	80 - 120	
QC Batch ID: BYH0133	Used client sample: Y - Description: N13-4, 07/20/2015 14:45										
Perchlorate	DUP	**1517899-11RE1**	**119.62**	**123.49**		**ug/L**	**3.2**		**15**		
	MS	**1517899-11RE1**	**119.62**	**310.15**	**202.02**	**ug/L**		**94.3**		**80 - 120**	
	MSD	**1517899-11RE1**	**119.62**	**280.54**	**202.02**	**ug/L**	**10.0**	**79.7**	**15**	**80 - 120**	**Q03**
QC Batch ID: BYH0572	Used client sample: N										
Perchlorate	DUP	**1519237-01**	**1.6707**	**1.9965**		**ug/L**	**17.8**		**15**		**J,A02**
	MS	**1519237-01**	**1.6707**	**11.950**	**10.101**	**ug/L**		**102**		**80 - 120**	
	MSD	**1519237-01**	**1.6707**	**12.018**	**10.101**	**ug/L**	**0.6**	**102**	**15**	**80 - 120**	

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Geologic Associates		**Reported:**	08/18/2015 12:36
1831 Commercenter East		Project:	Rialto Perchlorate Investigaton
San Bernardino, CA 92408		Project Number:	[none]
		Project Manager:	Jason Sapp

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.
A02	The difference between duplicate readings is less than the quantitation limit.
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.

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Date of Report: 08/18/2015

Jason Sapp

Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Client Project:	[none]
BCL Project:	Rialto Perchlorate Investigaton
BCL Work Order:	1517963
Invoice ID:	B210215

Enclosed are the results of analyses for samples received by the laboratory on 7/22/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

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BC Laboratories, Inc.

Chain of Custody Form

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Report To:
Client: GeoLogic Associates
Attn: Jason Sapp
Street Address: 250 W. First St #228
City, State, Zip: Claremont, Ca 91711
Phone: 909 626-2282 Fax: 909 626-1233
Email Address:
Work Order #: 15-17963

Project #: 2013-0100
Project Name: Rialto Perchlorate
Sampler(s): ~~A. Bisalina~~ M. Campbell

Analysis Requested: VOC's EPA 524.2; 1,2,3-TCP, ETBE, and 1,4-Dioxane; Perchlorate (EPA 314.0)

Refer to the back of this page for completion instructions and method legend.

Comments:

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Sample #	Description	Date Sampled	Time Sampled	VOC's EPA 524.2	1,2,3-TCP, ETBE, and 1,4-Dioxane	Perchlorate (EPA 314.0)	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-1	M3-7	7/21/15	0820	X	X	X				X				
-2	M3-6		0855	X	X	X				X				
-3	M3-5		0930	X	X	X				X				
-4	M3-4		10:05	X	X	X				X				
-5	M3-3		10:40	X	X	X				X				
-6	M3-2		11:10	X	X	X				X				
-7	M3-1		11:40	X	X	X				X				2 VOCs instead of 3
-8	M6-7		12:49	X	X	X				X				
-9	M6-6		13:30	X	X	X				X				
-10	M6-5		13:50	X	X	X				X				
-11	M6-4		14:17	X	X	X				X				
-12	M6-3		14:48	X	X	X				X				
-13	M6-2		15:16	X	X	X				X				2 VOCs instead of 3
-14	M6-1		15:45	X	X	X				X				

CHK BY DISTRIBUTION
SUB-OUT ☐

Billing ☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)
System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	7/21/15	1700	1. [signature]	7/22/15	11:23
2. [signature]	7/22/15	16:00	2. [signature]	7-22-15	16:00
3.			3.		

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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BC Laboratories, Inc.

Chain of Custody Form

Page 2 of 2

Report To:
Client: Geologic Associates
Attn: Jason Sapp
Street Address: 2506 W. 15th St. #228
City, State, Zip: Claremont CA 91711
Phone: 909 626-2282 Fax: 909 626-1233
Email Address:
Work Order #:

Project #: 2013.0100
Project Name: Rialto Perchlorate
Sampler(s): A. Shaw, N. Reason
15.179663

Analysis Requested: VOCs (EPA 524.2), Perchlorate (EPA 314.0)

Please refer to the back of this page for completion instructions and method legend.

Sample #	Description	Date Sampled	Time Sampled	VOCs (EPA 524.2)	Perchlorate (EPA 314.0)	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-15	F-32	7/21/15	1530	X	X				X				
-16	N1-2		1425	X	X				X				
-17	N2-2		1255	X	X				X				
-18	N10-4		0935	X	X				X				
-19	N19R-B		1130	X	X				X				
-20	N19R-C1		1215	X	X				X				
-21	N19R-C2		1310	X	X				X				
-22	B-23s		1045	X	X				X				
-23	B-23d		1130	X	X				X				
-24	B-14		0935	X	X				X				
-25	B-22		0840	X	X				X				
-26	2CAB		—	X							X		
-27	2CTB		—	X							X		

Comments: *VOCs (524.2) testing includes 1,2,3-TCP, TAME, TBA, ETBE, and 1,1,2-TCTFA.

Sample Matrix: Soil, Sludge, Drinking Water, Ground Water, Waste Water, Other (D.I. H2O)

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Billing: ☒ Same as above
Client:
Address:
City: State: Zip:
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)

System # (Needed for EDT)

	Date	Time		Date	Time
1. Relinquished By	7/21/15	1700	1. Received By	7/22/15	1120
2. Relinquished By	7/22/15	16:00	2. Received By	7-22-15	16:00
3. Relinquished By			3. Received By		

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1517963 Page 3 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 7

Submission #: 15-17963

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7-22-15 15:54

Temperature: (A) 1.0 °C / (C) 1.7 °C Analyst Init

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	D	D	D	D	D	D	DC	D	D	D
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:

Sample Numbering Completed By: Date/Time: 7/22/15 1450 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19]

A = Actual / C = Corrected

Rev. No. 19 05/06/2015

Chain of Custody and Cooler Receipt Form for 1517963 Page 4 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 4

Submission #: 15-17963

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7-22-15 15:54
Temperature: (A) 1.6 °C / (C) 1.7 °C Analyst Init

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	D	D	CD	D						
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC						
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: M Date/Time: 7-22-15 1645 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19]
A = Actual / C = Corrected

Rev. No. 19 05/06/2015

Chain of Custody and Cooler Receipt Form for 1517963 Page 5 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 4

Submission #: 15-17963

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7-22-15 15:54

Temperature: (A) 2.0 °C / (C) 2.4 °C Analyst Init

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	15	16	17	18	19	20	21	22	23	24
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	D	D	D	D	D	D	D	D	D	D
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

omments:

ample Numbering Completed By: Date/Time: 7-22-15 1635 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19)

= Actual / C = Corrected

Rev. No. 19 05/06/2015

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Chain of Custody and Cooler Receipt Form for 1517963 Page 6 of 6

C LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 4

ubmission #: 15-17963

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
ed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☑
C Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

ustody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

l samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7-22-15 15:54

Temperature: (A) 2.0 °C / (C) 2.4 °C Analyst Init

SAMPLE CONTAINERS	SAMPLE NUMBERS 125	126	127	4	5	6	7	8	9	10
PE UNPRES										
z / 8oz / 16oz PE UNPRES	D									
z Cr^{+6}										
INORGANIC CHEMICAL METALS										
ORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
CYANIDE										
NITROGEN FORMS										
TOTAL SULFIDE										
z. NITRATE / NITRITE										
TOTAL ORGANIC CARBON										
CHEMICAL OXYGEN DEMAND										
PHENOLICS										
ml VOA VIAL TRAVEL BLANK			AB							
ml VOA VIAL	AB	AB								
EPA 1664										
ODOR										
DIOLOGICAL										
CTERIOLOGICAL										
ml VOA VIAL- 504										
EPA 508/608/8080										
EPA 515.1/8150										
EPA 525										
EPA 525 TRAVEL BLANK										
nl EPA 547										
nl EPA 531.1										
Amber EPA 548										
EPA 549										
EPA 8015M										
/ 16oz / 32oz AMBER										
/ 16oz / 32oz JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG										
ilar Bag										
RROUS IRON										
CORE										
ART KIT										
na Canister										

Rev. No. 19 05/06/2015

nbering Completed By: AA Date/Time: 7-22-15 1040 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19]

/ C = Corrected

Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1517963-01	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 08:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M3-7	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-02	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 08:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M3-6	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-03	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 09:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M3-5	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-04	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 10:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M3-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-05	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M3-3	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-06	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 11:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M3-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-07	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M3-1	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1517963-08	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 12:49
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M6-7	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-09	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 13:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M6-6	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-10	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 13:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M6-5	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-11	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 14:17
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M6-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-12	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 14:48
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M6-3	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-13	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 15:16
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M6-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-14	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 15:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M6-1	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1517963-15	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 15:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	F-32	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-16	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 14:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N1-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-17	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 12:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N2-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-18	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 09:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N10-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-19	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 11:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N19R-B	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-20	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 12:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N19R-C1	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-21	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 13:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N19R-C2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 13:47 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1517963-22	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 10:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-23s	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-23	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 11:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-23d	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-24	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 09:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-14	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-25	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 08:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-22	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1517963-26	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCAB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1517963-27	**COC Number:**	---	**Receive Date:**	07/22/2015 16:00
	Project Number:	---	**Sampling Date:**	07/21/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCTB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Blank Water

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-01 | **Client Sample Name:** M3-7, 7/21/2015 8:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-01 | **Client Sample Name:** M3-7, 7/21/2015 8:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**1.4**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-01 | **Client Sample Name:** M3-7, 7/21/2015 8:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	106	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 01:37	MGC	MS-V5	1	BYG2346

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Geologic Associates
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San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-01 | **Client Sample Name:** M3-7, 7/21/2015 8:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**3.3**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 16:43	BMW	IC6	1	BYH0569

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-02 | **Client Sample Name:** M3-6, 7/21/2015 8:55:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.53**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**0.52**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.55**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-02 | **Client Sample Name:** M3-6, 7/21/2015 8:55:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.88**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**10**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-02 | **Client Sample Name:** M3-6, 7/21/2015 8:55:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 02:00	MGC	MS-V5	1	BYG2346

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-02 | **Client Sample Name:** M3-6, 7/21/2015 8:55:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**33**	**ug/L**	**8.0**	**2.6**	**EPA-314.0**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 21:01	BMW	IC6	2	BYH0569

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-03 | **Client Sample Name:** M3-5, 7/21/2015 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.83**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.18**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**0.96**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**1.0**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-03 | **Client Sample Name:** M3-5, 7/21/2015 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.6**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**18**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-03 | **Client Sample Name:** M3-5, 7/21/2015 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 02:22	MGC	MS-V5	1	BYG2346

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-03 | **Client Sample Name:** M3-5, 7/21/2015 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**56**	**ug/L**	**40**	**13**	**EPA-314.0**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 21:30	BMW	IC6	10	BYH0569

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-04 | **Client Sample Name:** M3-4, 7/21/2015 10:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**1.0**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.25**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**1.6**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	**0.11**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**1.1**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-04 | **Client Sample Name:** M3-4, 7/21/2015 10:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**2.7**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**26**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-04 | **Client Sample Name:** M3-4, 7/21/2015 10:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 02:45	MGC	MS-V5	1	BYG2346

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-04 | **Client Sample Name:** M3-4, 7/21/2015 10:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**39**	**ug/L**	**20**	**6.5**	**EPA-314.0**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 21:44	BMW	IC6	5	BYH0569

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-05 | **Client Sample Name:** M3-3, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**1.0**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.28**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**1.4**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	**0.11**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**1.3**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-05 | **Client Sample Name:** M3-3, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**2.7**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**27**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-05 | **Client Sample Name:** M3-3, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 03:08	MGC	MS-V5	1	BYG2346

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 13:47 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-05 | **Client Sample Name:** M3-3, 7/21/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**39**	**ug/L**	**20**	**6.5**	**EPA-314.0**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 22:13	BMW	IC6	5	BYH0569

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-06 | **Client Sample Name:** M3-2, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.75**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.24**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**0.32**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND	**J**	1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**1.2**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-06 | **Client Sample Name:** M3-2, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**2.3**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**25**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-06 | **Client Sample Name:** M3-2, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 03:31	MGC	MS-V5	1	BYG2346

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 13:47 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-06 | **Client Sample Name:** M3-2, 7/21/2015 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**39**	**ug/L**	**20**	**6.5**	**EPA-314.0**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 22:41	OLH	IC6	5	BYH0569

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-07 | **Client Sample Name:** M3-1, 7/21/2015 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.66**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.26**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**0.65**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**1.2**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-07 | **Client Sample Name:** M3-1, 7/21/2015 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**2.0**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**17**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-07 | **Client Sample Name:** M3-1, 7/21/2015 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	125	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 03:53	MGC	MS-V5	1	BYG2346

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-07 | **Client Sample Name:** M3-1, 7/21/2015 11:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**33**	**ug/L**	**20**	**6.5**	**EPA-314.0**	ND	**A07**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 23:10	OLH	IC6	5	BYH0569

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-08 | **Client Sample Name:** M6-7, 7/21/2015 12:49:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-08 | **Client Sample Name:** M6-7, 7/21/2015 12:49:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	V11	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-08 | **Client Sample Name:** M6-7, 7/21/2015 12:49:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 04:16	MGC	MS-V5	1	BYG2346

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-08 | **Client Sample Name:** M6-7, 7/21/2015 12:49:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 19:35	BMW	IC6	1	BYH0569

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-09 | **Client Sample Name:** M6-6, 7/21/2015 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-09 | **Client Sample Name:** M6-6, 7/21/2015 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-09 | **Client Sample Name:** M6-6, 7/21/2015 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 12:19	MGC	MS-V5	1	BYG2346

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 13:47 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-09 | **Client Sample Name:** M6-6, 7/21/2015 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/05/15 19:49	BMW	IC6	1	BYH0569

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-10 | **Client Sample Name:** M6-5, 7/21/2015 1:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-10 | **Client Sample Name:** M6-5, 7/21/2015 1:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-10 | **Client Sample Name:** M6-5, 7/21/2015 1:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	125	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 12:42	MGC	MS-V5	1	BYG2346

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-10 | **Client Sample Name:** M6-5, 7/21/2015 1:50:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 00:52	OLH	IC6	1	BYH0569

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-11 | **Client Sample Name:** M6-4, 7/21/2015 2:17:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-11 | **Client Sample Name:** M6-4, 7/21/2015 2:17:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-11 | **Client Sample Name:** M6-4, 7/21/2015 2:17:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	106	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 13:05	MGC	MS-V5	1	BYG2346

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-11 | **Client Sample Name:** M6-4, 7/21/2015 2:17:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**6.2**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/08/15 22:49	OLH	IC6	1	BYH0658

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-12 | **Client Sample Name:** M6-3, 7/21/2015 2:48:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.30**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**0.24**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND	**J**	1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.23**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-12 | **Client Sample Name:** M6-3, 7/21/2015 2:48:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.51**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**6.9**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-12 | **Client Sample Name:** M6-3, 7/21/2015 2:48:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	125	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 13:28	MGC	MS-V5	1	BYG2346

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-12 | **Client Sample Name:** M6-3, 7/21/2015 2:48:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**18**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 02:47	OLH	IC6	1	BYH0570

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-13 | **Client Sample Name:** M6-2, 7/21/2015 3:16:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-13 | **Client Sample Name:** M6-2, 7/21/2015 3:16:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**1.6**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-13 | **Client Sample Name:** M6-2, 7/21/2015 3:16:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 13:50	MGC	MS-V5	1	BYG2346

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-13 | **Client Sample Name:** M6-2, 7/21/2015 3:16:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**18**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 03:02	OLH	IC6	1	BYH0570

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-14 | **Client Sample Name:** M6-1, 7/21/2015 3:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-14 | **Client Sample Name:** M6-1, 7/21/2015 3:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**2.8**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-14 | **Client Sample Name:** M6-1, 7/21/2015 3:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	120	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 14:13	MGC	MS-V5	1	BYG2346

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-14 | **Client Sample Name:** M6-1, 7/21/2015 3:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**5.8**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 03:16	OLH	IC6	1	BYH0570

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-15 | **Client Sample Name:** F-32, 7/21/2015 3:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-15 | **Client Sample Name:** F-32, 7/21/2015 3:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-15 | **Client Sample Name:** F-32, 7/21/2015 3:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 14:36	MGC	MS-V5	1	BYG2346

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-15 | **Client Sample Name:** F-32, 7/21/2015 3:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 03:30	OLH	IC6	1	BYH0570

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-16 | **Client Sample Name:** N1-2, 7/21/2015 2:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-16 | **Client Sample Name:** N1-2, 7/21/2015 2:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**2.6**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-16 | **Client Sample Name:** N1-2, 7/21/2015 2:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 14:59	MGC	MS-V5	1	BYG2346

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-16 | **Client Sample Name:** N1-2, 7/21/2015 2:25:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**6.6**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 03:45	OLH	IC6	1	BYH0570

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-17 | **Client Sample Name:** N2-2, 7/21/2015 12:55:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-17 | **Client Sample Name:** N2-2, 7/21/2015 12:55:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-17 | **Client Sample Name:** N2-2, 7/21/2015 12:55:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 15:22	MGC	MS-V5	1	BYG2346

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-17 | **Client Sample Name:** N2-2, 7/21/2015 12:55:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 03:59	OLH	IC6	1	BYH0570

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-18 | **Client Sample Name:** N10-4, 7/21/2015 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.46**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.16**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-18 | **Client Sample Name:** N10-4, 7/21/2015 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.14**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**2.6**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-18 | **Client Sample Name:** N10-4, 7/21/2015 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 15:44	MGC	MS-V5	1	BYG2346

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San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-18 | **Client Sample Name:** N10-4, 7/21/2015 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**7.0**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 20:05	BMW	IC6	1	BYH0570

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San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-19 | **Client Sample Name:** N19R-B, 7/21/2015 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.34**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.23**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	**0.23**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**0.62**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.60**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-19 | **Client Sample Name:** N19R-B, 7/21/2015 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.12**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**2.0**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**10**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	**0.14**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-19 | **Client Sample Name:** N19R-B, 7/21/2015 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/28/15	07/29/15 16:07	MGC	MS-V5	1	BYG2346

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-19 | **Client Sample Name:** N19R-B, 7/21/2015 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**9.4**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 04:28	OLH	IC6	1	BYH0570

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-20 | **Client Sample Name:** N19R-C1, 7/21/2015 12:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-20 | **Client Sample Name:** N19R-C1, 7/21/2015 12:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-20 | **Client Sample Name:** N19R-C1, 7/21/2015 12:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	125	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/29/15	07/29/15 16:30	MGC	MS-V5	1	BYG2391

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-20 | **Client Sample Name:** N19R-C1, 7/21/2015 12:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 04:42	OLH	IC6	1	BYH0570

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-21 | **Client Sample Name:** N19R-C2, 7/21/2015 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.17**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.15**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.82**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-21 | **Client Sample Name:** N19R-C2, 7/21/2015 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.47**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**2.4**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-21 | **Client Sample Name:** N19R-C2, 7/21/2015 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/29/15	07/29/15 08:08	MGC	MS-V5	1	BYG2391

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-21 | **Client Sample Name:** N19R-C2, 7/21/2015 1:10:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**6.2**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/08/15 23:18	OLH	IC6	1	BYH0658

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-22 | **Client Sample Name:** B-23s, 7/21/2015 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.13**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	**0.14**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-22 | **Client Sample Name:** B-23s, 7/21/2015 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	**0.32**	**ug/L**	**0.50**	**0.098**	**EPA-524.2**	ND	**J**	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.5**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	**0.12**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.18**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-22 | **Client Sample Name:** B-23s, 7/21/2015 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	123	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/29/15	07/29/15 19:33	MGC	MS-V5	1	BYG2391

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-22 | **Client Sample Name:** B-23s, 7/21/2015 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 06:51	OLH	IC6	1	BYH0571

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-23 | **Client Sample Name:** B-23d, 7/21/2015 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-23 | **Client Sample Name:** B-23d, 7/21/2015 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-23 | **Client Sample Name:** B-23d, 7/21/2015 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	125	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/29/15	07/29/15 19:56	MGC	MS-V5	1	BYG2391

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-23 | **Client Sample Name:** B-23d, 7/21/2015 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/15	08/06/15 07:05	OLH	IC6	1	BYH0571

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-24 | **Client Sample Name:** B-14, 7/21/2015 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.14**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.25**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	**0.26**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-24 | **Client Sample Name:** B-14, 7/21/2015 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.20**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**2.5**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**1.1**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	**0.17**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-24 | **Client Sample Name:** B-14, 7/21/2015 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/29/15	07/29/15 20:19	MGC	MS-V5	1	BYG2391

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 13:47 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-24 | **Client Sample Name:** B-14, 7/21/2015 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**1.6**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/15	08/06/15 23:26	BMW	IC6	1	BYH0571

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-25 | **Client Sample Name:** B-22, 7/21/2015 8:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.69**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.14**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-25 | **Client Sample Name:** B-22, 7/21/2015 8:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.13**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.5**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**22**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-25 | **Client Sample Name:** B-22, 7/21/2015 8:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	110	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/29/15	07/29/15 20:41	MGC	MS-V5	1	BYG2391

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1517963-25 | **Client Sample Name:** B-22, 7/21/2015 8:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.0**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/15	08/06/15 23:40	BMW	IC6	1	BYH0571

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-26 | **Client Sample Name:** QCAB, 7/21/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**1.7**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-26 | **Client Sample Name:** QCAB, 7/21/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-26 | **Client Sample Name:** QCAB, 7/21/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	124	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/29/15	07/29/15 21:04	MGC	MS-V5	1	BYG2391

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-27 | **Client Sample Name:** QCTB, 7/21/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-27 | **Client Sample Name:** QCTB, 7/21/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1517963-27 | **Client Sample Name:** QCTB, 7/21/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/29/15	07/29/15 21:27	MGC	MS-V5	1	BYG2391

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2346						
Benzene	BYG2346-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BYG2346-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYG2346-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYG2346-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYG2346-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BYG2346-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYG2346-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYG2346-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BYG2346-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BYG2346-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BYG2346-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BYG2346-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYG2346-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYG2346-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYG2346-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYG2346-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYG2346-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYG2346-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYG2346-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BYG2346-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BYG2346-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BYG2346-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BYG2346-BLK1	ND	ug/L	0.50	0.14	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2346						
trans-1,3-Dichloropropene	BYG2346-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BYG2346-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BYG2346-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BYG2346-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BYG2346-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BYG2346-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.11	
Styrene	BYG2346-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYG2346-BLK1	ND	ug/L	0.50	0.13	
Toluene	BYG2346-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYG2346-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BYG2346-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYG2346-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYG2346-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYG2346-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYG2346-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYG2346-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYG2346-BLK1	ND	ug/L	0.50	0.12	
Acetone	BYG2346-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BYG2346-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BYG2346-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BYG2346-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BYG2346-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BYG2346-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BYG2346-BLK1	ND	ug/L	5.0	1.4	
Diisopropyl ether	BYG2346-BLK1	ND	ug/L	0.50	0.23	
Ethyl methacrylate	BYG2346-BLK1	ND	ug/L	4.0	0.97	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2346						
Ethyl t-butyl ether	BYG2346-BLK1	ND	ug/L	0.50	0.18	
2-Hexanone	BYG2346-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BYG2346-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BYG2346-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BYG2346-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BYG2346-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BYG2346-BLK1	ND	ug/L	5.0	1.5	
Nitrobenzene	BYG2346-BLK1	ND	ug/L	30	13	
Pentachloroethane	BYG2346-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BYG2346-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BYG2346-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BYG2346-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYG2346-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYG2346-BLK1**	**122**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYG2346-BLK1**	**102**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYG2346-BLK1**	**99.6**	%	**80 - 120 (LCL - UCL)**		
QC Batch ID: BYG2391						
Benzene	BYG2391-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BYG2391-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BYG2391-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYG2391-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYG2391-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYG2391-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BYG2391-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BYG2391-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BYG2391-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BYG2391-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYG2391-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYG2391-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYG2391-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYG2391-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BYG2391-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BYG2391-BLK1	ND	ug/L	0.50	0.15	

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2391						
Dibromochloromethane	BYG2391-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BYG2391-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYG2391-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYG2391-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYG2391-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYG2391-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYG2391-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYG2391-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYG2391-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYG2391-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYG2391-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYG2391-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYG2391-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYG2391-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BYG2391-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BYG2391-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BYG2391-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BYG2391-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BYG2391-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYG2391-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BYG2391-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BYG2391-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BYG2391-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BYG2391-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BYG2391-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BYG2391-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BYG2391-BLK1	ND	ug/L	0.50	0.11	
Styrene	BYG2391-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYG2391-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYG2391-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYG2391-BLK1	ND	ug/L	0.50	0.13	
Toluene	BYG2391-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYG2391-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYG2391-BLK1	ND	ug/L	0.50	0.19	

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San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2391						
1,1,1-Trichloroethane	BYG2391-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BYG2391-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYG2391-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYG2391-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYG2391-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYG2391-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BYG2391-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYG2391-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYG2391-BLK1	ND	ug/L	0.50	0.12	
Acetone	BYG2391-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BYG2391-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BYG2391-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BYG2391-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BYG2391-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BYG2391-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BYG2391-BLK1	ND	ug/L	5.0	1.4	
Diisopropyl ether	BYG2391-BLK1	ND	ug/L	0.50	0.23	
Ethyl methacrylate	BYG2391-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BYG2391-BLK1	ND	ug/L	0.50	0.18	
2-Hexanone	BYG2391-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BYG2391-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BYG2391-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BYG2391-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BYG2391-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BYG2391-BLK1	ND	ug/L	5.0	1.5	
Nitrobenzene	BYG2391-BLK1	ND	ug/L	30	13	
Pentachloroethane	BYG2391-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BYG2391-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BYG2391-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BYG2391-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYG2391-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYG2391-BLK1**	**121**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYG2391-BLK1**	**100**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYG2391-BLK1**	**106**	%	**80 - 120 (LCL - UCL)**		

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San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG2346										
Benzene	BYG2346-BS1	LCS	23.130	25.000	ug/L	92.5		70 - 130		
Bromodichloromethane	BYG2346-BS1	LCS	29.840	25.000	ug/L	119		70 - 130		
Chlorobenzene	BYG2346-BS1	LCS	25.330	25.000	ug/L	101		70 - 130		
Chloroethane	BYG2346-BS1	LCS	26.150	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BYG2346-BS1	LCS	23.120	25.000	ug/L	92.5		70 - 130		
1,1-Dichloroethane	BYG2346-BS1	LCS	25.720	25.000	ug/L	103		70 - 130		
1,1-Dichloroethene	BYG2346-BS1	LCS	29.340	25.000	ug/L	117		70 - 130		
Toluene	BYG2346-BS1	LCS	24.330	25.000	ug/L	97.3		70 - 130		
Trichloroethene	BYG2346-BS1	LCS	27.300	25.000	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYG2346-BS1	LCS	11.560	10.000	ug/L	116		75 - 125		
Toluene-d8 (Surrogate)	BYG2346-BS1	LCS	10.030	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYG2346-BS1	LCS	10.140	10.000	ug/L	101		80 - 120		
QC Batch ID: BYG2391										
Benzene	BYG2391-BS1	LCS	23.470	25.000	ug/L	93.9		70 - 130		
Bromodichloromethane	BYG2391-BS1	LCS	28.790	25.000	ug/L	115		70 - 130		
Chlorobenzene	BYG2391-BS1	LCS	23.900	25.000	ug/L	95.6		70 - 130		
Chloroethane	BYG2391-BS1	LCS	26.020	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	BYG2391-BS1	LCS	22.040	25.000	ug/L	88.2		70 - 130		
1,1-Dichloroethane	BYG2391-BS1	LCS	25.730	25.000	ug/L	103		70 - 130		
1,1-Dichloroethene	BYG2391-BS1	LCS	29.220	25.000	ug/L	117		70 - 130		
Toluene	BYG2391-BS1	LCS	23.860	25.000	ug/L	95.4		70 - 130		
Trichloroethene	BYG2391-BS1	LCS	24.230	25.000	ug/L	96.9		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYG2391-BS1	LCS	12.020	10.000	ug/L	120		75 - 125		
Toluene-d8 (Surrogate)	BYG2391-BS1	LCS	9.9000	10.000	ug/L	99.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYG2391-BS1	LCS	9.8100	10.000	ug/L	98.1		80 - 120		

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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2346	Used client sample: Y - Description: M3-7, 07/21/2015 08:20										
Benzene	MS	1517963-01	ND	24.260	25.000	ug/L		97.0		70 - 130	
	MSD	1517963-01	ND	23.300	25.000	ug/L	4.0	93.2	20	70 - 130	
Bromodichloromethane	MS	1517963-01	ND	31.390	25.000	ug/L		126		70 - 130	
	MSD	1517963-01	ND	30.110	25.000	ug/L	4.2	120	20	70 - 130	
Chlorobenzene	MS	1517963-01	ND	24.910	25.000	ug/L		99.6		70 - 130	
	MSD	1517963-01	ND	24.150	25.000	ug/L	3.1	96.6	20	70 - 130	
Chloroethane	MS	1517963-01	ND	26.970	25.000	ug/L		108		70 - 130	
	MSD	1517963-01	ND	26.370	25.000	ug/L	2.2	105	20	70 - 130	
1,4-Dichlorobenzene	MS	1517963-01	ND	23.470	25.000	ug/L		93.9		70 - 130	
	MSD	1517963-01	ND	22.500	25.000	ug/L	4.2	90.0	20	70 - 130	
1,1-Dichloroethane	MS	1517963-01	ND	26.230	25.000	ug/L		105		70 - 130	
	MSD	1517963-01	ND	25.580	25.000	ug/L	2.5	102	20	70 - 130	
1,1-Dichloroethene	MS	1517963-01	ND	30.590	25.000	ug/L		122		70 - 130	
	MSD	1517963-01	ND	29.050	25.000	ug/L	5.2	116	20	70 - 130	
Toluene	MS	1517963-01	ND	25.590	25.000	ug/L		102		70 - 130	
	MSD	1517963-01	ND	24.630	25.000	ug/L	3.8	98.5	20	70 - 130	
Trichloroethene	MS	1517963-01	1.4400	27.380	25.000	ug/L		104		70 - 130	
	MSD	1517963-01	1.4400	26.140	25.000	ug/L	4.6	98.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1517963-01	ND	12.160	10.000	ug/L		122		75 - 125	
	MSD	1517963-01	ND	11.960	10.000	ug/L	1.7	120		75 - 125	
Toluene-d8 (Surrogate)	MS	1517963-01	ND	10.200	10.000	ug/L		102		80 - 120	
	MSD	1517963-01	ND	10.280	10.000	ug/L	0.8	103		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1517963-01	ND	9.8600	10.000	ug/L		98.6		80 - 120	
	MSD	1517963-01	ND	9.8000	10.000	ug/L	0.6	98.0		80 - 120	
QC Batch ID: BYG2391	Used client sample: Y - Description: N19R-C2, 07/21/2015 13:10										
Benzene	MS	1517963-21	ND	22.840	25.000	ug/L		91.4		70 - 130	
	MSD	1517963-21	ND	22.820	25.000	ug/L	0.1	91.3	20	70 - 130	
Bromodichloromethane	MS	1517963-21	ND	28.250	25.000	ug/L		113		70 - 130	
	MSD	1517963-21	ND	28.590	25.000	ug/L	1.2	114	20	70 - 130	
Chlorobenzene	MS	1517963-21	ND	22.620	25.000	ug/L		90.5		70 - 130	
	MSD	1517963-21	ND	24.910	25.000	ug/L	9.6	99.6	20	70 - 130	
Chloroethane	MS	1517963-21	ND	25.330	25.000	ug/L		101		70 - 130	
	MSD	1517963-21	ND	25.550	25.000	ug/L	0.9	102	20	70 - 130	
1,4-Dichlorobenzene	MS	1517963-21	ND	21.780	25.000	ug/L		87.1		70 - 130	
	MSD	1517963-21	ND	23.100	25.000	ug/L	5.9	92.4	20	70 - 130	
1,1-Dichloroethane	MS	1517963-21	0.15000	24.590	25.000	ug/L		97.8		70 - 130	
	MSD	1517963-21	0.15000	25.870	25.000	ug/L	5.1	103	20	70 - 130	

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1831 Commercenter East
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Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2391	Used client sample: Y - Description: N19R-C2, 07/21/2015 13:10										
1,1-Dichloroethene	MS	1517963-21	ND	27.540	25.000	ug/L		110		70 - 130	
	MSD	1517963-21	ND	28.560	25.000	ug/L	3.6	114	20	70 - 130	
Toluene	MS	1517963-21	ND	23.160	25.000	ug/L		92.6		70 - 130	
	MSD	1517963-21	ND	24.030	25.000	ug/L	3.7	96.1	20	70 - 130	
Trichloroethene	MS	1517963-21	2.3500	25.950	25.000	ug/L		94.4		70 - 130	
	MSD	1517963-21	2.3500	26.300	25.000	ug/L	1.3	95.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1517963-21	ND	12.330	10.000	ug/L		123		75 - 125	
	MSD	1517963-21	ND	11.480	10.000	ug/L	7.1	115		75 - 125	
Toluene-d8 (Surrogate)	MS	1517963-21	ND	10.050	10.000	ug/L		100		80 - 120	
	MSD	1517963-21	ND	10.240	10.000	ug/L	1.9	102		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1517963-21	ND	9.8800	10.000	ug/L		98.8		80 - 120	
	MSD	1517963-21	ND	10.260	10.000	ug/L	3.8	103		80 - 120	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 13:47 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0569						
Perchlorate	BYH0569-BLK1	ND	ug/L	4.0	1.3	
QC Batch ID: BYH0570						
Perchlorate	BYH0570-BLK1	ND	ug/L	4.0	1.3	
QC Batch ID: BYH0571						
Perchlorate	BYH0571-BLK1	ND	ug/L	4.0	1.3	
QC Batch ID: BYH0658						
Perchlorate	BYH0658-BLK1	ND	ug/L	4.0	1.3	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYH0569										
Perchlorate	BYH0569-BS1	LCS	9.6019	10.000	ug/L	96.0		85 - 115		
QC Batch ID: BYH0570										
Perchlorate	BYH0570-BS1	LCS	9.1550	10.000	ug/L	91.6		85 - 115		
QC Batch ID: BYH0571										
Perchlorate	BYH0571-BS1	LCS	10.593	10.000	ug/L	106		85 - 115		
QC Batch ID: BYH0658										
Perchlorate	BYH0658-BS1	LCS	10.524	10.000	ug/L	105		85 - 115		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 13:47
Project: Rialto Perchlorate Investigaton
Project Number: [none]
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH0569	Used client sample: Y - Description: M3-7, 07/21/2015 08:20										
Perchlorate	DUP	1517963-01	3.2735	3.1669		ug/L	3.3		15		J
	MS	1517963-01	3.2735	12.285	10.101	ug/L		89.2		80 - 120	
	MSD	1517963-01	3.2735	12.147	10.101	ug/L	1.1	87.8	15	80 - 120	
QC Batch ID: BYH0570	Used client sample: Y - Description: M6-4, 07/21/2015 14:17										
Perchlorate	DUP	**1517963-11**	**3.8106**	**4.7706**		**ug/L**	**22.4**		**15**		**A02**
	MS	**1517963-11**	**3.8106**	**15.517**	**10.101**	**ug/L**		**116**		**80 - 120**	
	MSD	**1517963-11**	**3.8106**	**15.149**	**10.101**	**ug/L**	**2.4**	**112**	**15**	**80 - 120**	
QC Batch ID: BYH0571	Used client sample: Y - Description: N19R-C2, 07/21/2015 13:10										
Perchlorate	DUP	1517963-21	4.5083	4.6542		ug/L	3.2		15		
	MS	1517963-21	4.5083	16.037	10.101	ug/L		114		80 - 120	
	MSD	1517963-21	4.5083	14.429	10.101	ug/L	10.6	98.2	15	80 - 120	
QC Batch ID: BYH0658	Used client sample: N										
Perchlorate	DUP	1518122-11	ND	ND		ug/L			15		
	MS	1518122-11	ND	10.260	10.101	ug/L		102		80 - 120	
	MSD	1518122-11	ND	10.503	10.101	ug/L	2.3	104	15	80 - 120	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 13:47 Project: Rialto Perchlorate Investigaton Project Number: [none] Project Manager: Jason Sapp

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A02	The difference between duplicate readings is less than the quantitation limit.
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.

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Date of Report: 08/10/2015

Jason Sapp

Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Client Project:	2013-0010
BCL Project:	Rialto Perchlorate Investigaton
BCL Work Order:	1518122
Invoice ID:	B210234

Enclosed are the results of analyses for samples received by the laboratory on 7/23/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

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Quality Control Reports

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BC Laboratories, Inc.

Chain of Custody Form

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Report To:
Client: Geologic Associates
Attn: Jason Sopp
Street Address: 250 W. First St Ste 228
City, State, Zip: Claremont, Ca 91711
Phone: 626-2282 (909) Fax: 626-1233 (909)
Email Address:
Work Order #: 15.18122

Project #: 2013-0100
Project Name: Rialto Perchlorate
Sampler(s): B. Salinas, M. Campbell

Refer to the back of this page for completion instructions and method legend.

Analysis Requested

Comments:

Sample #	Description	Date Sampled	Time Sampled	VOCs EPA 524.2	1,2,3-TCP, TAME, ETBE and 1,2,3 TCTFB	Perchlorate (EPA 314.0)	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-1	MS-7	7/22/15	0910	X	X	X				X				
-2	MS-6		0940	X	X	X				X				
-3	MS-5		10:15	X	X	X				X				
-4	MS-4		10:47	X	X	X				X				
-5	MS-3		11:16	X	X	X				X				
-6	MS-2		12:40	X	X	X				X				
-7	MS-1		13:20	X	X	X				X				
-8	M2-7		14:35	X	X	X				X				
-9	M2-6		15:15	X	X	X				X				
-10	M2-5		1545	X	X	X				X				
-11	M-Dup		—	X	X	X				X				
-12	QCAB		—	X	X							X		
-13	QCTB		—	X	X							X		

Lab Dit Hel

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

CHK BY DISTRIBUTION
SUB-OUT

Billing ☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)
System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	7-22-15	1700	1. [signature]	7-23-15	1150
2. [signature]	7-23-15	1600	2. [signature]	7/23/15	1600
3.			3.		

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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BC Laboratories, Inc.

Chain of Custody Form

Page 2 of 2

Report To:
Client: Geologic Associates
Attn: Jason Sapp
Street Address: 250 W. 1st St. #228
City, State, Zip: Claremont CA 91711
Phone: 626-2282 Fax: 626-1233
Email Address:
Work Order #: 15-18122

Project #: 2013.0100
Project Name: Richto Perchlorate
Sampler(s): A. Shaw

Analysis Requested: VOCs EPA 524.2 *; Perchlorate EPA 314.0

Please refer to the back of this page for completion instructions and method legend.

Sample #	Description	Date Sampled	Time Sampled	VOCs EPA 524.2 *	Perchlorate EPA 314.0	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
~~-13~~ -14	Nitro-3	7-22-15	0805	x	x				X				
~~-14~~ -15	N-5		1040	x	x				X				
~~-3/7~~ -16	N7-4		1200	x	x				X				
~~-4/8~~ -17	F-6A2		1035	x	x				X				
~~-5/9~~													

Comments:
* VOCs (EPA 524.2) includes 1,2,3-TCP, TAME, TBA, ETBE, and 1,1,2-TCTFA.

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☒ No

* Standard Turnaround = 10 work days

Billing ☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)
System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	7/22/15	1700	1. [signature]	7-23-15	1150
2. [signature]	7-23-15	1600	2. [signature]	7/23/15	1600
3.			3.		

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1518122 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 15-18122

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☑ Other ☐ (Specify)_____	Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/23/15

Temperature: (A) 1.0 °C / (C) 1.1 °C Analyst Init NS 1600

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	D	D	D	D	D	C	D C	D	D	D
2oz Cr+6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

omments:_____

ample Numbering Completed By: NA Date/Time: 7-23-15 2000

Rev. No. 19 05/06/2015 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19)

Chain of Custody and Cooler Receipt Form for 1518122 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 15-18122

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☑ Other ☐ (Specify)_____	Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: QT-PE Thermometer ID: 208 Date/Time 7/23/15

Temperature: (A) 0.9 °C / (C) 1.0 °C Analyst Init NSC 1600

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	V	V	V				O			
2oz Cr+6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC				ABC			
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

omments:_____

ample Numbering Completed By: M Date/Time: 7/23/15 1930 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 19]

Rev. No. 19 05/06/2015

Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1518122-01	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 09:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M5-7	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-02	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 09:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M5-6	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-03	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 10:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M5-5	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-04	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 10:47
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M5-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-05	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 11:16
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M5-3	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-06	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M5-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-07	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 13:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M5-1	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1518122-08	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 14:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M2-7	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-09	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 15:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M2-6	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-10	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 15:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M2-5	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-11	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M2-Dup	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-12	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCAB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1518122-13	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCTB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Blank Water
1518122-14	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 08:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Miro-3	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1518122-15	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N-5	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-16	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N7-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518122-17	**COC Number:**	---	**Receive Date:**	07/23/2015 16:00
	Project Number:	---	**Sampling Date:**	07/22/2015 10:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	F-6A2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-01 | **Client Sample Name:** M5-7, 7/22/2015 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-01 | **Client Sample Name:** M5-7, 7/22/2015 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-01 | **Client Sample Name:** M5-7, 7/22/2015 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/31/15	08/01/15 15:35	MGC	MS-V5	1	BYG2654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-01 | **Client Sample Name:** M5-7, 7/22/2015 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/07/15	08/08/15 04:49	OLH	IC6	1	BYH0654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-02 | **Client Sample Name:** M5-6, 7/22/2015 9:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-02 | **Client Sample Name:** M5-6, 7/22/2015 9:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-02 | **Client Sample Name:** M5-6, 7/22/2015 9:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/31/15	08/01/15 15:58	MGC	MS-V5	1	BYG2654

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-02 | **Client Sample Name:** M5-6, 7/22/2015 9:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/07/15	08/08/15 05:47	OLH	IC6	1	BYH0654

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-03 | **Client Sample Name:** M5-5, 7/22/2015 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-03 | **Client Sample Name:** M5-5, 7/22/2015 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-03 | **Client Sample Name:** M5-5, 7/22/2015 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/31/15	08/01/15 16:21	MGC	MS-V5	1	BYG2654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-03 | **Client Sample Name:** M5-5, 7/22/2015 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/07/15	08/08/15 06:44	OLH	IC6	1	BYH0654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-04 | **Client Sample Name:** M5-4, 7/22/2015 10:47:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-04 | **Client Sample Name:** M5-4, 7/22/2015 10:47:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-04 | **Client Sample Name:** M5-4, 7/22/2015 10:47:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	106	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/31/15	08/02/15 13:46	MGC	MS-V5	1	BYG2654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-04 | **Client Sample Name:** M5-4, 7/22/2015 10:47:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**3.1**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/07/15	08/08/15 07:13	OLH	IC6	1	BYH0654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-05 | **Client Sample Name:** M5-3, 7/22/2015 11:16:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-05 | **Client Sample Name:** M5-3, 7/22/2015 11:16:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-05 | **Client Sample Name:** M5-3, 7/22/2015 11:16:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/31/15	08/02/15 14:09	MGC	MS-V5	1	BYG2654

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-05 | **Client Sample Name:** M5-3, 7/22/2015 11:16:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**1.4**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/07/15	08/08/15 07:41	OLH	IC6	1	BYH0654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-06 | **Client Sample Name:** M5-2, 7/22/2015 12:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.16**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.20**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-06 | **Client Sample Name:** M5-2, 7/22/2015 12:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.51**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.57**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-06 | **Client Sample Name:** M5-2, 7/22/2015 12:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/31/15	08/02/15 14:32	MGC	MS-V5	1	BYG2654

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-06 | **Client Sample Name:** M5-2, 7/22/2015 12:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**1.4**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/07/15	08/08/15 08:10	OLH	IC6	1	BYH0654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-07 | **Client Sample Name:** M5-1, 7/22/2015 1:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.19**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.42**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	**0.98**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**1.8**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-07 | **Client Sample Name:** M5-1, 7/22/2015 1:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**5.0**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.53**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	**0.39**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-07 | **Client Sample Name:** M5-1, 7/22/2015 1:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/31/15	08/02/15 14:55	MGC	MS-V5	1	BYG2654

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-07 | **Client Sample Name:** M5-1, 7/22/2015 1:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/07/15	08/08/15 08:39	OLH	IC6	1	BYH0654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-08 | **Client Sample Name:** M2-7, 7/22/2015 2:35:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-08 | **Client Sample Name:** M2-7, 7/22/2015 2:35:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.71**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-08 | **Client Sample Name:** M2-7, 7/22/2015 2:35:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/31/15	08/02/15 15:17	MGC	MS-V5	1	BYG2654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-08 | **Client Sample Name:** M2-7, 7/22/2015 2:35:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/07/15	08/08/15 10:34	OLH	IC6	1	BYH0654

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-09 | **Client Sample Name:** M2-6, 7/22/2015 3:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.13**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-09 | **Client Sample Name:** M2-6, 7/22/2015 3:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.17**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-09 | **Client Sample Name:** M2-6, 7/22/2015 3:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/31/15	08/02/15 15:40	MGC	MS-V5	1	BYG2654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-09 | **Client Sample Name:** M2-6, 7/22/2015 3:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/07/15	08/08/15 11:02	OLH	IC6	1	BYH0654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-10 | **Client Sample Name:** M2-5, 7/22/2015 3:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-10 | **Client Sample Name:** M2-5, 7/22/2015 3:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-10 | **Client Sample Name:** M2-5, 7/22/2015 3:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/15	08/02/15 16:03	MGC	MS-V5	1	BYH0011

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-10 | **Client Sample Name:** M2-5, 7/22/2015 3:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/07/15	08/08/15 11:31	OLH	IC6	1	BYH0654

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-11 | **Client Sample Name:** M2-Dup, 7/22/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-11 | **Client Sample Name:** M2-Dup, 7/22/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.48**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-11 | **Client Sample Name:** M2-Dup, 7/22/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/15	08/02/15 16:26	MGC	MS-V5	1	BYH0011

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-11 | **Client Sample Name:** M2-Dup, 7/22/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/08/15 19:28	OLH	IC6	1	BYH0658

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-12 | **Client Sample Name:** QCAB, 7/22/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-12 | **Client Sample Name:** QCAB, 7/22/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	**0.12**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-12 | **Client Sample Name:** QCAB, 7/22/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/15	08/02/15 22:31	MGC	MS-V5	1	BYH0011

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-13 | **Client Sample Name:** QCTB, 7/22/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-13 | **Client Sample Name:** QCTB, 7/22/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-13 | **Client Sample Name:** QCTB, 7/22/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/15	08/02/15 22:54	MGC	MS-V5	1	BYH0011

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-14 | **Client Sample Name:** Miro-3, 7/22/2015 8:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.49**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-14 | **Client Sample Name:** Miro-3, 7/22/2015 8:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.52**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**4.2**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-14 | **Client Sample Name:** Miro-3, 7/22/2015 8:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/15	08/02/15 23:17	MGC	MS-V5	1	BYH0011

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-14 | **Client Sample Name:** Miro-3, 7/22/2015 8:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**21**	**ug/L**	**8.0**	**2.6**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 12:52	OLH	IC6	2	BYH0658

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-15 | **Client Sample Name:** N-5, 7/22/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-15 | **Client Sample Name:** N-5, 7/22/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.15**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-15 | **Client Sample Name:** N-5, 7/22/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/15	08/02/15 23:39	MGC	MS-V5	1	BYH0011

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-15 | **Client Sample Name:** N-5, 7/22/2015 10:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/08/15 21:23	OLH	IC6	1	BYH0658

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-16 | **Client Sample Name:** N7-4, 7/22/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.12**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.10**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	**0.75**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.39**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-16 | **Client Sample Name:** N7-4, 7/22/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**3.4**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.59**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	**0.13**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-16 | **Client Sample Name:** N7-4, 7/22/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/15	08/03/15 00:02	MGC	MS-V5	1	BYH0011

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-16 | **Client Sample Name:** N7-4, 7/22/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**6.4**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/08/15 21:52	OLH	IC6	1	BYH0658

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-17 | **Client Sample Name:** F-6A2, 7/22/2015 10:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.13**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-17 | **Client Sample Name:** F-6A2, 7/22/2015 10:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.17**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.28**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.24**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518122-17 | **Client Sample Name:** F-6A2, 7/22/2015 10:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/15	08/03/15 00:25	MGC	MS-V5	1	BYH0011

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518122-17 | **Client Sample Name:** F-6A2, 7/22/2015 10:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/08/15 22:20	OLH	IC6	1	BYH0658

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2654						
Benzene	BYG2654-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BYG2654-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BYG2654-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYG2654-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYG2654-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYG2654-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BYG2654-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BYG2654-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BYG2654-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BYG2654-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYG2654-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYG2654-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYG2654-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYG2654-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BYG2654-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BYG2654-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BYG2654-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BYG2654-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYG2654-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYG2654-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYG2654-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYG2654-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYG2654-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYG2654-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYG2654-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYG2654-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYG2654-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYG2654-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYG2654-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYG2654-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BYG2654-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BYG2654-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BYG2654-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BYG2654-BLK1	ND	ug/L	0.50	0.14	

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250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2654						
trans-1,3-Dichloropropene	BYG2654-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYG2654-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BYG2654-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BYG2654-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BYG2654-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BYG2654-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BYG2654-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BYG2654-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BYG2654-BLK1	ND	ug/L	0.50	0.11	
Styrene	BYG2654-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYG2654-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYG2654-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYG2654-BLK1	ND	ug/L	0.50	0.13	
Toluene	BYG2654-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYG2654-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYG2654-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BYG2654-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BYG2654-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYG2654-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYG2654-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYG2654-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYG2654-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BYG2654-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYG2654-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYG2654-BLK1	ND	ug/L	0.50	0.12	
Acetone	BYG2654-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BYG2654-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BYG2654-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BYG2654-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BYG2654-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BYG2654-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BYG2654-BLK1	ND	ug/L	5.0	1.4	
Ethyl methacrylate	BYG2654-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BYG2654-BLK1	ND	ug/L	0.50	0.18	

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Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2654						
2-Hexanone	BYG2654-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BYG2654-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BYG2654-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BYG2654-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BYG2654-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BYG2654-BLK1	ND	ug/L	5.0	1.5	
Nitrobenzene	BYG2654-BLK1	ND	ug/L	30	13	
Pentachloroethane	BYG2654-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BYG2654-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BYG2654-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BYG2654-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYG2654-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYG2654-BLK1**	**104**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYG2654-BLK1**	**98.9**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYG2654-BLK1**	**103**	%	**80 - 120 (LCL - UCL)**		
QC Batch ID: BYH0011						
Benzene	BYH0011-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BYH0011-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BYH0011-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYH0011-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYH0011-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYH0011-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BYH0011-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BYH0011-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BYH0011-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BYH0011-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYH0011-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYH0011-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYH0011-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYH0011-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BYH0011-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BYH0011-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BYH0011-BLK1	ND	ug/L	0.50	0.13	

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Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0011						
1,2-Dibromo-3-chloropropane	BYH0011-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYH0011-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYH0011-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYH0011-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYH0011-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYH0011-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYH0011-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYH0011-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYH0011-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYH0011-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYH0011-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYH0011-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYH0011-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BYH0011-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BYH0011-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BYH0011-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BYH0011-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BYH0011-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYH0011-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BYH0011-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BYH0011-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BYH0011-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BYH0011-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BYH0011-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BYH0011-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BYH0011-BLK1	ND	ug/L	0.50	0.11	
Styrene	BYH0011-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYH0011-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYH0011-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYH0011-BLK1	ND	ug/L	0.50	0.13	
Toluene	BYH0011-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYH0011-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYH0011-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BYH0011-BLK1	ND	ug/L	0.50	0.11	

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Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0011						
1,1,2-Trichloroethane	BYH0011-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYH0011-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYH0011-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYH0011-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYH0011-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BYH0011-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYH0011-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYH0011-BLK1	ND	ug/L	0.50	0.12	
Acetone	BYH0011-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BYH0011-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BYH0011-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BYH0011-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BYH0011-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BYH0011-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BYH0011-BLK1	ND	ug/L	5.0	1.4	
Ethyl methacrylate	BYH0011-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BYH0011-BLK1	ND	ug/L	0.50	0.18	
2-Hexanone	BYH0011-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BYH0011-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BYH0011-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BYH0011-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BYH0011-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BYH0011-BLK1	ND	ug/L	5.0	1.5	
Nitrobenzene	BYH0011-BLK1	ND	ug/L	30	13	
Pentachloroethane	BYH0011-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BYH0011-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BYH0011-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BYH0011-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYH0011-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYH0011-BLK1**	**106**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYH0011-BLK1**	**99.5**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYH0011-BLK1**	**102**	%	**80 - 120 (LCL - UCL)**		

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG2654										
Benzene	BYG2654-BS1	LCS	24.480	25.000	ug/L	97.9		70 - 130		
Bromodichloromethane	BYG2654-BS1	LCS	25.550	25.000	ug/L	102		70 - 130		
Chlorobenzene	BYG2654-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Chloroethane	BYG2654-BS1	LCS	27.310	25.000	ug/L	109		70 - 130		
1,4-Dichlorobenzene	BYG2654-BS1	LCS	25.880	25.000	ug/L	104		70 - 130		
1,1-Dichloroethane	BYG2654-BS1	LCS	25.510	25.000	ug/L	102		70 - 130		
1,1-Dichloroethene	BYG2654-BS1	LCS	26.950	25.000	ug/L	108		70 - 130		
Toluene	BYG2654-BS1	LCS	23.650	25.000	ug/L	94.6		70 - 130		
Trichloroethene	BYG2654-BS1	LCS	28.240	25.000	ug/L	113		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYG2654-BS1	LCS	9.9300	10.000	ug/L	99.3		75 - 125		
Toluene-d8 (Surrogate)	BYG2654-BS1	LCS	9.8400	10.000	ug/L	98.4		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYG2654-BS1	LCS	10.100	10.000	ug/L	101		80 - 120		
QC Batch ID: BYH0011										
Benzene	BYH0011-BS1	LCS	23.320	25.000	ug/L	93.3		70 - 130		
Bromodichloromethane	BYH0011-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Chlorobenzene	BYH0011-BS1	LCS	23.100	25.000	ug/L	92.4		70 - 130		
Chloroethane	BYH0011-BS1	LCS	25.300	25.000	ug/L	101		70 - 130		
1,4-Dichlorobenzene	BYH0011-BS1	LCS	25.420	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	BYH0011-BS1	LCS	23.950	25.000	ug/L	95.8		70 - 130		
1,1-Dichloroethene	BYH0011-BS1	LCS	25.910	25.000	ug/L	104		70 - 130		
Toluene	BYH0011-BS1	LCS	23.110	25.000	ug/L	92.4		70 - 130		
Trichloroethene	BYH0011-BS1	LCS	23.880	25.000	ug/L	95.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYH0011-BS1	LCS	9.6300	10.000	ug/L	96.3		75 - 125		
Toluene-d8 (Surrogate)	BYH0011-BS1	LCS	9.9000	10.000	ug/L	99.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYH0011-BS1	LCS	10.270	10.000	ug/L	103		80 - 120		

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2654	Used client sample: N										
Benzene	MS	1518669-03	ND	23.720	25.000	ug/L		94.9		70 - 130	
	MSD	1518669-03	ND	23.960	25.000	ug/L	1.0	95.8	20	70 - 130	
Bromodichloromethane	MS	1518669-03	ND	26.610	25.000	ug/L		106		70 - 130	
	MSD	1518669-03	ND	25.490	25.000	ug/L	4.3	102	20	70 - 130	
Chlorobenzene	MS	1518669-03	ND	22.740	25.000	ug/L		91.0		70 - 130	
	MSD	1518669-03	ND	23.210	25.000	ug/L	2.0	92.8	20	70 - 130	
Chloroethane	MS	1518669-03	ND	26.780	25.000	ug/L		107		70 - 130	
	MSD	1518669-03	ND	27.070	25.000	ug/L	1.1	108	20	70 - 130	
1,4-Dichlorobenzene	MS	1518669-03	ND	24.840	25.000	ug/L		99.4		70 - 130	
	MSD	1518669-03	ND	25.140	25.000	ug/L	1.2	101	20	70 - 130	
1,1-Dichloroethane	MS	1518669-03	ND	24.700	25.000	ug/L		98.8		70 - 130	
	MSD	1518669-03	ND	25.000	25.000	ug/L	1.2	100	20	70 - 130	
1,1-Dichloroethene	MS	1518669-03	ND	25.980	25.000	ug/L		104		70 - 130	
	MSD	1518669-03	ND	26.170	25.000	ug/L	0.7	105	20	70 - 130	
Toluene	MS	1518669-03	ND	24.750	25.000	ug/L		99.0		70 - 130	
	MSD	1518669-03	ND	23.760	25.000	ug/L	4.1	95.0	20	70 - 130	
Trichloroethene	MS	1518669-03	ND	25.050	25.000	ug/L		100		70 - 130	
	MSD	1518669-03	ND	24.010	25.000	ug/L	4.2	96.0	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1518669-03	ND	9.8400	10.000	ug/L		98.4		75 - 125	
	MSD	1518669-03	ND	9.9500	10.000	ug/L	1.1	99.5		75 - 125	
Toluene-d8 (Surrogate)	MS	1518669-03	ND	10.000	10.000	ug/L		100		80 - 120	
	MSD	1518669-03	ND	9.9800	10.000	ug/L	0.2	99.8		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1518669-03	ND	9.8200	10.000	ug/L		98.2		80 - 120	
	MSD	1518669-03	ND	10.440	10.000	ug/L	6.1	104		80 - 120	
QC Batch ID: BYH0011	Used client sample: N										
Benzene	MS	1518669-08	ND	24.780	25.000	ug/L		99.1		70 - 130	
	MSD	1518669-08	ND	25.530	25.000	ug/L	3.0	102	20	70 - 130	
Bromodichloromethane	MS	1518669-08	0.30000	27.610	25.000	ug/L		109		70 - 130	
	MSD	1518669-08	0.30000	27.560	25.000	ug/L	0.2	109	20	70 - 130	
Chlorobenzene	MS	1518669-08	ND	24.330	25.000	ug/L		97.3		70 - 130	
	MSD	1518669-08	ND	24.130	25.000	ug/L	0.8	96.5	20	70 - 130	
Chloroethane	MS	1518669-08	ND	27.970	25.000	ug/L		112		70 - 130	
	MSD	1518669-08	ND	28.760	25.000	ug/L	2.8	115	20	70 - 130	
1,4-Dichlorobenzene	MS	1518669-08	ND	26.170	25.000	ug/L		105		70 - 130	
	MSD	1518669-08	ND	26.460	25.000	ug/L	1.1	106	20	70 - 130	
1,1-Dichloroethane	MS	1518669-08	ND	26.010	25.000	ug/L		104		70 - 130	
	MSD	1518669-08	ND	26.930	25.000	ug/L	3.5	108	20	70 - 130	

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH0011	Used client sample: N										
1,1-Dichloroethene	MS	1518669-08	ND	26.830	25.000	ug/L		107		70 - 130	
	MSD	1518669-08	ND	28.640	25.000	ug/L	6.5	115	20	70 - 130	
Toluene	MS	1518669-08	ND	24.410	25.000	ug/L		97.6		70 - 130	
	MSD	1518669-08	ND	25.100	25.000	ug/L	2.8	100	20	70 - 130	
Trichloroethene	MS	1518669-08	ND	24.480	25.000	ug/L		97.9		70 - 130	
	MSD	1518669-08	ND	25.320	25.000	ug/L	3.4	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1518669-08	ND	10.010	10.000	ug/L		100		75 - 125	
	MSD	1518669-08	ND	10.250	10.000	ug/L	2.4	102		75 - 125	
Toluene-d8 (Surrogate)	MS	1518669-08	ND	9.8100	10.000	ug/L		98.1		80 - 120	
	MSD	1518669-08	ND	9.6800	10.000	ug/L	1.3	96.8		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1518669-08	ND	10.360	10.000	ug/L		104		80 - 120	
	MSD	1518669-08	ND	9.6600	10.000	ug/L	7.0	96.6		80 - 120	

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Geologic Associates 250 W. First St. Suite 228 Claremont, CA 91711	**Reported:** 08/10/2015 17:36 Project: Rialto Perchlorate Investigaton Project Number: 2013-0010 Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0654						
Perchlorate	BYH0654-BLK1	ND	ug/L	4.0	1.3	
QC Batch ID: BYH0658						
Perchlorate	BYH0658-BLK1	ND	ug/L	4.0	1.3	

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYH0654										
Perchlorate	BYH0654-BS1	LCS	11.474	10.000	ug/L	115		85 - 115		
QC Batch ID: BYH0658										
Perchlorate	BYH0658-BS1	LCS	10.524	10.000	ug/L	105		85 - 115		

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Geologic Associates
250 W. First St. Suite 228
Claremont, CA 91711

Reported: 08/10/2015 17:36
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0010
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH0654	Used client sample: Y - Description: M5-7, 07/22/2015 09:10										
Perchlorate	DUP	1518122-01	ND	ND		ug/L			15		
	MS	1518122-01	ND	10.779	10.101	ug/L		107		80 - 120	
	MSD	1518122-01	ND	10.699	10.101	ug/L	0.7	106	15	80 - 120	
QC Batch ID: BYH0658	Used client sample: Y - Description: M2-Dup, 07/22/2015 00:00										
Perchlorate	DUP	1518122-11	ND	ND		ug/L			15		
	MS	1518122-11	ND	10.260	10.101	ug/L		102		80 - 120	
	MSD	1518122-11	ND	10.503	10.101	ug/L	2.3	104	15	80 - 120	

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Geologic Associates 250 W. First St. Suite 228 Claremont, CA 91711	**Reported:** 08/10/2015 17:36 Project: Rialto Perchlorate Investigaton Project Number: 2013-0010 Project Manager: Jason Sapp

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.

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Date of Report: 08/18/2015

Jason Sapp

Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Client Project:	2013-0100
BCL Project:	Rialto Perchlorate Investigaton
BCL Work Order:	1518217
Invoice ID:	B210214

Enclosed are the results of analyses for samples received by the laboratory on 7/24/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Green

Contact Person: Tina Green
Client Services Manager

Authorized Signature

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BC Laboratories, Inc.

Chain of Custody Form

Page 1 of 1

Report To:
Client: Geologic Associates
Attn: Jason Sopp
Street Address: 250 W. First St #220
City, State, Zip: Claremont, Ca. 91711
Phone: 909 626-2282 Fax: 909 626-1233
Email Address:
Work Order #: 15-1827

Project #: 2013-0100
Project Name: Rialto Perchlorate
Sampler(s): B. Salinas, M. Campbell

Analysis Requested: VOCs (EPA 524.2), 1,4-Dioxane (EPA 522), ETBE, and 1,2,3-TCP (EPA 8260B), Perchlorate (EPA 314.0)

Comments: Refer to the back of this page for completion instructions and method legend.

Sample #	Description	Date Sampled	Time Sampled	VOCs (EPA 524.2)	1,4-Dioxane, ETBE, 1,2,3-TCP (EPA 8260B)	Perchlorate (EPA 314.0)	Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-1	M2-4	7/23/15	0810	X	X	X				X				
-2	M2-3		0850	X	X	X				X				
-3	M2-2		0923	X	X	X				X				
-4	N20-6		10:38	X	X	X				X				
-5	N20-5		11:20	X	X	X				X				
-6	N20-4		11:51	X	X	X				X				
-7	N20-3		12:26	X	X	X				X				
-8	N20-1 (N20-1)		13:20	X	X	X				X				
-9	FBA-4		0905	X	X	X				X				
-10	MW-2		1200	X	X	X				X				
-11	QCAB		—	X								X		
-12	QCTB		—	X								X		1 vial

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☐ No

* Standard Turnaround = 10 work days

CHK BY: MM DISTRIBUTION: MM SUB-OUT ☐

SHORT HOLDING TIME: Cr^{+6} NO_2 NO_3 OP SS DO Cl_2 BOD MBAS COT

Billing ☑ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☑ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☑ No

Global ID (Needed for EDF)
System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	7/23/15	1710	1. [signature]	7-24-15	1745
2. [signature]	7-24-15	1640	2. [signature]	7/24/15	1640
3.			3.		

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1518217 Page 2 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 15-18217 KIB 7/24/15

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/24/15 1647
Temperature: (A) 1.4 °C / (C) 1.5 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	D	D	D	D	D	D	D	D	D	D
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:
Sample Numbering Completed By: KIB Date/Time: 7/24/15 1700 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19]
Rev. No. 19 05/06/2015
A = Actual / C = Corrected

Chain of Custody and Cooler Receipt Form for 1518217 Page 3 of 3

BC LABORATORIES INC. **COOLER RECEIPT FORM** Page 2 Of 2

Submission #: 15-18217

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208

Temperature: (A) 1.4 °C / (C) 1.5 °C

Date/Time 7/24/15 1647

Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK		A								
40ml VOA VIAL	AB									
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:

Sample Numbering Completed By: KIB Date/Time: 7/24/15 1701

A = Actual / C = Corrected

Rev. No. 19 05/06/2015 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 19]

Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:32 Project: Rialto Perchlorate Investigaton Project Number: 2013-0100 Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1518217-01	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 08:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M2-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518217-02	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 08:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M2-3	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518217-03	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 09:23
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M2-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518217-04	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 10:38
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N20-6	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518217-05	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 11:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N20-5	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518217-06	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 11:51
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N20-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518217-07	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 12:26
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N20-3	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1518217-08	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 13:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N20-1	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518217-09	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 09:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	FLA-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518217-10	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Miro-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1518217-11	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCAB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1518217-12	**COC Number:**	---	**Receive Date:**	07/24/2015 16:40
	Project Number:	---	**Sampling Date:**	07/23/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCTB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Blank Water

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-01 | **Client Sample Name:** M2-4, 7/23/2015 8:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.14**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**1.9**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-01 | **Client Sample Name:** M2-4, 7/23/2015 8:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.42**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.34**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-01 | **Client Sample Name:** M2-4, 7/23/2015 8:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/27/15 20:16	MGC	MS-V5	1	BYG2230

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San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518217-01 | **Client Sample Name:** M2-4, 7/23/2015 8:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**16**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 00:44	OLH	IC6	1	BYH0659

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-02 | **Client Sample Name:** M2-3, 7/23/2015 8:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.91**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-02 | **Client Sample Name:** M2-3, 7/23/2015 8:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.32**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.21**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-02 | **Client Sample Name:** M2-3, 7/23/2015 8:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/27/15 22:33	MGC	MS-V5	1	BYG2230

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San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518217-02 | **Client Sample Name:** M2-3, 7/23/2015 8:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**12**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 01:41	OLH	IC6	1	BYH0659

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San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-03 | **Client Sample Name:** M2-2, 7/23/2015 9:23:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.34**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-03 | **Client Sample Name:** M2-2, 7/23/2015 9:23:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.25**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.26**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-03 | **Client Sample Name:** M2-2, 7/23/2015 9:23:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/27/15 22:56	MGC	MS-V5	1	BYG2230

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518217-03 | **Client Sample Name:** M2-2, 7/23/2015 9:23:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**8.6**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 13:07	OLH	IC6	1	BYH0659

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San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-04 | **Client Sample Name:** N20-6, 7/23/2015 10:38:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-04 | **Client Sample Name:** N20-6, 7/23/2015 10:38:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-04 | **Client Sample Name:** N20-6, 7/23/2015 10:38:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/27/15 23:19	MGC	MS-V5	1	BYG2230

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518217-04 | **Client Sample Name:** N20-6, 7/23/2015 10:38:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 03:07	OLH	IC6	1	BYH0659

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-05 | **Client Sample Name:** N20-5, 7/23/2015 11:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-05 | **Client Sample Name:** N20-5, 7/23/2015 11:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-05 | **Client Sample Name:** N20-5, 7/23/2015 11:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/27/15 23:41	MGC	MS-V5	1	BYG2230

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518217-05 | **Client Sample Name:** N20-5, 7/23/2015 11:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 03:36	OLH	IC6	1	BYH0659

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-06 | **Client Sample Name:** N20-4, 7/23/2015 11:51:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-06 | **Client Sample Name:** N20-4, 7/23/2015 11:51:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-06 | **Client Sample Name:** N20-4, 7/23/2015 11:51:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/28/15 00:04	MGC	MS-V5	1	BYG2230

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518217-06 | **Client Sample Name:** N20-4, 7/23/2015 11:51:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 04:05	OLH	IC6	1	BYH0659

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Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-07 | **Client Sample Name:** N20-3, 7/23/2015 12:26:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-07 | **Client Sample Name:** N20-3, 7/23/2015 12:26:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.13**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.69**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-07 | **Client Sample Name:** N20-3, 7/23/2015 12:26:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/28/15 00:27	MGC	MS-V5	1	BYG2230

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518217-07 | **Client Sample Name:** N20-3, 7/23/2015 12:26:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 04:33	OLH	IC6	1	BYH0659

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San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-08 | **Client Sample Name:** N20-1, 7/23/2015 1:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.12**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**1.0**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND		1
1,1-Dichloroethane	**1.7**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.11**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.22**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-08 | **Client Sample Name:** N20-1, 7/23/2015 1:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**9.2**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.77**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	**0.77**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-08 | **Client Sample Name:** N20-1, 7/23/2015 1:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
TIC: Dichlorofluoromethane	**1.1**	**ug/L**			**EPA-524.2**			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/28/15 00:50	MGC	MS-V5	1	BYG2230

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518217-08 | **Client Sample Name:** N20-1, 7/23/2015 1:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 05:02	OLH	IC6	1	BYH0659

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San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-09 | **Client Sample Name:** FLA-4, 7/23/2015 9:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.34**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	**0.33**	**ug/L**	**0.50**	**0.099**	**EPA-524.2**	ND	**J**	1
1,1-Dichloroethane	**0.52**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.15**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**0.94**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-09 | **Client Sample Name:** FLA-4, 7/23/2015 9:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.25**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**3.7**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**8.9**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	**0.27**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-09 | **Client Sample Name:** FLA-4, 7/23/2015 9:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/28/15 01:12	MGC	MS-V5	1	BYG2230

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San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518217-09 | **Client Sample Name:** FLA-4, 7/23/2015 9:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**7.1**	**ug/L**	**4.0**	**1.3**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 05:59	OLH	IC6	1	BYH0659

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San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-10 | **Client Sample Name:** Miro-2, 7/23/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.48**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	**1.8**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-10 | **Client Sample Name:** Miro-2, 7/23/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.3**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	**1.2**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.51**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-10 | **Client Sample Name:** Miro-2, 7/23/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/28/15 01:35	MGC	MS-V5	1	BYG2230

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1518217-10 | **Client Sample Name:** Miro-2, 7/23/2015 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/15	08/09/15 06:28	OLH	IC6	1	BYH0659

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-11 | **Client Sample Name:** QCAB, 7/23/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-11 | **Client Sample Name:** QCAB, 7/23/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-11 | **Client Sample Name:** QCAB, 7/23/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/28/15 01:58	MGC	MS-V5	1	BYG2230

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-12 | **Client Sample Name:** QCTB, 7/23/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-12 | **Client Sample Name:** QCTB, 7/23/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	**0.72**	**ug/L**	**0.50**	**0.48**	**EPA-524.2**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1518217-12 | **Client Sample Name:** QCTB, 7/23/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/27/15	07/28/15 02:21	MGC	MS-V5	1	BYG2230

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2230						
Benzene	BYG2230-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BYG2230-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BYG2230-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYG2230-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYG2230-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYG2230-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BYG2230-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BYG2230-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BYG2230-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BYG2230-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYG2230-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYG2230-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYG2230-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYG2230-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BYG2230-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BYG2230-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BYG2230-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BYG2230-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYG2230-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYG2230-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYG2230-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYG2230-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYG2230-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYG2230-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYG2230-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYG2230-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYG2230-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYG2230-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYG2230-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYG2230-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BYG2230-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BYG2230-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BYG2230-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BYG2230-BLK1	ND	ug/L	0.50	0.14	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2230						
trans-1,3-Dichloropropene	BYG2230-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYG2230-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BYG2230-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BYG2230-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BYG2230-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BYG2230-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BYG2230-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BYG2230-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BYG2230-BLK1	ND	ug/L	0.50	0.11	
Styrene	BYG2230-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYG2230-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYG2230-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYG2230-BLK1	ND	ug/L	0.50	0.13	
Toluene	BYG2230-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYG2230-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYG2230-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BYG2230-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BYG2230-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYG2230-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYG2230-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYG2230-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYG2230-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BYG2230-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYG2230-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYG2230-BLK1	ND	ug/L	0.50	0.12	
Acetone	BYG2230-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BYG2230-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BYG2230-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BYG2230-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BYG2230-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BYG2230-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BYG2230-BLK1	ND	ug/L	5.0	1.4	
Diisopropyl ether	BYG2230-BLK1	ND	ug/L	0.50	0.23	
Ethyl methacrylate	BYG2230-BLK1	ND	ug/L	4.0	0.97	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2230						
Ethyl t-butyl ether	BYG2230-BLK1	ND	ug/L	0.50	0.18	
2-Hexanone	BYG2230-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BYG2230-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BYG2230-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BYG2230-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BYG2230-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BYG2230-BLK1	ND	ug/L	5.0	1.5	
Nitrobenzene	BYG2230-BLK1	ND	ug/L	30	13	
Pentachloroethane	BYG2230-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BYG2230-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BYG2230-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BYG2230-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYG2230-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYG2230-BLK1**	**108**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYG2230-BLK1**	**101**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYG2230-BLK1**	**101**	%	**80 - 120 (LCL - UCL)**		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG2230										
Benzene	BYG2230-BS1	LCS	23.480	25.000	ug/L	93.9		70 - 130		
Bromodichloromethane	BYG2230-BS1	LCS	26.800	25.000	ug/L	107		70 - 130		
Chlorobenzene	BYG2230-BS1	LCS	24.030	25.000	ug/L	96.1		70 - 130		
Chloroethane	BYG2230-BS1	LCS	26.810	25.000	ug/L	107		70 - 130		
1,4-Dichlorobenzene	BYG2230-BS1	LCS	22.390	25.000	ug/L	89.6		70 - 130		
1,1-Dichloroethane	BYG2230-BS1	LCS	25.250	25.000	ug/L	101		70 - 130		
1,1-Dichloroethene	BYG2230-BS1	LCS	27.890	25.000	ug/L	112		70 - 130		
Toluene	BYG2230-BS1	LCS	24.160	25.000	ug/L	96.6		70 - 130		
Trichloroethene	BYG2230-BS1	LCS	25.700	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYG2230-BS1	LCS	10.620	10.000	ug/L	106		75 - 125		
Toluene-d8 (Surrogate)	BYG2230-BS1	LCS	10.020	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYG2230-BS1	LCS	9.8200	10.000	ug/L	98.2		80 - 120		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/18/2015 12:32
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2230	Used client sample: Y - Description: M2-4, 07/23/2015 08:10										
Benzene	MS	1518217-01	ND	24.160	25.000	ug/L		96.6		70 - 130	
	MSD	1518217-01	ND	23.610	25.000	ug/L	2.3	94.4	20	70 - 130	
Bromodichloromethane	MS	1518217-01	ND	27.430	25.000	ug/L		110		70 - 130	
	MSD	1518217-01	ND	27.500	25.000	ug/L	0.3	110	20	70 - 130	
Chlorobenzene	MS	1518217-01	ND	24.950	25.000	ug/L		99.8		70 - 130	
	MSD	1518217-01	ND	23.910	25.000	ug/L	4.3	95.6	20	70 - 130	
Chloroethane	MS	1518217-01	ND	26.220	25.000	ug/L		105		70 - 130	
	MSD	1518217-01	ND	27.460	25.000	ug/L	4.6	110	20	70 - 130	
1,4-Dichlorobenzene	MS	1518217-01	ND	22.920	25.000	ug/L		91.7		70 - 130	
	MSD	1518217-01	ND	22.260	25.000	ug/L	2.9	89.0	20	70 - 130	
1,1-Dichloroethane	MS	1518217-01	0.14000	25.740	25.000	ug/L		102		70 - 130	
	MSD	1518217-01	0.14000	25.210	25.000	ug/L	2.1	100	20	70 - 130	
1,1-Dichloroethene	MS	1518217-01	ND	28.460	25.000	ug/L		114		70 - 130	
	MSD	1518217-01	ND	27.870	25.000	ug/L	2.1	111	20	70 - 130	
Toluene	MS	1518217-01	ND	24.190	25.000	ug/L		96.8		70 - 130	
	MSD	1518217-01	ND	23.670	25.000	ug/L	2.2	94.7	20	70 - 130	
Trichloroethene	MS	1518217-01	0.34000	24.800	25.000	ug/L		97.8		70 - 130	
	MSD	1518217-01	0.34000	24.470	25.000	ug/L	1.3	96.5	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1518217-01	ND	11.150	10.000	ug/L		112		75 - 125	
	MSD	1518217-01	ND	10.940	10.000	ug/L	1.9	109		75 - 125	
Toluene-d8 (Surrogate)	MS	1518217-01	ND	9.9800	10.000	ug/L		99.8		80 - 120	
	MSD	1518217-01	ND	9.9500	10.000	ug/L	0.3	99.5		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1518217-01	ND	10.000	10.000	ug/L		100		80 - 120	
	MSD	1518217-01	ND	9.6700	10.000	ug/L	3.4	96.7		80 - 120	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:32 Project: Rialto Perchlorate Investigaton Project Number: 2013-0100 Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0659						
Perchlorate	BYH0659-BLK1	ND	ug/L	4.0	1.3	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:32 Project: Rialto Perchlorate Investigaton Project Number: 2013-0100 Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYH0659										
Perchlorate	BYH0659-BS1	LCS	10.878	10.000	ug/L	109		85 - 115		

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:32 Project: Rialto Perchlorate Investigaton Project Number: 2013-0100 Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH0659	Used client sample: Y - Description: M2-4, 07/23/2015 08:10										
Perchlorate	DUP	1518217-01	15.887	16.766		ug/L	5.4		15		
	MS	1518217-01	15.887	25.757	10.101	ug/L		97.7		80 - 120	
	MSD	1518217-01	15.887	26.236	10.101	ug/L	1.8	102	15	80 - 120	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/18/2015 12:32 Project: Rialto Perchlorate Investigaton Project Number: 2013-0100 Project Manager: Jason Sapp

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit

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Date of Report: 08/31/2015

Eric Lindberg

Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Client Project:	Mid Valley 2013-0089
BCL Project:	Santa Ana Region Samples
BCL Work Order:	1518406
Invoice ID:	B210307, B212286

Enclosed are the results of analyses for samples received by the laboratory on 7/28/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

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BC Laboratories, Inc.

Chain of Custody Form

Page 1 of 1

Report To:
Client: GeoLogic Associates
Attn: Eric Lindberg
Street Address: 1881 Commercenter East
City, State, Zip: San Bernardino CA 92408
Phone: (909) 383-8728 Fax:
Email Address:
Work Order #: 15-184406

Project #: 2013.0089
Project Name: Mid-Valley
Sampler(s): N. REASON

Analysis Requested

Please attach the back of this page for description and method of analysis.

Comments:

Sample #	Description	Date Sampled	Time Sampled	8260 VOCs	Perchlorate	Sulfate, TDS	Chloride, Nitrate (N)	Dissolved Metals (Ca, Mg, Na)	EPA 624 VOCs	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-1	F-6	7/27/15	0926	X	X	X	X	X					X				
-2	F-7		1055	X	X	X	X	X					X				
-3	F-8		1205	X	X	X	X	X					X				
-4	F-9		1315	X	X	X	X	X					X				
-5	QCAB		—	X											X		
-6	QCTB		—	X											X		
-7	Unit 3 Leachate	7/27/15	1440						X	Leachate							

LAB H_2O

Are there any tests with holding times less than or equal to 48 hours? ☒ Yes ☐ No

* Standard Turnaround = 10 work days

CHK BY

DISTRIBUTION

SUB-OUT

SHORT HOLDING TIME: Cr^{+6}, NO_2, NO_3, OP, SS, DO, Cl_2, BOD, MBAS, COT

Billing ☒ Same as above

Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)

System # (Needed for EDT)

	Date	Time		Date	Time
1. Relinquished By	7/27/15	1700	1. Received By	7-28-15	1430
2. Relinquished By	7-28-15	1720	2. Received By	7-28-15	1720
3. Relinquished By			3. Received By		

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1518406 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 15-18406

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received
☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/28/15 1726
Temperature: (A) 1.1 °C / (C) 1.2 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	D	D	D	D						
4oz / 8oz / 16oz PE UNPRES	E	E	E	E						
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	F	F	F	F						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK						AB				
40ml VOA VIAL	ABC	ABC	ABC	ABC	AB		ABC			
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: KIB Date/Time: 7/28/15 1747
A = Actual / C = Corrected

Rev. No. 19 05/06/2015
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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1518406-01	**COC Number:**	---	**Receive Date:**	07/28/2015 17:20
	Project Number:	Mid Valley	**Sampling Date:**	07/27/2015 09:26
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	F-6	**Lab Matrix:**	Water
	Sampled By:	GASD	**Sample Type:**	Groundwater
			Metal Analysis:	1-Field Filtered and Acidified
1518406-02	**COC Number:**	---	**Receive Date:**	07/28/2015 17:20
	Project Number:	Mid Valley	**Sampling Date:**	07/27/2015 10:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	F-7	**Lab Matrix:**	Water
	Sampled By:	GASD	**Sample Type:**	Groundwater
			Metal Analysis:	1-Field Filtered and Acidified
1518406-03	**COC Number:**	---	**Receive Date:**	07/28/2015 17:20
	Project Number:	Mid Valley	**Sampling Date:**	07/27/2015 12:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	F-8	**Lab Matrix:**	Water
	Sampled By:	GASD	**Sample Type:**	Groundwater
			Metal Analysis:	1-Field Filtered and Acidified
1518406-04	**COC Number:**	---	**Receive Date:**	07/28/2015 17:20
	Project Number:	Mid Valley	**Sampling Date:**	07/27/2015 13:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	F-9	**Lab Matrix:**	Water
	Sampled By:	GASD	**Sample Type:**	Groundwater
			Metal Analysis:	1-Field Filtered and Acidified
1518406-05	**COC Number:**	---	**Receive Date:**	07/28/2015 17:20
	Project Number:	Mid Valley	**Sampling Date:**	07/27/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCAB	**Lab Matrix:**	Water
	Sampled By:	GASD	**Sample Type:**	Water
1518406-06	**COC Number:**	---	**Receive Date:**	07/28/2015 17:20
	Project Number:	Mid Valley	**Sampling Date:**	07/27/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCTB	**Lab Matrix:**	Water
	Sampled By:	GASD	**Sample Type:**	Blank Water

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1518406-01 | **Client Sample Name:** Mid Valley, F-6, 7/27/2015 9:26:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	**0.19**	**ug/L**	**0.50**	**0.12**	**EPA-8260B**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	**0.41**	**ug/L**	**0.50**	**0.099**	**EPA-8260B**	ND	**J**	1
1,1-Dichloroethane	**0.36**	**ug/L**	**0.50**	**0.11**	**EPA-8260B**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	**0.23**	**ug/L**	**0.50**	**0.13**	**EPA-8260B**	ND	**J**	1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1518406-01 | **Client Sample Name:** Mid Valley, F-6, 7/27/2015 9:26:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Tetrachloroethene	**3.2**	**ug/L**	**0.50**	**0.13**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	**7.4**	**ug/L**	**0.50**	**0.085**	**EPA-8260B**	ND		1
Trichlorofluoromethane	**0.24**	**ug/L**	**0.50**	**0.13**	**EPA-8260B**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acetonitrile	ND	ug/L	10	5.5	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/03/15	08/05/15 02:05	JPT	MS-V13	1	BYH0111

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Water Analysis (General Chemistry)

BCL Sample ID: 1518406-01 | **Client Sample Name:** Mid Valley, F-6, 7/27/2015 9:26:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	**76**	**mg/L**	**0.10**	**0.016**	**EPA-6010B**	0.021		1
Dissolved Magnesium	**12**	**mg/L**	**0.050**	**0.019**	**EPA-6010B**	ND		1
Dissolved Sodium	**12**	**mg/L**	**0.50**	**0.051**	**EPA-6010B**	ND		1
Chloride	**9.6**	**mg/L**	**0.50**	**0.061**	**EPA-300.0**	ND		2
Nitrate as N	**5.9**	**mg/L**	**0.10**	**0.018**	**EPA-300.0**	ND		2
Sulfate	**22**	**mg/L**	**1.0**	**0.10**	**EPA-300.0**	ND		2
Total Dissolved Solids @ 180 C	**310**	**mg/L**	**20**	**20**	**EPA-160.1**	ND		3
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	07/27/15	07/31/15 10:42	ARD	PE-OP3	1	BYG2589
2	EPA-300.0	07/28/15	07/28/15 20:41	TMS	IC8	1	BYG2395
3	EPA-160.1	07/31/15	07/31/15 16:00	CAD	MANUAL	2	BYG2516
4	EPA-314.0	08/10/15	08/11/15 04:14	OLH	IC6	1	BYH0847

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2583						
Benzene	BYG2583-BLK1	ND	ug/L	0.50	0.050	
Bromodichloromethane	BYG2583-BLK1	ND	ug/L	0.50	0.050	
Bromoform	BYG2583-BLK1	ND	ug/L	0.50	0.050	
Bromomethane	BYG2583-BLK1	ND	ug/L	1.0	0.17	
Carbon tetrachloride	BYG2583-BLK1	ND	ug/L	0.50	0.066	
Chlorobenzene	BYG2583-BLK1	ND	ug/L	0.50	0.050	
Chloroethane	BYG2583-BLK1	ND	ug/L	0.50	0.055	
Chloroform	BYG2583-BLK1	ND	ug/L	0.50	0.063	
Chloromethane	BYG2583-BLK1	ND	ug/L	0.50	0.050	
Dibromochloromethane	BYG2583-BLK1	ND	ug/L	0.50	0.053	
1,2-Dichlorobenzene	BYG2583-BLK1	ND	ug/L	0.50	0.050	
1,3-Dichlorobenzene	BYG2583-BLK1	ND	ug/L	0.50	0.050	
1,4-Dichlorobenzene	BYG2583-BLK1	ND	ug/L	0.50	0.050	
1,1-Dichloroethane	BYG2583-BLK1	ND	ug/L	0.50	0.050	
1,2-Dichloroethane	BYG2583-BLK1	ND	ug/L	0.50	0.059	
1,1-Dichloroethene	BYG2583-BLK1	ND	ug/L	0.50	0.050	
trans-1,2-Dichloroethene	BYG2583-BLK1	ND	ug/L	0.50	0.060	
1,2-Dichloropropane	BYG2583-BLK1	ND	ug/L	0.50	0.072	
cis-1,3-Dichloropropene	BYG2583-BLK1	ND	ug/L	0.50	0.057	
trans-1,3-Dichloropropene	BYG2583-BLK1	ND	ug/L	0.50	0.050	
Ethylbenzene	BYG2583-BLK1	ND	ug/L	0.50	0.050	
Methylene chloride	BYG2583-BLK1	ND	ug/L	1.0	0.11	
Methyl t-butyl ether	BYG2583-BLK1	ND	ug/L	0.50	0.055	
1,1,2,2-Tetrachloroethane	BYG2583-BLK1	ND	ug/L	0.50	0.076	
Tetrachloroethene	BYG2583-BLK1	ND	ug/L	0.50	0.053	
Toluene	BYG2583-BLK1	ND	ug/L	0.50	0.050	
1,1,1-Trichloroethane	BYG2583-BLK1	ND	ug/L	0.50	0.055	
1,1,2-Trichloroethane	BYG2583-BLK1	ND	ug/L	0.50	0.085	
Trichloroethene	BYG2583-BLK1	ND	ug/L	0.50	0.063	
Trichlorofluoromethane	BYG2583-BLK1	ND	ug/L	0.50	0.074	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYG2583-BLK1	ND	ug/L	0.50	0.063	
Vinyl chloride	BYG2583-BLK1	ND	ug/L	0.50	0.069	
Total Xylenes	BYG2583-BLK1	ND	ug/L	0.50	0.15	
p- & m-Xylenes	BYG2583-BLK1	ND	ug/L	0.50	0.10	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/31/2015 15:58 Project: Santa Ana Region Samples Project Number: Mid Valley 2013-0089 Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2583						
o-Xylene	BYG2583-BLK1	ND	ug/L	0.50	0.050	
1,2-Dichloroethane-d4 (Surrogate)	**BYG2583-BLK1**	**104**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYG2583-BLK1**	**98.5**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYG2583-BLK1**	**97.9**	%	**80 - 120 (LCL - UCL)**		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG2583										
Benzene	BYG2583-BS1	LCS	23.270	25.000	ug/L	93.1		79 - 120		
Bromodichloromethane	BYG2583-BS1	LCS	23.420	25.000	ug/L	93.7		79 - 125		
Bromoform	BYG2583-BS1	LCS	23.160	25.000	ug/L	92.6		66 - 130		
Bromomethane	BYG2583-BS1	LCS	17.340	25.000	ug/L	69.4		53 - 141		
Carbon tetrachloride	BYG2583-BS1	LCS	25.220	25.000	ug/L	101		72 - 136		
Chlorobenzene	BYG2583-BS1	LCS	23.420	25.000	ug/L	93.7		82 - 118		
Chloroethane	BYG2583-BS1	LCS	24.410	25.000	ug/L	97.6		60 - 138		
Chloroform	BYG2583-BS1	LCS	24.920	25.000	ug/L	99.7		79 - 124		
Chloromethane	BYG2583-BS1	LCS	23.010	25.000	ug/L	92.0		50 - 139		
Dibromochloromethane	BYG2583-BS1	LCS	23.430	25.000	ug/L	93.7		74 - 126		
1,2-Dichlorobenzene	BYG2583-BS1	LCS	22.490	25.000	ug/L	90.0		80 - 119		
1,3-Dichlorobenzene	BYG2583-BS1	LCS	22.940	25.000	ug/L	91.8		80 - 119		
1,4-Dichlorobenzene	BYG2583-BS1	LCS	22.400	25.000	ug/L	89.6		79 - 118		
1,1-Dichloroethane	BYG2583-BS1	LCS	24.120	25.000	ug/L	96.5		77 - 125		
1,2-Dichloroethane	BYG2583-BS1	LCS	23.690	25.000	ug/L	94.8		73 - 128		
1,1-Dichloroethene	BYG2583-BS1	LCS	26.620	25.000	ug/L	106		71 - 131		
trans-1,2-Dichloroethene	BYG2583-BS1	LCS	25.210	25.000	ug/L	101		75 - 124		
1,2-Dichloropropane	BYG2583-BS1	LCS	23.300	25.000	ug/L	93.2		78 - 122		
cis-1,3-Dichloropropene	BYG2583-BS1	LCS	23.040	25.000	ug/L	92.2		75 - 124		
trans-1,3-Dichloropropene	BYG2583-BS1	LCS	22.750	25.000	ug/L	91.0		73 - 127		
Ethylbenzene	BYG2583-BS1	LCS	24.110	25.000	ug/L	96.4		79 - 121		
Methylene chloride	BYG2583-BS1	LCS	23.720	25.000	ug/L	94.9		74 - 124		
Methyl t-butyl ether	BYG2583-BS1	LCS	22.750	25.000	ug/L	91.0		71 - 124		
1,1,2,2-Tetrachloroethane	BYG2583-BS1	LCS	21.860	25.000	ug/L	87.4		71 - 121		
Tetrachloroethene	BYG2583-BS1	LCS	22.820	25.000	ug/L	91.3		74 - 129		
Toluene	BYG2583-BS1	LCS	23.600	25.000	ug/L	94.4		80 - 121		
1,1,1-Trichloroethane	BYG2583-BS1	LCS	24.530	25.000	ug/L	98.1		74 - 131		
1,1,2-Trichloroethane	BYG2583-BS1	LCS	22.760	25.000	ug/L	91.0		80 - 119		
Trichloroethene	BYG2583-BS1	LCS	23.960	25.000	ug/L	95.8		79 - 123		
Trichlorofluoromethane	BYG2583-BS1	LCS	25.390	25.000	ug/L	102		65 - 141		
1,1,2-Trichloro-1,2,2-trifluoroethane	BYG2583-BS1	LCS	25.000	25.000	ug/L	100		70 - 136		
Vinyl chloride	BYG2583-BS1	LCS	24.440	25.000	ug/L	97.8		58 - 137		
Total Xylenes	BYG2583-BS1	LCS	70.190	75.000	ug/L	93.6		79 - 121		

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG2583										
p- & m-Xylenes	BYG2583-BS1	LCS	47.140	50.000	ug/L	94.3		80 - 121		
o-Xylene	BYG2583-BS1	LCS	23.050	25.000	ug/L	92.2		78 - 122		
1,2-Dichloroethane-d4 (Surrogate)	BYG2583-BS1	LCS	9.9800	10.000	ug/L	99.8		75 - 125		
Toluene-d8 (Surrogate)	BYG2583-BS1	LCS	9.8500	10.000	ug/L	98.5		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYG2583-BS1	LCS	10.010	10.000	ug/L	100		80 - 120		

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2583	Used client sample: N										
Benzene	MS	1518555-02	ND	23.810	25.000	ug/L		95.2		79 - 120	
	MSD	1518555-02	ND	24.270	25.000	ug/L	1.9	97.1	30	79 - 120	
Bromodichloromethane	MS	1518555-02	ND	23.610	25.000	ug/L		94.4		79 - 125	
	MSD	1518555-02	ND	24.180	25.000	ug/L	2.4	96.7	30	79 - 125	
Bromoform	MS	1518555-02	ND	22.800	25.000	ug/L		91.2		66 - 130	
	MSD	1518555-02	ND	23.280	25.000	ug/L	2.1	93.1	30	66 - 130	
Bromomethane	MS	1518555-02	ND	20.760	25.000	ug/L		83.0		53 - 141	
	MSD	1518555-02	ND	19.640	25.000	ug/L	5.5	78.6	30	53 - 141	
Carbon tetrachloride	MS	1518555-02	ND	25.610	25.000	ug/L		102		72 - 136	
	MSD	1518555-02	ND	26.150	25.000	ug/L	2.1	105	30	72 - 136	
Chlorobenzene	MS	1518555-02	ND	23.650	25.000	ug/L		94.6		82 - 118	
	MSD	1518555-02	ND	24.040	25.000	ug/L	1.6	96.2	30	82 - 118	
Chloroethane	MS	1518555-02	ND	25.100	25.000	ug/L		100		60 - 138	
	MSD	1518555-02	ND	25.240	25.000	ug/L	0.6	101	30	60 - 138	
Chloroform	MS	1518555-02	ND	25.520	25.000	ug/L		102		79 - 124	
	MSD	1518555-02	ND	25.670	25.000	ug/L	0.6	103	30	79 - 124	
Chloromethane	MS	1518555-02	ND	23.880	25.000	ug/L		95.5		50 - 139	
	MSD	1518555-02	ND	24.490	25.000	ug/L	2.5	98.0	30	50 - 139	
Dibromochloromethane	MS	1518555-02	ND	23.440	25.000	ug/L		93.8		74 - 126	
	MSD	1518555-02	ND	24.270	25.000	ug/L	3.5	97.1	30	74 - 126	
1,2-Dichlorobenzene	MS	1518555-02	ND	22.820	25.000	ug/L		91.3		80 - 119	
	MSD	1518555-02	ND	23.200	25.000	ug/L	1.7	92.8	30	80 - 119	
1,3-Dichlorobenzene	MS	1518555-02	ND	23.600	25.000	ug/L		94.4		80 - 119	
	MSD	1518555-02	ND	24.130	25.000	ug/L	2.2	96.5	30	80 - 119	
1,4-Dichlorobenzene	MS	1518555-02	ND	22.700	25.000	ug/L		90.8		79 - 118	
	MSD	1518555-02	ND	23.160	25.000	ug/L	2.0	92.6	30	79 - 118	
1,1-Dichloroethane	MS	1518555-02	ND	24.590	25.000	ug/L		98.4		77 - 125	
	MSD	1518555-02	ND	24.930	25.000	ug/L	1.4	99.7	30	77 - 125	
1,2-Dichloroethane	MS	1518555-02	ND	23.480	25.000	ug/L		93.9		73 - 128	
	MSD	1518555-02	ND	23.880	25.000	ug/L	1.7	95.5	30	73 - 128	
1,1-Dichloroethene	MS	1518555-02	ND	26.500	25.000	ug/L		106		71 - 131	
	MSD	1518555-02	ND	26.980	25.000	ug/L	1.8	108	30	71 - 131	
trans-1,2-Dichloroethene	MS	1518555-02	ND	25.770	25.000	ug/L		103		75 - 124	
	MSD	1518555-02	ND	26.220	25.000	ug/L	1.7	105	30	75 - 124	
1,2-Dichloropropane	MS	1518555-02	ND	23.520	25.000	ug/L		94.1		78 - 122	
	MSD	1518555-02	ND	24.360	25.000	ug/L	3.5	97.4	30	78 - 122	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2583	Used client sample: N										
cis-1,3-Dichloropropene	MS	1518555-02	ND	19.750	25.000	ug/L		79.0		75 - 124	
	MSD	1518555-02	ND	20.810	25.000	ug/L	5.2	83.2	30	75 - 124	
trans-1,3-Dichloropropene	MS	1518555-02	ND	21.480	25.000	ug/L		85.9		73 - 127	
	MSD	1518555-02	ND	22.480	25.000	ug/L	4.5	89.9	30	73 - 127	
Ethylbenzene	MS	1518555-02	ND	24.180	25.000	ug/L		96.7		79 - 121	
	MSD	1518555-02	ND	24.890	25.000	ug/L	2.9	99.6	30	79 - 121	
Methylene chloride	MS	1518555-02	ND	23.950	25.000	ug/L		95.8		74 - 124	
	MSD	1518555-02	ND	24.400	25.000	ug/L	1.9	97.6	30	74 - 124	
Methyl t-butyl ether	MS	1518555-02	ND	23.290	25.000	ug/L		93.2		71 - 124	
	MSD	1518555-02	ND	23.570	25.000	ug/L	1.2	94.3	30	71 - 124	
1,1,2,2-Tetrachloroethane	MS	1518555-02	ND	22.680	25.000	ug/L		90.7		71 - 121	
	MSD	1518555-02	ND	23.020	25.000	ug/L	1.5	92.1	30	71 - 121	
Tetrachloroethene	MS	1518555-02	ND	23.540	25.000	ug/L		94.2		74 - 129	
	MSD	1518555-02	ND	24.110	25.000	ug/L	2.4	96.4	30	74 - 129	
Toluene	MS	1518555-02	ND	23.840	25.000	ug/L		95.4		80 - 121	
	MSD	1518555-02	ND	24.310	25.000	ug/L	2.0	97.2	30	80 - 121	
1,1,1-Trichloroethane	MS	1518555-02	ND	25.230	25.000	ug/L		101		74 - 131	
	MSD	1518555-02	ND	25.410	25.000	ug/L	0.7	102	30	74 - 131	
1,1,2-Trichloroethane	MS	1518555-02	ND	22.540	25.000	ug/L		90.2		80 - 119	
	MSD	1518555-02	ND	23.420	25.000	ug/L	3.8	93.7	30	80 - 119	
Trichloroethene	MS	1518555-02	ND	23.680	25.000	ug/L		94.7		79 - 123	
	MSD	1518555-02	ND	24.480	25.000	ug/L	3.3	97.9	30	79 - 123	
Trichlorofluoromethane	MS	1518555-02	ND	25.970	25.000	ug/L		104		65 - 141	
	MSD	1518555-02	ND	26.190	25.000	ug/L	0.8	105	30	65 - 141	
1,1,2-Trichloro-1,2,2-trifluoroethane	MS	1518555-02	ND	25.720	25.000	ug/L		103		70 - 136	
	MSD	1518555-02	ND	26.130	25.000	ug/L	1.6	105	30	70 - 136	
Vinyl chloride	MS	1518555-02	ND	24.940	25.000	ug/L		99.8		58 - 137	
	MSD	1518555-02	ND	25.870	25.000	ug/L	3.7	103	30	58 - 137	
Total Xylenes	MS	1518555-02	ND	71.590	75.000	ug/L		95.5		79 - 121	
	MSD	1518555-02	ND	72.710	75.000	ug/L	1.6	96.9	30	79 - 121	
p- & m-Xylenes	MS	1518555-02	ND	48.310	50.000	ug/L		96.6		80 - 121	
	MSD	1518555-02	ND	49.050	50.000	ug/L	1.5	98.1	30	80 - 121	
o-Xylene	MS	1518555-02	ND	23.280	25.000	ug/L		93.1		78 - 122	
	MSD	1518555-02	ND	23.660	25.000	ug/L	1.6	94.6	30	78 - 122	
1,2-Dichloroethane-d4 (Surrogate)	MS	1518555-02	ND	9.9600	10.000	ug/L		99.6		75 - 125	
	MSD	1518555-02	ND	10.140	10.000	ug/L	1.8	101		75 - 125	

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 624)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2583	Used client sample: N										
Toluene-d8 (Surrogate)	MS	1518555-02	ND	9.7500	10.000	ug/L		97.5		80 - 120	
	MSD	1518555-02	ND	9.9600	10.000	ug/L	2.1	99.6		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1518555-02	ND	9.8800	10.000	ug/L		98.8		80 - 120	
	MSD	1518555-02	ND	9.9400	10.000	ug/L	0.6	99.4		80 - 120	

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Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0111						
Benzene	BYH0111-BLK1	ND	ug/L	0.50	0.083	
Bromochloromethane	BYH0111-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYH0111-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYH0111-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYH0111-BLK1	ND	ug/L	1.0	0.25	
Carbon tetrachloride	BYH0111-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYH0111-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYH0111-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYH0111-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYH0111-BLK1	ND	ug/L	0.50	0.14	
Dibromochloromethane	BYH0111-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BYH0111-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYH0111-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYH0111-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYH0111-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYH0111-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYH0111-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYH0111-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYH0111-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYH0111-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYH0111-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYH0111-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYH0111-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYH0111-BLK1	ND	ug/L	0.50	0.13	
cis-1,3-Dichloropropene	BYH0111-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BYH0111-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYH0111-BLK1	ND	ug/L	0.50	0.098	
Isopropylbenzene	BYH0111-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	BYH0111-BLK1	ND	ug/L	1.0	0.48	
Naphthalene	BYH0111-BLK1	ND	ug/L	0.50	0.36	
Styrene	BYH0111-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYH0111-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYH0111-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYH0111-BLK1	ND	ug/L	0.50	0.13	

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San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0111						
Toluene	BYH0111-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYH0111-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYH0111-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BYH0111-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BYH0111-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYH0111-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYH0111-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYH0111-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BYH0111-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYH0111-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYH0111-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BYH0111-BLK1	ND	ug/L	1.0	0.36	
Acetone	BYH0111-BLK1	ND	ug/L	10	4.6	
Acetonitrile	BYH0111-BLK1	ND	ug/L	10	5.5	
Acrylonitrile	BYH0111-BLK1	ND	ug/L	5.0	1.2	
Carbon disulfide	BYH0111-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BYH0111-BLK1	ND	ug/L	5.0	1.4	
1,4-Dioxane	BYH0111-BLK1	ND	ug/L	100	42	
2-Hexanone	BYH0111-BLK1	ND	ug/L	10	3.4	
Methyl ethyl ketone	BYH0111-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BYH0111-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BYH0111-BLK1	ND	ug/L	10	2.1	
Vinyl acetate	BYH0111-BLK1	ND	ug/L	10	1.8	
p- & m-Xylenes	BYH0111-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYH0111-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYH0111-BLK1**	**109**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYH0111-BLK1**	**98.0**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYH0111-BLK1**	**92.8**	%	**80 - 120 (LCL - UCL)**		

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Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYH0111										
Benzene	BYH0111-BS1	LCS	25.650	25.000	ug/L	103		70 - 130		
Bromodichloromethane	BYH0111-BS1	LCS	26.880	25.000	ug/L	108		70 - 130		
Chlorobenzene	BYH0111-BS1	LCS	24.840	25.000	ug/L	99.4		70 - 130		
Chloroethane	BYH0111-BS1	LCS	23.710	25.000	ug/L	94.8		70 - 130		
1,4-Dichlorobenzene	BYH0111-BS1	LCS	25.210	25.000	ug/L	101		70 - 130		
1,1-Dichloroethane	BYH0111-BS1	LCS	27.230	25.000	ug/L	109		70 - 130		
1,1-Dichloroethene	BYH0111-BS1	LCS	27.900	25.000	ug/L	112		70 - 130		
Toluene	BYH0111-BS1	LCS	25.740	25.000	ug/L	103		70 - 130		
Trichloroethene	BYH0111-BS1	LCS	26.710	25.000	ug/L	107		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYH0111-BS1	LCS	10.430	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BYH0111-BS1	LCS	10.220	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYH0111-BS1	LCS	9.8200	10.000	ug/L	98.2		80 - 120		

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Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH0111	Used client sample: N										
Benzene	MS	1516891-38	ND	24.990	25.000	ug/L		100		70 - 130	
	MSD	1516891-38	ND	24.860	25.000	ug/L	0.5	99.4	20	70 - 130	
Bromodichloromethane	MS	1516891-38	ND	26.370	25.000	ug/L		105		70 - 130	
	MSD	1516891-38	ND	25.300	25.000	ug/L	4.1	101	20	70 - 130	
Chlorobenzene	MS	1516891-38	ND	24.520	25.000	ug/L		98.1		70 - 130	
	MSD	1516891-38	ND	24.660	25.000	ug/L	0.6	98.6	20	70 - 130	
Chloroethane	MS	1516891-38	ND	21.110	25.000	ug/L		84.4		70 - 130	
	MSD	1516891-38	ND	22.890	25.000	ug/L	8.1	91.6	20	70 - 130	
1,4-Dichlorobenzene	MS	1516891-38	ND	25.130	25.000	ug/L		101		70 - 130	
	MSD	1516891-38	ND	25.310	25.000	ug/L	0.7	101	20	70 - 130	
1,1-Dichloroethane	MS	1516891-38	ND	25.810	25.000	ug/L		103		70 - 130	
	MSD	1516891-38	ND	26.040	25.000	ug/L	0.9	104	20	70 - 130	
1,1-Dichloroethene	MS	1516891-38	ND	26.990	25.000	ug/L		108		70 - 130	
	MSD	1516891-38	ND	26.300	25.000	ug/L	2.6	105	20	70 - 130	
Toluene	MS	1516891-38	ND	25.770	25.000	ug/L		103		70 - 130	
	MSD	1516891-38	ND	25.860	25.000	ug/L	0.3	103	20	70 - 130	
Trichloroethene	MS	1516891-38	ND	26.300	25.000	ug/L		105		70 - 130	
	MSD	1516891-38	ND	26.580	25.000	ug/L	1.1	106	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1516891-38	ND	10.070	10.000	ug/L		101		75 - 125	
	MSD	1516891-38	ND	10.340	10.000	ug/L	2.6	103		75 - 125	
Toluene-d8 (Surrogate)	MS	1516891-38	ND	9.9200	10.000	ug/L		99.2		80 - 120	
	MSD	1516891-38	ND	10.170	10.000	ug/L	2.5	102		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1516891-38	ND	9.6700	10.000	ug/L		96.7		80 - 120	
	MSD	1516891-38	ND	9.8000	10.000	ug/L	1.3	98.0		80 - 120	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2395						
Chloride	BYG2395-BLK1	ND	mg/L	0.50	0.061	
Nitrate as N	BYG2395-BLK1	ND	mg/L	0.10	0.018	
Sulfate	BYG2395-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BYG2516						
Total Dissolved Solids @ 180 C	BYG2516-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BYG2517						
Total Dissolved Solids @ 180 C	BYG2517-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BYG2589						
Dissolved Calcium	**BYG2589-BLK1**	**0.020571**	**mg/L**	**0.10**	**0.016**	**J**
Dissolved Magnesium	BYG2589-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BYG2589-BLK1	ND	mg/L	0.50	0.051	
QC Batch ID: BYH0847						
Perchlorate	BYH0847-BLK1	ND	ug/L	4.0	1.3	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG2395										
Chloride	BYG2395-BS1	LCS	51.288	50.000	mg/L	103		90 - 110		
Nitrate as N	BYG2395-BS1	LCS	5.0850	5.0000	mg/L	102		90 - 110		
Sulfate	BYG2395-BS1	LCS	102.08	100.00	mg/L	102		90 - 110		
QC Batch ID: BYG2516										
Total Dissolved Solids @ 180 C	BYG2516-BS1	LCS	595.00	586.00	mg/L	102		90 - 110		
QC Batch ID: BYG2517										
Total Dissolved Solids @ 180 C	BYG2517-BS1	LCS	590.00	586.00	mg/L	101		90 - 110		
QC Batch ID: BYG2589										
Dissolved Calcium	BYG2589-BS1	LCS	10.587	10.000	mg/L	106		85 - 115		
Dissolved Magnesium	BYG2589-BS1	LCS	9.9276	10.000	mg/L	99.3		85 - 115		
Dissolved Sodium	BYG2589-BS1	LCS	10.190	10.000	mg/L	102		85 - 115		
QC Batch ID: BYH0847										
Perchlorate	BYH0847-BS1	LCS	10.450	10.000	ug/L	105		85 - 115		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/31/2015 15:58
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2395	Used client sample: N										
Chloride	DUP	1518363-01	17.714	18.078		mg/L	2.0		10		
	MS	1518363-01	17.714	73.041	50.505	mg/L		110		80 - 120	
	MSD	1518363-01	17.714	73.109	50.505	mg/L	0.1	110	10	80 - 120	
Nitrate as N	DUP	1518363-01	4.2050	4.2190		mg/L	0.3		10		
	MS	1518363-01	4.2050	9.6768	5.0505	mg/L		108		80 - 120	
	MSD	1518363-01	4.2050	9.6909	5.0505	mg/L	0.1	109	10	80 - 120	
Sulfate	DUP	1518363-01	13.028	13.290		mg/L	2.0		10		
	MS	1518363-01	13.028	120.79	101.01	mg/L		107		80 - 120	
	MSD	1518363-01	13.028	120.95	101.01	mg/L	0.1	107	10	80 - 120	
QC Batch ID: BYG2516	Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	1518538-01	1050.0	1025.0		mg/L	2.4		10		
QC Batch ID: BYG2517	Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	1518459-02	675.00	655.00		mg/L	3.0		10		
QC Batch ID: BYG2589	Used client sample: N										
Dissolved Calcium	DUP	**1518319-01**	**7358.0**	**7379.7**		**mg/L**	**0.3**		**20**		
	MS	**1518319-01**	**7358.0**	**8177.1**	**510.20**	**mg/L**		**161**		**75 - 125**	**A03**
	MSD	**1518319-01**	**7358.0**	**8129.5**	**510.20**	**mg/L**	**0.6**	**151**	**20**	**75 - 125**	**A03**
Dissolved Magnesium	DUP	1518319-01	485.28	482.99		mg/L	0.5		20		
	MS	1518319-01	485.28	985.18	510.20	mg/L		98.0		75 - 125	
	MSD	1518319-01	485.28	977.15	510.20	mg/L	0.8	96.4	20	75 - 125	
Dissolved Sodium	DUP	**1518319-01**	**20986**	**21019**		**mg/L**	**0.2**		**20**		
	MS	**1518319-01**	**20986**	**21793**	**510.20**	**mg/L**		**158**		**75 - 125**	**A03**
	MSD	**1518319-01**	**20986**	**21678**	**510.20**	**mg/L**	**0.5**	**136**	**20**	**75 - 125**	**A03**
QC Batch ID: BYH0847	Used client sample: N										
Perchlorate	DUP	1518411-13	ND	ND		ug/L			15		
	MS	1518411-13	ND	9.8339	10.101	ug/L		97.4		80 - 120	
	MSD	1518411-13	ND	10.228	10.101	ug/L	3.9	101	15	80 - 120	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/31/2015 15:58 Project: Santa Ana Region Samples Project Number: Mid Valley 2013-0089 Project Manager: Eric Lindberg

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A03	The sample concentration is more than 4 times the spike level.

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Date of Report: 08/14/2015

Eric Lindberg

Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Client Project:	Mid Valley 2013-0089
BCL Project:	Santa Ana Region Samples
BCL Work Order:	1518531
Invoice ID:	B210713

Enclosed are the results of analyses for samples received by the laboratory on 7/29/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

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BC Laboratories, Inc.

Chain of Custody Form

Report To:
Client: Geo-Logic Associates
Attn: Eric Lindberg
Street Address: 1831 Commercenter East
City, State, Zip: San Bernardino CA 92408
Phone: (909) 383-8728 Fax:
Email Address:
Work Order #: 15-18531

Project #: 2013.0089
Project Name: Mid-Valley
Sampler(s): N. Reason

Page 1 of 1

Analysis Requested

Please refer to the back of this page for completion instructions and method legend.

Comments:

Sample #	Description	Date Sampled	Time Sampled	8260 (VOCs)	Sulfate, TDS	Chloride, Nitrate(N)	Perchlorate	Dissolved Metals (Ca, Mg, Na)	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-1	F-32	7/28/15	1500	X	X	X	X	X				X				
-2	QCAB	↓	—	X										X		
-3	QCTB	↓	—	X										X		
-4	QCEB															

Are there any tests with holding times less than or equal to 48 hours? ☒ Yes ☐ No

* Standard Turnaround = 10 work days

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHK BY ☑

DISTRIBUTION
INT
SUB
SUB-OUT ☐

Billing ☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☒ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)
System # (Needed for EDT)

		Date	Time			Date	Time
1. Relinquished By		7/28/15	1600	1. Received By		7-29-15	1255
2. Relinquished By		7-29-15	1730	2. Received By		7-29-15	1730
3. Relinquished By				3. Received By			

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1518531 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 15-18531

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/29/15 1756

Temperature: (A) 1.1 °C / (C) 1.2 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	D									
4oz / 8oz / 16oz PE UNPRES	E									
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	B									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK			AB							
40ml VOA VIAL	ABC	AB		AB						
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:

Sample Numbering Completed By: KIB Date/Time: 7/29/15 1519 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19] Rev. No. 19 05/06/2015

A = Actual / C = Corrected

Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/14/2015 12:05 Project: Santa Ana Region Samples Project Number: Mid Valley 2013-0089 Project Manager: Eric Lindberg

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1518531-01	**COC Number:**	---	**Receive Date:**	07/29/2015 17:30
	Project Number:	---	**Sampling Date:**	07/28/2015 15:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	F-32	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis:	1-Field Filtered and Acidified
1518531-02	**COC Number:**	---	**Receive Date:**	07/29/2015 17:30
	Project Number:	---	**Sampling Date:**	07/28/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCAB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1518531-03	**COC Number:**	---	**Receive Date:**	07/29/2015 17:30
	Project Number:	---	**Sampling Date:**	07/28/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCTB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Blank Water
1518531-04	**COC Number:**	---	**Receive Date:**	07/29/2015 17:30
	Project Number:	---	**Sampling Date:**	07/28/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCEB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1518531-01 | **Client Sample Name:** F-32, 7/28/2015 3:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1518531-01 | **Client Sample Name:** F-32, 7/28/2015 3:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Tetrachloroethene	**0.15**	**ug/L**	**0.50**	**0.13**	**EPA-8260B**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acetonitrile	ND	ug/L	10	5.5	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/04/15	08/04/15 14:22	MGC	MS-V5	1	BYH0146

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Water Analysis (General Chemistry)

BCL Sample ID: 1518531-01 | **Client Sample Name:** F-32, 7/28/2015 3:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	**67**	**mg/L**	**0.10**	**0.016**	**EPA-6010B**	0.021		1
Dissolved Magnesium	**9.9**	**mg/L**	**0.050**	**0.019**	**EPA-6010B**	ND		1
Dissolved Sodium	**11**	**mg/L**	**0.50**	**0.051**	**EPA-6010B**	ND		1
Chloride	**5.6**	**mg/L**	**0.50**	**0.061**	**EPA-300.0**	ND		2
Nitrate as N	**3.5**	**mg/L**	**0.10**	**0.018**	**EPA-300.0**	ND		2
Sulfate	**18**	**mg/L**	**1.0**	**0.10**	**EPA-300.0**	ND		2
Total Dissolved Solids @ 180 C	**270**	**mg/L**	**20**	**20**	**EPA-160.1**	ND		3
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	07/28/15	07/31/15 10:50	ARD	PE-OP3	1	BYG2589
2	EPA-300.0	07/29/15	07/30/15 06:27	OLH	IC1	1	BYG2530
3	EPA-160.1	07/31/15	07/31/15 15:00	CAD	MANUAL	2	BYG2736
4	EPA-314.0	08/12/15	08/13/15 03:15	OLH	IC6	1	BYH1149

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San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1518531-02 | **Client Sample Name:** QCAB, 7/28/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1518531-02 | **Client Sample Name:** QCAB, 7/28/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acetonitrile	ND	ug/L	10	5.5	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/04/15	08/04/15 14:45	MGC	MS-V5	1	BYH0146

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Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1518531-03 | **Client Sample Name:** QCTB, 7/28/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1518531-03 | **Client Sample Name:** QCTB, 7/28/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acetonitrile	ND	ug/L	10	5.5	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/04/15	08/04/15 15:08	MGC	MS-V5	1	BYH0146

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Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1518531-04 | **Client Sample Name:** QCEB, 7/28/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1518531-04 | **Client Sample Name:** QCEB, 7/28/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
Acetone	ND	ug/L	10	4.6	EPA-8260B	ND		1
Acetonitrile	ND	ug/L	10	5.5	EPA-8260B	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-8260B	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-8260B	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-8260B	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260B	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-8260B	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-8260B	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-8260B	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-8260B	ND		1
Vinyl acetate	ND	ug/L	10	1.8	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/04/15	08/04/15 15:31	MGC	MS-V5	1	BYH0146

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0146						
Benzene	BYH0146-BLK1	ND	ug/L	0.50	0.083	
Bromochloromethane	BYH0146-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYH0146-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYH0146-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYH0146-BLK1	ND	ug/L	1.0	0.25	
Carbon tetrachloride	BYH0146-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYH0146-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYH0146-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYH0146-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYH0146-BLK1	ND	ug/L	0.50	0.14	
Dibromochloromethane	BYH0146-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BYH0146-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYH0146-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYH0146-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYH0146-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYH0146-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYH0146-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYH0146-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYH0146-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYH0146-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYH0146-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYH0146-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYH0146-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYH0146-BLK1	ND	ug/L	0.50	0.13	
cis-1,3-Dichloropropene	BYH0146-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BYH0146-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYH0146-BLK1	ND	ug/L	0.50	0.098	
Isopropylbenzene	BYH0146-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	BYH0146-BLK1	ND	ug/L	1.0	0.48	
Naphthalene	BYH0146-BLK1	ND	ug/L	0.50	0.36	
Styrene	BYH0146-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYH0146-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYH0146-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYH0146-BLK1	ND	ug/L	0.50	0.13	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH0146						
Toluene	BYH0146-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYH0146-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYH0146-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BYH0146-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BYH0146-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYH0146-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYH0146-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYH0146-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BYH0146-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYH0146-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYH0146-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BYH0146-BLK1	ND	ug/L	1.0	0.36	
Acetone	BYH0146-BLK1	ND	ug/L	10	4.6	
Acetonitrile	BYH0146-BLK1	ND	ug/L	10	5.5	
Acrylonitrile	BYH0146-BLK1	ND	ug/L	5.0	1.2	
Carbon disulfide	BYH0146-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BYH0146-BLK1	ND	ug/L	5.0	1.4	
1,4-Dioxane	BYH0146-BLK1	ND	ug/L	100	42	
2-Hexanone	BYH0146-BLK1	ND	ug/L	10	3.4	
Methyl ethyl ketone	BYH0146-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BYH0146-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BYH0146-BLK1	ND	ug/L	10	2.1	
Vinyl acetate	BYH0146-BLK1	ND	ug/L	10	1.8	
p- & m-Xylenes	BYH0146-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYH0146-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYH0146-BLK1**	**103**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYH0146-BLK1**	**97.4**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYH0146-BLK1**	**111**	%	**80 - 120 (LCL - UCL)**		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYH0146										
Benzene	BYH0146-BS1	LCS	25.820	25.000	ug/L	103		70 - 130		
Bromodichloromethane	BYH0146-BS1	LCS	27.010	25.000	ug/L	108		70 - 130		
Chlorobenzene	BYH0146-BS1	LCS	24.890	25.000	ug/L	99.6		70 - 130		
Chloroethane	BYH0146-BS1	LCS	28.420	25.000	ug/L	114		70 - 130		
1,4-Dichlorobenzene	BYH0146-BS1	LCS	28.020	25.000	ug/L	112		70 - 130		
1,1-Dichloroethane	BYH0146-BS1	LCS	26.830	25.000	ug/L	107		70 - 130		
1,1-Dichloroethene	BYH0146-BS1	LCS	28.790	25.000	ug/L	115		70 - 130		
Toluene	BYH0146-BS1	LCS	25.970	25.000	ug/L	104		70 - 130		
Trichloroethene	BYH0146-BS1	LCS	26.120	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYH0146-BS1	LCS	10.380	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BYH0146-BS1	LCS	9.8900	10.000	ug/L	98.9		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYH0146-BS1	LCS	9.9400	10.000	ug/L	99.4		80 - 120		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH0146	Used client sample: N										
Benzene	MS	1518771-08	ND	27.390	25.000	ug/L		110		70 - 130	
	MSD	1518771-08	ND	24.260	25.000	ug/L	12.1	97.0	20	70 - 130	
Bromodichloromethane	MS	1518771-08	ND	28.980	25.000	ug/L		116		70 - 130	
	MSD	1518771-08	ND	26.650	25.000	ug/L	8.4	107	20	70 - 130	
Chlorobenzene	MS	1518771-08	ND	27.150	25.000	ug/L		109		70 - 130	
	MSD	1518771-08	ND	24.120	25.000	ug/L	11.8	96.5	20	70 - 130	
Chloroethane	MS	1518771-08	ND	30.540	25.000	ug/L		122		70 - 130	
	MSD	1518771-08	ND	26.840	25.000	ug/L	12.9	107	20	70 - 130	
1,4-Dichlorobenzene	MS	1518771-08	ND	31.020	25.000	ug/L		124		70 - 130	
	MSD	1518771-08	ND	26.780	25.000	ug/L	14.7	107	20	70 - 130	
1,1-Dichloroethane	MS	1518771-08	ND	28.570	25.000	ug/L		114		70 - 130	
	MSD	1518771-08	ND	25.290	25.000	ug/L	12.2	101	20	70 - 130	
1,1-Dichloroethene	MS	1518771-08	ND	29.880	25.000	ug/L		120		70 - 130	
	MSD	1518771-08	ND	26.590	25.000	ug/L	11.7	106	20	70 - 130	
Toluene	MS	1518771-08	ND	26.630	25.000	ug/L		107		70 - 130	
	MSD	1518771-08	ND	24.570	25.000	ug/L	8.0	98.3	20	70 - 130	
Trichloroethene	MS	1518771-08	0.36000	27.390	25.000	ug/L		108		70 - 130	
	MSD	1518771-08	0.36000	25.280	25.000	ug/L	8.0	99.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1518771-08	ND	10.370	10.000	ug/L		104		75 - 125	
	MSD	1518771-08	ND	9.6600	10.000	ug/L	7.1	96.6		75 - 125	
Toluene-d8 (Surrogate)	MS	1518771-08	ND	9.7200	10.000	ug/L		97.2		80 - 120	
	MSD	1518771-08	ND	9.8100	10.000	ug/L	0.9	98.1		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1518771-08	ND	10.380	10.000	ug/L		104		80 - 120	
	MSD	1518771-08	ND	9.8100	10.000	ug/L	5.6	98.1		80 - 120	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/14/2015 12:05 Project: Santa Ana Region Samples Project Number: Mid Valley 2013-0089 Project Manager: Eric Lindberg

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYG2530						
Chloride	BYG2530-BLK1	ND	mg/L	0.50	0.061	
Nitrate as N	BYG2530-BLK1	ND	mg/L	0.10	0.018	
Sulfate	BYG2530-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BYG2589						
Dissolved Calcium	**BYG2589-BLK1**	**0.020571**	**mg/L**	**0.10**	**0.016**	**J**
Dissolved Magnesium	BYG2589-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BYG2589-BLK1	ND	mg/L	0.50	0.051	
QC Batch ID: BYG2736						
Total Dissolved Solids @ 180 C	BYG2736-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BYH1149						
Perchlorate	BYH1149-BLK1	ND	ug/L	4.0	1.3	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYG2530										
Chloride	BYG2530-BS1	LCS	51.699	50.000	mg/L	103		90 - 110		
Nitrate as N	BYG2530-BS1	LCS	5.1470	5.0000	mg/L	103		90 - 110		
Sulfate	BYG2530-BS1	LCS	102.70	100.00	mg/L	103		90 - 110		
QC Batch ID: BYG2589										
Dissolved Calcium	BYG2589-BS1	LCS	10.587	10.000	mg/L	106		85 - 115		
Dissolved Magnesium	BYG2589-BS1	LCS	9.9276	10.000	mg/L	99.3		85 - 115		
Dissolved Sodium	BYG2589-BS1	LCS	10.190	10.000	mg/L	102		85 - 115		
QC Batch ID: BYG2736										
Total Dissolved Solids @ 180 C	BYG2736-BS1	LCS	580.00	586.00	mg/L	99.0		90 - 110		
QC Batch ID: BYH1149										
Perchlorate	BYH1149-BS1	LCS	9.1348	10.000	ug/L	91.3		85 - 115		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 08/14/2015 12:05
Project: Santa Ana Region Samples
Project Number: Mid Valley 2013-0089
Project Manager: Eric Lindberg

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYG2530	Used client sample: N										
Chloride	DUP	1518521-01	4.0640	4.0760		mg/L	0.3		10		
	MS	1518521-01	4.0640	57.051	50.505	mg/L		105		80 - 120	
	MSD	1518521-01	4.0640	56.690	50.505	mg/L	0.6	104	10	80 - 120	
Nitrate as N	DUP	1518521-01	0.037000	0.035000		mg/L	5.6		10		J
	MS	1518521-01	0.037000	5.3404	5.0505	mg/L		105		80 - 120	
	MSD	1518521-01	0.037000	5.2081	5.0505	mg/L	2.5	102	10	80 - 120	
Sulfate	DUP	1518521-01	4.5700	4.5590		mg/L	0.2		10		
	MS	1518521-01	4.5700	109.41	101.01	mg/L		104		80 - 120	
	MSD	1518521-01	4.5700	108.82	101.01	mg/L	0.5	103	10	80 - 120	
QC Batch ID: BYG2589	Used client sample: N										
Dissolved Calcium	DUP	**1518319-01**	**7358.0**	**7379.7**		**mg/L**	**0.3**		**20**		
	MS	**1518319-01**	**7358.0**	**8177.1**	**510.20**	**mg/L**		**161**		**75 - 125**	**A03**
	MSD	**1518319-01**	**7358.0**	**8129.5**	**510.20**	**mg/L**	**0.6**	**151**	**20**	**75 - 125**	**A03**
Dissolved Magnesium	DUP	1518319-01	485.28	482.99		mg/L	0.5		20		
	MS	1518319-01	485.28	985.18	510.20	mg/L		98.0		75 - 125	
	MSD	1518319-01	485.28	977.15	510.20	mg/L	0.8	96.4	20	75 - 125	
Dissolved Sodium	DUP	**1518319-01**	**20986**	**21019**		**mg/L**	**0.2**		**20**		
	MS	**1518319-01**	**20986**	**21793**	**510.20**	**mg/L**		**158**		**75 - 125**	**A03**
	MSD	**1518319-01**	**20986**	**21678**	**510.20**	**mg/L**	**0.5**	**136**	**20**	**75 - 125**	**A03**
QC Batch ID: BYG2736	Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	1518683-01	2020.0	2050.0		mg/L	1.5		10		
QC Batch ID: BYH1149	Used client sample: N										
Perchlorate	DUP	1520041-01	2.8300	2.8747		ug/L	1.6		15		J
	MS	1520041-01	2.8300	11.315	10.101	ug/L		84.0		80 - 120	
	MSD	1520041-01	2.8300	11.160	10.101	ug/L	1.4	82.5	15	80 - 120	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 08/14/2015 12:05 Project: Santa Ana Region Samples Project Number: Mid Valley 2013-0089 Project Manager: Eric Lindberg

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A03	The sample concentration is more than 4 times the spike level.

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Date of Report: 09/04/2015

Jason Sapp

Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Client Project:	2013-0100
BCL Project:	Rialto Perchlorate Investigaton
BCL Work Order:	1520841
Invoice ID:	B212704

Enclosed are the results of analyses for samples received by the laboratory on 8/19/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

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BC Laboratories, Inc.

Chain of Custody Form

Page 1 of 1

Report To:
Client: Geo-Logic Associates
Attn: Jason Sapp
Street Address: 250 W. 1st St.
City, State, Zip: CM, CA 91711
Phone: 909 626-2282 Fax: 909 626-1233
Email Address:
Work Order #: 15.20841

Project #: 2013.0100
Project Name: Rialto Perchlorate
Sampler(s): BS, MC

Analysis Requested

Please refer to the back of this page for completion instructions and method legend.

Comments:

Sample #	Description	Date Sampled	Time Sampled	VOCs (524.2)	1,2,3-TCP, TBA, 1,1,2-TCE, EDB, EDC, + TAME	Perchlorate	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
1	NW-U	8/18/15	0915	X	X	X				X				
2	QETB	↓	—	X	X							LAB D.I.		
3	QCAB	↓	—	X	X							"		

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☑ No

* Standard Turnaround = 10 work days

CHK BY: MD
DISTRIBUTION: MA GW
SUB-OUT ☐

Billing ☑ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☑ Yes ☐ No
Send Copy to State of CA? (EDT) ☐ Yes ☑ No

Global ID (Needed for EDF)
System # (Needed for EDT)

Relinquished By	Date	Time	Received By	Date	Time
1. Bert Salines	8/18/15	1615	1. [illegible]	8/19/15	1212
2. [illegible]	8/19/15	1840	2. Kathleen Bong	8/19/15	1840
3.			3.		

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Chain of Custody and Cooler Receipt Form for 1520841 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 15-20841

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 8/19/15
Temperature: (A) 19 °C / (C) 18 °C Analyst Init KJB 1659

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	N									
2oz Cr+6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK		AB								
40ml VOA VIAL	ABC		AB							
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: M Date/Time: 8/19/15 ~~1828~~ 1928 Rev 20 07/24/2015
A = Actual / C = Corrected
[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20]

Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1520841-01	**COC Number:**	---	**Receive Date:**	08/19/2015 18:40
	Project Number:	---	**Sampling Date:**	08/18/2015 09:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	N14-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1520841-02	**COC Number:**	---	**Receive Date:**	08/19/2015 18:40
	Project Number:	---	**Sampling Date:**	08/18/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCTB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Blank Water
1520841-03	**COC Number:**	---	**Receive Date:**	08/19/2015 18:40
	Project Number:	---	**Sampling Date:**	08/18/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QCAB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1520841-01 | **Client Sample Name:** N14-4, 8/18/2015 9:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND	Z1	1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND	Z1	1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND	Z1	1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND	Z1	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND	Z1	1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11,Z1	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	Z1	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	Z1	1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND	Z1	1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND	Z1	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND	Z1	1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND	Z1	1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND	Z1	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND	Z1	1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND	Z1	1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND	Z1	1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND	Z1	1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND	Z1	1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND	Z1	1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND	Z1	1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND	Z1	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	Z1	1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND	Z1	1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND	Z1	1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	Z1	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND	Z1	1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND	Z1	1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND	Z1	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND	Z1	1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	Z1	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND	Z1	1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	Z1	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND	Z1	1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1520841-01 | **Client Sample Name:** N14-4, 8/18/2015 9:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND	Z1	1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND	Z1	1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND	Z1	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND	Z1	1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND	Z1	1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND	Z1	1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND	Z1	1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND	Z1	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND	Z1	1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	Z1	1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND	Z1	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND	Z1	1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND	Z1	1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND	Z1	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND	Z1	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND	Z1	1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND	Z1	1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	Z1	1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND	Z1	1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND	Z1	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND	Z1	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND	Z1	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND	Z1	1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	Z1	1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND	Z1	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND	Z1	1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND	Z1	1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND	A40,V01,Z1	1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND	Z1	1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND	Z1	1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND	Z1	1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND	Z1	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	Z1	1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1520841-01 | **Client Sample Name:** N14-4, 8/18/2015 9:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND	Z1	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND	Z1	1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND	Z1	1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND	Z1	1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND	Z1	1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND	Z1	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	Z1	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	Z1	1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND	Z1	1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND	Z1	1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	Z1	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND	A40,Z1	1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND	Z1	1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND	Z1	1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND	Z1	1
1,2-Dichloroethane-d4 (Surrogate)	82.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
TIC: Pentane	**2.3**	**ug/L**			**EPA-524.2**			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/24/15	08/24/15 20:13	JMS	MS-V14	1	BYH2021

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

BCL Sample ID: 1520841-01 | **Client Sample Name:** N14-4, 8/18/2015 9:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	1.3	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/24/15	08/24/15 18:09	EMW	IC6	1	BYH2265

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1520841-02 | **Client Sample Name:** QCTB, 8/18/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1520841-02 | **Client Sample Name:** QCTB, 8/18/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND	A40,V01	1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1520841-02 | **Client Sample Name:** QCTB, 8/18/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND	A40	1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	106	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/24/15	08/24/15 14:58	JMS	MS-V14	1	BYH2021

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1520841-03 | **Client Sample Name:** QCAB, 8/18/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1520841-03 | **Client Sample Name:** QCAB, 8/18/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND	A40,V01	1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1520841-03 | **Client Sample Name:** QCAB, 8/18/2015 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Nitrobenzene	ND	ug/L	30	13	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND	A40	1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	107	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1
TIC: 1-Ethyl-2-methylbenzene	**1.2**	**ug/L**			**EPA-524.2**			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/24/15	08/24/15 15:20	JMS	MS-V14	1	BYH2021

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH2021						
Benzene	BYH2021-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BYH2021-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BYH2021-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BYH2021-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BYH2021-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BYH2021-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BYH2021-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BYH2021-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BYH2021-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BYH2021-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BYH2021-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BYH2021-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BYH2021-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BYH2021-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BYH2021-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BYH2021-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BYH2021-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BYH2021-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BYH2021-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BYH2021-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BYH2021-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BYH2021-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BYH2021-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BYH2021-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BYH2021-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BYH2021-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BYH2021-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BYH2021-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BYH2021-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BYH2021-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BYH2021-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BYH2021-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BYH2021-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BYH2021-BLK1	ND	ug/L	0.50	0.14	

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1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH2021						
trans-1,3-Dichloropropene	BYH2021-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BYH2021-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BYH2021-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BYH2021-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BYH2021-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BYH2021-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BYH2021-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BYH2021-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BYH2021-BLK1	ND	ug/L	0.50	0.11	
Styrene	BYH2021-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BYH2021-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BYH2021-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BYH2021-BLK1	ND	ug/L	0.50	0.13	
Toluene	BYH2021-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BYH2021-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BYH2021-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BYH2021-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BYH2021-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BYH2021-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BYH2021-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BYH2021-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BYH2021-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BYH2021-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BYH2021-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BYH2021-BLK1	ND	ug/L	0.50	0.12	
Acetone	BYH2021-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BYH2021-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BYH2021-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BYH2021-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BYH2021-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BYH2021-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BYH2021-BLK1	ND	ug/L	5.0	1.4	
Diisopropyl ether	BYH2021-BLK1	ND	ug/L	0.50	0.23	
Ethyl methacrylate	BYH2021-BLK1	ND	ug/L	4.0	0.97	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH2021						
Ethyl t-butyl ether	BYH2021-BLK1	ND	ug/L	0.50	0.18	
2-Hexanone	BYH2021-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BYH2021-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BYH2021-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BYH2021-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BYH2021-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BYH2021-BLK1	ND	ug/L	5.0	1.5	
Nitrobenzene	BYH2021-BLK1	ND	ug/L	30	13	
Pentachloroethane	BYH2021-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BYH2021-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BYH2021-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BYH2021-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYH2021-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BYH2021-BLK1**	**94.4**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BYH2021-BLK1**	**106**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BYH2021-BLK1**	**104**	%	**80 - 120 (LCL - UCL)**		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYH2021										
Benzene	BYH2021-BS1	LCS	22.141	25.000	ug/L	88.6		70 - 130		
Bromodichloromethane	BYH2021-BS1	LCS	20.527	25.000	ug/L	82.1		70 - 130		
Chlorobenzene	BYH2021-BS1	LCS	21.986	25.000	ug/L	87.9		70 - 130		
Chloroethane	BYH2021-BS1	LCS	25.449	25.000	ug/L	102		70 - 130		
1,4-Dichlorobenzene	BYH2021-BS1	LCS	24.805	25.000	ug/L	99.2		70 - 130		
1,1-Dichloroethane	BYH2021-BS1	LCS	22.000	25.000	ug/L	88.0		70 - 130		
1,1-Dichloroethene	BYH2021-BS1	LCS	24.291	25.000	ug/L	97.2		70 - 130		
Toluene	BYH2021-BS1	LCS	23.384	25.000	ug/L	93.5		70 - 130		
Trichloroethene	BYH2021-BS1	LCS	22.970	25.000	ug/L	91.9		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYH2021-BS1	LCS	8.4200	10.000	ug/L	84.2		75 - 125		
Toluene-d8 (Surrogate)	BYH2021-BS1	LCS	10.240	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYH2021-BS1	LCS	10.580	10.000	ug/L	106		80 - 120		

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH2021	Used client sample: N										
Benzene	MS	1520754-24	ND	23.544	25.000	ug/L		94.2		70 - 130	
	MSD	1520754-24	ND	23.023	25.000	ug/L	2.2	92.1	20	70 - 130	
Bromodichloromethane	MS	1520754-24	ND	22.423	25.000	ug/L		89.7		70 - 130	
	MSD	1520754-24	ND	21.266	25.000	ug/L	5.3	85.1	20	70 - 130	
Chlorobenzene	MS	1520754-24	ND	22.084	25.000	ug/L		88.3		70 - 130	
	MSD	1520754-24	ND	22.264	25.000	ug/L	0.8	89.1	20	70 - 130	
Chloroethane	MS	1520754-24	ND	26.168	25.000	ug/L		105		70 - 130	
	MSD	1520754-24	ND	21.623	25.000	ug/L	19.0	86.5	20	70 - 130	
1,4-Dichlorobenzene	MS	1520754-24	ND	25.152	25.000	ug/L		101		70 - 130	
	MSD	1520754-24	ND	23.548	25.000	ug/L	6.6	94.2	20	70 - 130	
1,1-Dichloroethane	MS	1520754-24	ND	23.789	25.000	ug/L		95.2		70 - 130	
	MSD	1520754-24	ND	22.976	25.000	ug/L	3.5	91.9	20	70 - 130	
1,1-Dichloroethene	MS	1520754-24	ND	29.231	25.000	ug/L		117		70 - 130	
	MSD	1520754-24	ND	24.327	25.000	ug/L	18.3	97.3	20	70 - 130	
Toluene	MS	1520754-24	ND	23.853	25.000	ug/L		95.4		70 - 130	
	MSD	1520754-24	ND	23.441	25.000	ug/L	1.7	93.8	20	70 - 130	
Trichloroethene	MS	1520754-24	ND	22.877	25.000	ug/L		91.5		70 - 130	
	MSD	1520754-24	ND	23.395	25.000	ug/L	2.2	93.6	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1520754-24	ND	9.7100	10.000	ug/L		97.1		75 - 125	
	MSD	1520754-24	ND	8.6400	10.000	ug/L	11.7	86.4		75 - 125	
Toluene-d8 (Surrogate)	MS	1520754-24	ND	10.230	10.000	ug/L		102		80 - 120	
	MSD	1520754-24	ND	10.160	10.000	ug/L	0.7	102		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1520754-24	ND	10.560	10.000	ug/L		106		80 - 120	
	MSD	1520754-24	ND	10.330	10.000	ug/L	2.2	103		80 - 120	

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Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYH2265						
Perchlorate	BYH2265-BLK1	ND	ug/L	4.0	1.3	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 09/04/2015 10:27 Project: Rialto Perchlorate Investigaton Project Number: 2013-0100 Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYH2265										
Perchlorate	BYH2265-BS1	LCS	10.612	10.000	ug/L	106		85 - 115		

Geologic Associates
1831 Commercenter East
San Bernardino, CA 92408

Reported: 09/04/2015 10:27
Project: Rialto Perchlorate Investigaton
Project Number: 2013-0100
Project Manager: Jason Sapp

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYH2265	Used client sample: N										
Perchlorate	DUP	1520874-01	ND	ND		ug/L			15		
	MS	1520874-01	ND	10.683	10.101	ug/L		106		80 - 120	
	MSD	1520874-01	ND	10.595	10.101	ug/L	0.8	105	15	80 - 120	

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Geologic Associates 1831 Commercenter East San Bernardino, CA 92408	**Reported:** 09/04/2015 10:27 Project: Rialto Perchlorate Investigaton Project Number: 2013-0100 Project Manager: Jason Sapp

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A40	Initial calibration linearity criteria not met.
V01	The Initial Calibration Verification (ICV) recovery is not within established control limits.
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.
Z1	50uL of antifoamer solution was added to the sample VOA

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Appendix B

Field Logs

WELL GAUGING DATA

Project # 150777.BN Date 7.17.15 Client AECOM

Site BG Goodrich

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
IN/5W-39 30.25	0830	2					~~499.01~~ 498.17	—		
IN/5W-39 30.35	0833	2					497.83	—		
EMW05 A	1004	2					432.39	—		
EMW05 B	0959	3					597.58	621.98		
EMW05 C	0949	3					597.19	727.90		
PW3	1058	4					459.21	—		
PW3A	1052	2					Dry	602.94		
~~PW2A~~	~~1226~~	~~4~~					Dry	~~641.57~~		
PW2	1414	4					465.32	496.52		
PW2A	1150	2					463.91	570.31		
PW4A	1214	2					Dry	644.75		
PW4	1221	4					469.78	514.31		
EMW-04C ~~EMW05C~~	1314	3					574.28	—		
EMW-04B ~~EMW05B~~	1337	3					574.72	—		
EMW-04A ~~EMW05A~~	1404	3					423.64	—		
PW1	0744	4					436.89	—		
EMW03 C	1150	3					527.95	648.07		

WELL GAUGING DATA

Project # 150727-8N1 Date 7-28-15 Client AECOM

Site B6 Goodrich

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
EMW-03 B	1220	3					527.54	568.32		
EMW-03 A	1300	3					401.47	427.68		
EPA-MW 9B	0800	4.3					479.65	744.63		
EPA-MW 9A	0713	3					479.68	548.80		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727.BN	Client: AECOM
Sampler: BN	Gauging Date: 7.27.15
Well I.D.: IN1 SW ~~305~~ 34D33	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.):	Depth to Water (ft.): 49.83
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time: – Flow Rate: Hydrostatic Pump Depth: –

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0905	Set PDB @ 600'							
7.28.15								
0905	21.5	8.03	3639	117	7.10	223	–	–

Did well dewater? Yes (No) Amount actually evacuated: –

Sampling Time: 0905 Sampling Date: 7.28.15

Sample I.D.: IN1SW 34D33-600-GW-28072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727.BM	Client: AECOM
Sampler: BM	Gauging Date: 7.27.15
Well I.D.: 1N/5W-34D2S	Well Diameter (in.) : (2) 3 4 6 8 ____
Total Well Depth (ft.) :	Depth to Water (ft.) : ~~499.09~~ 498.17
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time: – Flow Rate: – Pump Depth: –

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0850	Set	PDP at	700'	–				
7.28.15								
0850	22.9	8.00	365.8	316	6.87	13.3	–	–

Did well dewater? Yes (No)	Amount actually evacuated: –
Sampling Time: 0850	Sampling Date: 7.28.15
Sample I.D.: 1N/5W-~~3D2S~~ 34D2S-700-GW-28072015	Laboratory: T.A.
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.: ~~28072015-TB~~

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727-BN1	Client: AECOM
Sampler: BN	Gauging Date: 7-28-15
Well I.D.: EMW-03A	Well Diameter (in.): 2 (3) 4 6 8 ___
Total Well Depth (ft.): 427.68	Depth to Water (ft.): 401.97
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: Y SI SS6

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time:_____ Flow Rate: Hydra sleeve Pump Depth:_____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1250	19.6	7.97	437.4	17	6.38	-112	—	—
		-10 set Hydrasleeve @ 418'						

Did well dewater? Yes (No) Amount actually evacuated: —

Sampling Time: 1250 Sampling Date: ~~7-28-15~~ 7-28-15

Sample I.D.: EMW-03A-418-GW-28072015 Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727-BN1	Client: AECOM
Sampler: BN	Gauging Date: 7-28-15
Well I.D.: EMW-03B	Well Diameter (in.): 2 (3) 4 6 8 ___
Total Well Depth (ft.): 568.32	Depth to Water (ft.): 517.54
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time:_____ Flow Rate: Hydrasleeve – Pump Depth:_____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1215	21.7	8.53	430.7	192	0.65	-112.0	–	–
		-1001	Hydrasleeve at 560'			–		

Did well dewater? Yes No (No) Amount actually evacuated:

Sampling Time: 1215 Sampling Date: 7-28-15

Sample I.D.: EMW03B-560.GW-28072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727-BN	Client: AECOM
Sampler: BN	Gauging Date: 7-28-15
Well I.D.: EMW-03C	Well Diameter (in.): 2 (3) 4 6 8 ____
Total Well Depth (ft.): 527.95	Depth to Water (ft.): 648.07
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time: – Flow Rate: Hydrasleeve Pump Depth: –

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1140	19.7	8.24	390.6	318	0.49	338	–	–
			-reset	Hydrasleeve out		640	–	

Did well dewater? Yes (No) Amount actually evacuated: –

Sampling Time: 1140 Sampling Date: 7-28-15

Sample I.D.: EMW-03C-640-GW-28072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727-BN	Client: AECOM
Sampler: BN	Gauging Date: 7-27-15
Well I.D.: ~~EMW-05A~~ EMW-04A	Well Diameter (in.) : 2 (3) 4 6 8 ____
Total Well Depth (ft.) :	Depth to Water (ft.) : 42.36
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time:_____ Flow Rate: -Hydrosleeve Pump Depth:_____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1400	19.8	8.08	426.4	71000	5.88	-70.9		

Did well dewater? Yes (No)	Amount actually evacuated:
Sampling Time: 1400	Sampling Date: 7/27/15
Sample I.D.: EMW-~~05A~~ 04A-450-GW-27072015	Laboratory: T.A.
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.: 27072015 D-1

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727-BN1	Client: AECOM
Sampler: BN	Gauging Date: 7-27-15
Well I.D.: EMW-04B ~~EMW-05B~~	Well Diameter (in.): 2 (3) 4 6 8 ____
Total Well Depth (ft.):	Depth to Water (ft.): 57.72
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time:_____ Flow Rate: Hydrasleeve - Pump Depth:_____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1330	19.8	8.73	461.5	761	1.21	-83.3	—	

Did well dewater? Yes (No)	Amount actually evacuated:
Sampling Time: 1330	Sampling Date: 7-27-15
Sample I.D.: EMW-04B ~~03B~~ 612 - 27072015	Laboratory: T.A.
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727.BM	Client: AECOM
Sampler: BM	Gauging Date: 7.27.15
Well I.D.: ~~EMW-05C~~ EMW-04C	Well Diameter (in.): 2 (3) 4 6 8 ____
Total Well Depth (ft.):	Depth to Water (ft.): 57.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: — YSI pro plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time: — Flow Rate: — Hydrasleeve — Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1300	21.7	8.67	3825	217	0.98	67.9	—	

Did well dewater? Yes (No)	Amount actually evacuated:
Sampling Time: 1300	Sampling Date: 7.27.15
Sample I.D.: EMW-~~05C~~ 04C-720-GW-27072015	Laboratory: T.A.
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727-BN	Client: AECOM
Sampler: BN	Gauging Date: 7.27.15
Well I.D.: EMW-05A	Well Diameter (in.): 2 (3) 4 6 8 ___
Total Well Depth (ft.): —	Depth to Water (ft.): 432.39
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time: — Flow Rate: — Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1015	set	Hydrolizing at	450' —					
7.28.15								
1015	19.9	7.16	436.7	752	4.67	-69.8	—	—

Did well dewater? Yes (No) Amount actually evacuated: —

Sampling Time: 1015 Sampling Date: 7.28.15

Sample I.D.: EMW-05A-450-GW-28072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150717.B-1	Client: AEIOM
Sampler: BN	Gauging Date: 7.27.15
Well I.D.: EMW-05B	Well Diameter (in.): 2 (3) 4 6 8 ____
Total Well Depth (ft.): 597.58	Depth to Water (ft.): 621.98
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time: – Flow Rate: – Hydrasleeve – Pump Depth: –

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0955 – Hydra sleeve set at 612' –								
7.28.15								
1000	21.2	6.96	918	108	0.71	117.6		

Did well dewater? Yes No Amount actually evacuated: –

Sampling Time: 1000 Sampling Date: 7.28.15

Sample I.D.: EMW-05B 612.6W 28072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727B-1	Client: AECOM
Sampler: BN	Gauging Date: 7.27.15
Well I.D.: EMW-05C	Well Diameter (in.): 2 (3) 4 6 8 ___
Total Well Depth (ft.): 727.90	Depth to Water (ft.): 597.19
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time:_____ Flow Rate: - Hydrasleeve - Pump Depth:_____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0930 –	Hydrasleeve set @ 720'			—				
7.28.15								
0930	20.5	8.77	179.5	217	1.58	44.9	–	–

Did well dewater? Yes (No) Amount actually evacuated: —

Sampling Time: 0930 Sampling Date: 7.28.15

Sample I.D.: EMW-05C-720-GW-28072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET 1 of 2

Project #: 150727.BN	Client: AECOM
Sampler: BN	Gauging Date: 7.30.15
Well I.D.: EPA-MW9A	Well Diameter (in.): 2 (3) 4 6 8 ____
Total Well Depth (ft.): 548.80	Depth to Water (ft.): 479.68
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ____

Start Purge Time: 0745 Flow Rate: 150 ml/min Pump Depth: 535

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
	Initial purge is 3,389 mL							
0808	22.3	9.34	185.2	2	4.70	-19.4	3,450	479.70
0811	22.1	8.55	359.8	2	4.53	-2.3	3,900	479.70
0814	22.1	8.18	379.4	2	4.41	18.5	4,350	479.70
0817	22.0	7.95	394.4	2	4.40	36.4	4,800	479.70
0820	21.9	7.80	399.8	2	4.42	49.4	5,250	479.70
0823	22.0	7.78	400.1	2	4.41	50.1	5,700	479.70
0826	22.1	7.79	400.3	2	4.42	51.7	6,150	479.70
7.31.15	0714	-restart pump						
0742	23.4	7.79	399.5	4	4.36	55.2	3,450	479.71
0745	22.0	7.70	398.6	2	4.34	56.2	3,900	479.71
0748	22.3	7.73	397.1	2	4.33	55.7	4,350	479.71

Did well dewater? Yes (No) Amount actually evacuated: 5250 mL

Sampling Time: 0830 Sampling Date: 7.30.15

Sample I.D.: EPA-MW3A-bw-535-bw 30072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET 2012

Project #: 150727B-1	Client: AECOM
Sampler: Br	Gauging Date: 7.30.15
Well I.D.: EPA-MW9A	Well Diameter (in.): 2 (3) 4 6 8 ____
Total Well Depth (ft.): 548.80	Depth to Water (ft.): 479.68
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: ____

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder) Pump
Sampling Method: Dedicated Tubing (New) Tubing Other ____

Start Purge Time: 0714 Flow Rate: 150 ml/min Pump Depth: 535

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0751	22.4	7.70	399.2	3	4.36	55.9	4,800	479.71
0754	22.4	7.69	399.7	2	4.35	54.8	5,250	479.71

Did well dewater? Yes (No) Amount actually evacuated: 5,250 ml

Sampling Time: 0755 Sampling Date: 7.31.15

Sample I.D.: EPA-MW-34-535-GW-30072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727.BN1	Client: AECOM
Sampler: BN	Gauging Date: 7.29.15
Well I.D.: EPA.MW.9B	Well Diameter (in.): 2 (3) 4 6 8 ___
Total Well Depth (ft.): 744.63	Depth to Water (ft.): 479.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder) Pump
Sampling Method: Dedicated Tubing (New) Tubing Other_____

Start Purge Time: 0846 Flow Rate: 150 ml/min Pump Depth: 725

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
	1 system volume = 4,415 mL							
0916	22.3	10.07	152.9	3	1.73	116.1	4,500	479.69
0919	22.4	10.10	155.3	2	1.68	-118.0	4,950	479.69
0922	22.4	10.10	154.8	2	1.49	-118.0	5,400	479.69
0925	22.3	10.10	153.0	2	1.36	-113.9	5,850	479.69
0928	22.3	10.10	154.4	2	1.33	-113.3	6,300	479.69
0931	22.4	10.10	155.7	2	1.34	-110.8	6,750	479.69

Did well dewater? Yes (No) Amount actually evacuated: 6,750

Sampling Time: 0940 Sampling Date: 7.29.15

Sample I.D.: EPA.MW9B-725.bw.29072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727-BN	Client: AECOM
Sampler: BN	Gauging Date: 7.27.15
Well I.D.: pw-2	Well Diameter (in.): 2 3 (4) 6 8 ____
Total Well Depth (ft.): 496.52	Depth to Water (ft.): 465.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time:_____ Flow Rate: -Hydrasleeve- Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1045 —	Set Hydrasleeve set @			475' —				
7.28.15								
1050	18.8	7.43	480.6	47	6.22	11.8	—	—

Did well dewater? Yes (No) Amount actually evacuated: —

Sampling Time: 1050 Sampling Date: 7.28.15

Sample I.D.: pw2-475.bw 28072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727 · BN1	Client: AECOM
Sampler: BN	Gauging Date: 7/27/15
Well I.D.: PW-3A	Well Diameter (in.): 2 3 4 6 8 ____
Total Well Depth (ft.): 602.94	Depth to Water (ft.): Dry
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: _____

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: _____ Flow Rate: _____ Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
		—	well ~~[illegible]~~ is dry		—			
		—	no sample taken		—			

Did well dewater? Yes No Amount actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150727-BM	Client: AECOM
Sampler: BM	Gauging Date: 7.27.15
Well I.D.: PW-3	Well Diameter (in.): 2 3 (4) 6 8 ____
Total Well Depth (ft.):	Depth to Water (ft.): 459.21
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time:_____ Flow Rate: Hydrasleeve Pump Depth:_____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1025 —	Hydrasleeve		Set @	490'	—			
7.28.15								
1120 1033	19.8	7.67	459.6	37	3.97	-78.3	—	—

Did well dewater? Yes (No)	Amount actually evacuated:
Sampling Time: 1120	Sampling Date: 7/28/15
Sample I.D.: PW-3-490-LW-28'	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150777.BM	Client: AECOM
Sampler: BN	Gauging Date: 7.27.15
Well I.D.: PW-4	Well Diameter (in.): 2 3 (4) 6 8 ____
Total Well Depth (ft.): 51.31	Depth to Water (ft.): 46.78
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time: – Flow Rate: Hydrasleeve – Pump Depth: –

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1115	– Hydrasleeve set at 490'			–				
7.28.15								
~~1035~~ 1120	19.7	7.69	369.5	87	1.97	45.5	–	–

Did well dewater? Yes (No) Amount actually evacuated: –

Sampling Time: 1120 Sampling Date: 7.28.15

Sample I.D.: PW4-490-GW-28072015 Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150721. BN	Client: AECOM
Sampler: BN	Gauging Date: 7/27/15
Well I.D.: PW.4A	Well Diameter (in.) : ~~2~~ 3 4 6 8 ____
Total Well Depth (ft.) : 644.75	Depth to Water (ft.) : Dry
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:_____

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time:_____ Flow Rate: _____ Pump Depth:_____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
			— well is dry —					
			— no sample taken —					

Did well dewater? Yes No Amount actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME AERUM @ Good 1.1.4

PROJECT NUMBER 150717-BN

EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI Pro Plus	14A102845	7.27.15 0700	pH 7.00 4.00 10.00	7.03 4.11 10.05	✓	24.1°C	BN
			3900 uS 237.5 mV 100.0 v.o.	3917 238.7 116.3 v	✓	23.7°C	BN
YSI Pro Plus	14A102845	7.28.15 0700	pH 7.00 4.00 10.00	7.00 4.12 9.79	✓	24.5°C	BN
			3900 uS 237.5 mV 100.0 v.o.	3878 24.6.6 102.3	✓	24.6°C	BN
YSI Pro Plus	14A102845	7.29.15 0700	pH 7.00 4.00 10.00	6.98 4.03 10.16	✓	25.1°C	BN
	~~14A102~~		3900 uS 237.5 mV 100.0	3878 241.3 97.3 v	✓	25.7°C	BN
YSI Pro Plus	14A102845	7.30.15 0650	pH 7.00 4.00 10.00	7.04 3.98 9.87	✓	23.1°C	BN
			3900 uS 237.5 100.0 v.o.	3868 241.3 108.3 v	✓	22.9°C	BN
YSI Pro Plus	14A102845	7.31.15 0700	pH 7.00 4.00 10.00	7.03 3.98 10.16	✓	20.1°C	BN
			3900 uS 237.5 100 v	3878 241.3 113.0 v	✓	19.7°C	BN

WELL GAUGING DATA

Project # 150213-HH1 Date 02/13/15 Client AECOM

Site 1348 Baseline, Rialto, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
EMW-01A	1025	3					423.05	—		
EMW-01B	1105	3					422.81	—		
Rialto-2	1300	Production Well					483.91	—		
CMW-02A	0920	2				HH	DRY ~~450.91~~	450.91 HH		
CMW-02B	0930	2					475.58	—		
CMW-02C	0939	2					481.44	—		

WELL MONITORING DATA SHEET

Project #: 150713-HH1	Client: AECOM
Sampler: HH	Date: 07/13/15
Well I.D.: EMW-013	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 422.81
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: —	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other _____

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, (Other:) Hydrasleeve

_____(Gals.) X _____ = _____ Gals.
1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1115	20.3	8.38	362	140	—	
1130 – reset hydrasleeve @ 556'						

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Date: 07/13/15 Sampling Time: 1115 Depth to Water: 422.81

Sample I.D.: EMW-013-556-~~130715~~ 13072015HH Laboratory: Kiff CalScience (Other) TestAmerica

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:)

~~EB I.D.~~ FB (if applicable): ~~130715FB-1~~ 13072015FB-1 @ 1340 Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 150713-HH1	Client: AECOM
Sampler: HH	Date: 07/13/15
Well I.D.: EMW-01A	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): 423.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: —	

Purge Method: ~~Bailer~~ ~~Disposable Bailer~~ ~~Positive Air Displacement~~ ~~Electric Submersible~~ ~~Waterra~~ ~~Peristaltic~~ ~~Extraction Pump~~ ~~Other~~ ___

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, (Other:) Hydrasleeve

— (Gals.) X — = — Gals.
1 Case Volume — Specified Volumes — Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1040	23.2	8.82	3232	93	—	
1100 — reset hydrasleeve @ 470'						

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Date: 07/13/15 Sampling Time: 1040 Depth to Water: 423.05

Sample I.D.: ~~07/13/15~~ HH EMW-01A-470-GW-~~130715~~-130720151HH Laboratory: Kiff CalScience (Other) TestAmerica

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other) See C.O.C

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): 130715D-1

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP4

DATE: 07/16/15

LOCATION: 888 (W) Casmalia St, Rialto

ELEV. TOP OF WASTBAY CASING

WEATHER: Clear

PROBE TYPE Westbay

SERIAL NO. EMS2169

PROJECT BF Goodrich

OPERATOR(S) T. Hoang Kevin T.

ATM. PRESSURE (Patm): (start) 13.89 (finish) 13.83

Start: 35.04°C End: 22.91°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	768	768	146.84	135.89	146.84	20.91				1230
E	753	753	140.34	128.60	140.34	20.43				1233
SQC	738	738	133.89	122.14	133.89	18.77				1235
LQC	656	656	98.19	87.99	98.19	18.51				1238
D	641	641	91.74	80.30	91.74	18.31				1240
SQC	626	626	85.18	73.07	85.18	18.20				1243
LQC	601	601	74.27	63.50	74.27	18.09				1245
C	586	586	67.79	56.53	67.79	18.08				1247
SQC	571	571	61.13	52.14	61.13	19.43				1249
LQC	522	522	39.75	30.78	39.75	18.93				1305
B	507	507	33.31	22.30	33.31	18.63				1309
SQC	492	492	26.73	30.79	26.73	18.54				1312
LQC	428	428	14.02	20.15	14.02	18.47				1314

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP4
DATE: 07/16/15
LOCATION: 988 W. Casmalia Rialto CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 2169
PROJECT BF Goodrich
OPERATOR(S) T. Hoang, Kevin T.
ATM. PRESSURE (Patm): (start) 13.89 (finish) 13.83

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
A	413	413	14.02	17.19	14.02	18.50				1316
SQC	398	398	13.99	13.10	13.99	18.46				1318

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: EPA-MP4
SAMPLING DATE(S): 07/16/15
LOCATION: 987(W) Casmalia Rialto, CA
WATER LEVEL INSIDE CASING: 469.43
ATM. PRESSURE (PSI): (Start) 13.89 (Finish)

PROBE TYPE: Westbay
SERIAL NO.: EMS 2169
PROJECT: BF Goodrich
OPERATOR(S): T. Hoang / Kain T.
WEATHER: Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters						Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mV)	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	140.32	✓	128.58	✓	128.58	✓	140.32	24.1	265	8.71	2	6.11	104	1325	EPA-MP4E-GW-16072015
D	1	✓	✓	✓	✓	✓	91.51	✓	80.16	✓	80.16	✓	91.51	23.0	439	8.35	3	4.77	130	1355	EPA-MP4D-GW-16072015
C	1	✓	✓	✓	✓	✓	67.60	✓	56.41	✓	56.41	✓	67.61	24.5	440	8.36	2	4.51	139	1440	EPA-MP4C-GW-16072015
B	1	✓	✓	✓	✓	✓	33.04	✓	22.23	✓	22.23	✓	33.04	22.2	444	8.45	2	4.99	144	1505	EPA-MP4B-GW-16072015
A	1	✓	✓	✓	✓	✓	13.99	✓	17.15	✓	17.15	✓	13.99	24.8	290	8.73	1	4.70	134	1545	EPA-MP4A-GW-16072015

Comments: DUP-1 → 16072015D-1 @ EPA-MP4E
DUP-2 → 16072015D-2 @ EPA-MP4D
DUP-3 → 16072015D-3 @ EPA-MP4C

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-5
DATE: 07/16/15
LOCATION: Ayala + Easton, Rialto
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 2169
PROJECT BF Goodrich
OPERATOR(S) T. Hoang K. Thompson
ATM. PRESSURE (Patm): (start) 13.86 (finish) 13.90

Start: 23.59°C End: 20.11°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	687	687	126.47	113.52	126.47	19.71				0834
E	672	672	119.92	106.37	119.92	19.32				0836
SQC	657	657	113.45	100.40	113.45	18.12				0838
LQC	632	632	102.58	89.83	102.58	17.92				0841
D	617	617	96.06	82.72	96.06	17.87				0843
SQC	602	602	89.51	76.62	89.51	17.76				0845
LQC	572	572	76.41	64.46	76.41	17.70				0847
C	557	557	69.83	56.69	69.83	17.67				0849
SQC	542	542	63.33	50.33	63.33	17.63				0851
LQC	527	527	56.80	44.46	56.80	17.63				0853
B	512	512	50.30	37.23	50.30	17.62				0855
SQC	497	497	43.79	31.73	43.79	17.64				0857
LQC	482	482	37.17	24.77	37.17	17.65				0858

Comments: 16072015TB-1 @ 0800

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-5

DATE: 07/16/15

LOCATION: Ayala + Easton, Rialto, CA

ELEV. TOP OF WASTBAY CASING

WEATHER: Clear

PROBE TYPE Westbay

SERIAL NO. EMS 2169

PROJECT BF Goodrich

OPERATOR(S) J. Hoang, K. Thompson

ATM. PRESSURE (Patm): (start) 13.86 (finish) 13.90

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
A	467	467	30.74	17.72	30.74	17.69				0900
SQC	452	452	24.13	16.95	24.13	17.70				0901

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: PW-5
SAMPLING DATE(S) 07/16/15
LOCATION: Ayala + Easton Rialto
WATER LEVEL INSIDE CASING: 434.44
ATM. PRESSURE (PSI): (Start) 13.86 (Finish) 13.90

PROBE TYPE Westbay
SERIAL NO. EMS 2169
PROJECT: BF Goodrich
OPERATOR(S) J. Hearn K. Thompson
WEATHER Clear

		Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters						Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mV)	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	119.91	✓	166.37	✓	166.37	✓	119.91	19.1	365	6.88	2	7.31	140	0965	PW-5E-GW-16072015
D	1	✓	✓	✓	✓	✓	95.95	✓	82.65	✓	82.65	✓	92.95	19.4	326	8.13	1	5.03	118	0935	PW-5D-GW-16072015
C	1	✓	✓	✓	✓	✓	69.75	✓	56.71	✓	56.71	✓	69.75	21.0	404	7.81	1	6.86	90	1005	PW-5C-GW-16072015
B	1	✓	✓	✓	✓	✓	50.03	✓	37.11	✓	37.11	✓	50.03	21.6	412	8.11	2	5.31	123	1040	PW-5B-GW-16072015
A	1	✓	✓	✓	✓	✓	29.97	✓	17.65	✓	17.65	✓	29.97	21.4	437	7.91	1	4.99	101	1110	PW-5A-GW-16072015

Comments: MS/MSD VOAS – PW-5E-GW-16072015
MS/MSD Perchlorate – PW-5E-GW-16072015
EB – 16072015EB-1 @ 1015

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-6
DATE: 02/15/15
LOCATION: Leisk+Fitzgerald Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS2169
PROJECT AECOM @ Rialto
OPERATOR(S) T. Hoang, Kevin T
ATM. PRESSURE (Patm): (start) 13.89 (finish) 13.87

Temp start: 28.87°C End: 19.11°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	672	672	127.60	112.87	127.60	19.58				1107
E	657	657	121.06	105.94	121.06	18.61				1110
SQC	642	642	114.46	99.89	114.46	18.38				1114
LQC	617	617	103.63	89.11	103.63	18.22				1116
D	602	602	97.09	82.13	97.09	18.11				1118
SQC	587	587	90.50	75.81	90.50	17.98				1120
LQC	537	537	68.76	54.01	68.76	17.82				1122
C	522	522	62.19	47.47	62.19	17.74				1124
SQC	507	507	55.65	42.55	55.65	17.67				1126
LQC	492	492	49.07	36.10	49.07	17.61				1128
B	477	477	42.59	27.91	42.59	17.57				1130
LQC	457	457	33.82	19.72	33.82	17.55				1131
A	442	442	27.30	14.06	27.30	17.59				1133

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PIN-6
DATE: 07/15/15
LOCATION: Leiske + Fitzgerald Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS2169
PROJECT AECOM @ Rialto
OPERATOR(S) T. Hoang, Kevin T.
ATM. PRESSURE (Patm): (start) 13.87 (finish) 13.87

Temp Start: 28.87°C End: 19.11°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
SQC	427	427	20.74	15.88	20.74	17.63				1135

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: PW-6
SAMPLING DATE(S) 07/15/15
LOCATION: Laiske + Fitzgerald Rialto, CA
WATER LEVEL INSIDE CASING: 417.04
ATM. PRESSURE (PSI): (Start) 13.89 (Finish) 13.87

PROBE TYPE Westbay
SERIAL NO. EMS 2169
PROJECT: AECOM@ Rialto
OPERATOR(S) T. Hoang, Kain T.
WEATHER Clear

Port Number	Run Number	Probe to Top Collar: Arm out / Land Probe	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port): Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Sample Collection Checks (probe at sampling port in MP casing): Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Field Parameters: Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	ORP (mV)	Sample: Sample Time	Sample ID
~~E~~	~~1~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~127.60~~	✓	~~112.87~~	✓	~~112.87~~	✓	~~127.60~~	23.2	442	7.20	1	6.71	113	1150	PW-6E-GW-~~07~~15072015
E	1	✓	✓	✓	✓	✓	120.92	✓	105.90	✓	105.90	✓	120.92								↙
D	1	✓	✓	✓	✓	✓	96.84	✓	82.04	✓	82.04	✓	96.84	23.1	332	7.44	2	5.31	103	1225	PW-6D-GW-15072015
C	1	✓	✓	✓	✓	✓	61.93	✓	47.36	✓	47.36	✓	81.93	22.9	190	8.99	1	3.77	88	1245	PW-6C-GW-15072015
B	1	✓	✓	✓	✓	✓	42.26	✓	27.83	✓	27.85	✓	42.26	22.0	185	8.89	2	3.59	26	1315	PW-6B-GW-15072015
A	1	✓	✓	✓	✓	✓	27.01	✓	13.98	✓	13.98	✓	27.01	- Port is Dry - No Sample Taken						—	—

Comments: MS/MSD VOAs - PW-6E-GW-15072015
MS/MSD Perchlorate - PW-6D-GW-15072015
DUP-PW-6C-GW-15072015 (15072015D-1)
TB - 15072015TB-1 @ 1000
EB - 15072015EB-1 @ 1300

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-7
DATE: 07/17/15
LOCATION: Cactus + Walnut, Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 2169
PROJECT BF Goodrich
OPERATOR(S) T. Hoang Garrett A.
ATM. PRESSURE (Patm): (start) 13.83 (finish) 13.76

Start 23.17°C End: 20.77°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	832	832	205.45	183.64	205.45	19.55				0806
G	817	817	199.10	177.19	199.10	19.52				0808
SQC	802	802	192.46	170.84	192.46	19.30				0813
LQC	767	767	177.20	156.37	177.20	19.20				0815
F	752	752	170.81	149.17	170.81	19.03				0817
SQC	737	737	164.25	143.54	164.25	18.81				0819
LQC	703	703	149.01	128.92	149.01	18.50°C				0825
E	688	688	142.31	121.00	142.31	18.54				0828
SQC	673	673	135.79	115.04	135.79	18.44				0831
LQC	653	653	127.29	106.63	127.79	18.33				0833
D	638	638	120.63	99.41	120.63	18.25				0837
SQC	623	623	114.39	93.62	114.39	18.20				0840
LQC	583	583	96.68	76.17	96.68	18.18				0843

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-7
DATE: 07/17/15
LOCATION: Cactus + Walnut Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 2169
PROJECT BF Goodrich
OPERATOR(S) T. Hoang Garth A
ATM. PRESSURE (Patm): (start) 13.83 (finish) 13.76

Start: 23.17 °C End: 20.77 °C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
C	568	568	90.10	69.08	90.10	18.16				0849
SQC	553	553	83.50	63.00	83.50	18.14				~~0851~~
LQC	513	513	66.20	46.19	66.20	18.17				~~J. Stone~~ 0858
B	498	498	59.53	38.82	59.53	18.15				0904
SQC	483	483	52.99	32.92	52.99	18.17				0907
LQC	447	447	37.78	24.15	37.78	18.19				0910
A	432	432	31.26	14.15	31.26	18.21				0913
SQC	417	417	24.79	13.81	24.79	18.21				0916

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: PW-7
SAMPLING DATE(S): 07/17/15
LOCATION: Cactus + Walnut Rialto, CA
WATER LEVEL INSIDE CASING: 398.85
ATM. PRESSURE (PSI): (Start) 13.83 (Finish) 13.76

PROBE TYPE: Westbay
SERIAL NO.: EMS 2169
PROJECT: RE Goodrich
OPERATOR(S): T. Hoare, Gantt A
WEATHER: Clear

Port Number	Run Number	Probe to Top Collar: Arm out / Land Probe	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port): Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (6 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Sample Collection Checks (probe at sampling port in MP casing): Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Field Parameters: Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	ORP (mV)	Sample: Sample Time	Sample ID
G	1	✓	✓	✓	✓	✓	199.07	✓	177.16	✓	177.16	✓	199.07	20.4	290.3	8.02	0.26	5.59	86	0850	PW-7G-GW-17072015
F	1	✓	✓	✓	✓	✓	170.34	✓	149.04	✓	149.04	✓	170.34	20.6	400.4	8.02	0.25	7.89	210	0925	PW-7F-GW-17072015
E	1	✓	✓	✓	✓	✓	141.70	✓	120.98	✓	120.98	✓	141.70	20.9	437.1	7.88	0.23	5.77	212	0955	PW-7E-GW-17072015
D	1	✓	✓	✓	✓	✓	119.94	✓	99.30	✓	99.30	✓	119.94	21.2	488.7	7.87	0.17	7.52	180	1025	PW-7D-GW-17072015
C	1	✓	✓	✓	✓	✓	89.74	✓	69.06	✓	69.06	✓	89.74	22.3	492.7	7.87	0.27	5.26	152	1100	PW-7C-GW-17072015
B	1	✓	✓	✓	✓	✓	59.23	✓	38.60	✓	38.60	✓	59.23	21.5	422.2	8.02	0.27	3.11	143	1125	PW-7B-GW-17072015
A	1	✓	✓	✓	✓	✓	29.44	✓	13.92	✓	13.92	✓	29.44	— Port is Dry — No Sample Taken —							

Comments: TB-17072015TB-1 @ 0730
MS/MSD - PW-7G-GW-17072015 - VOCs
MS/MSD - PW-7F-GW-17072015 - Perchlorate
EB-17072015EB-1 @ 1005
DUP @ PW-7C-GW - 17072015D-1

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-8
DATE: 07/17/15
LOCATION: Vineyard + Linden Rialto
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS2169
PROJECT BF Goodrich
OPERATOR(S) T. Hoare, Grant A
ATM. PRESSURE (Patm): (start) 13.75 (finish) 13.80

Start: 36.90°C End: 19.89°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	787	787	146.35	119.10	146.35	22.58				1423
E	772	772	139.90	112.27	139.90	21.55				1425
SQC	757	757	133.50	106.67	133.50	19.01				1427
LQC	737	737	124.90	98.67	124.90	18.77				1429
D	722	722	118.35	90.81	118.35	18.44				1431
SQC	707	707	111.90	85.67	111.90	18.31				1433
LQC	662	662	92.15	66.66	92.15	18.06				1435
C	647	647	85.35	58.40	85.35	17.96				1437
SQC	632	632	79.20	52.36	79.20	17.83				1439
LQC	562	562	48.64	21.76	48.64	17.67				1441
B	547	547	42.13	15.11	42.13	17.59				1443
SQC	532	532	35.67	17.05	35.67	17.56				1445
LQC	452	452	13.97	17.15	13.97	17.55				1447

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: PW-8
SAMPLING DATE(S): 07/17/15 + 07/20/15
LOCATION: Vineyard + Linden Rialto
WATER LEVEL INSIDE CASING: 487.63
ATM. PRESSURE (PSI): (Start) 13.75 (Finish) 13.80

PROBE TYPE: Westbay
SERIAL NO.: EMS2169
PROJECT: BF Goodrich
OPERATOR(S): J. Hoang
WEATHER: Clear

Port Number	Run Number	Probe to Top Collar: Arm out / Land Probe	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port): Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Sample Collection Checks (probe at sampling port in MP casing): Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Field Parameters: Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	ORP (mV)	Sample: Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	139.86	✓	112.25	✓	112.25	✓	139.86	21.3	297.8	8.22	0.27	6.03	88	1500	PW-8E-GW-17072015
D	1	✓	✓	✓	✓	✓	118.29	✓	90.73	✓	90.73	✓	118.29	22.1	305.8	6.73	0.29	7.17	166	0835	PW-8D-GW-20072015
C	1	✓	✓	✓	✓	✓	85.64	✓	58.37	✓	58.37	✓	85.64	21.5	335.0	7.95	0.18	5.56	133	0905	PW-8C-GW-20072015
B	1	✓	✓	✓	✓	✓	42.11	✓	15.11	✓	15.11	✓	42.11	23.6	380.6	8.02	0.16	3.61	130	0945	PW-8B-GW-20072015
A	1	✓	✓	✓	✓	✓	14.04	✓	26.95	✓	26.95	✓	14.04	21.7	416.1	7.90	0.18	5.44	135	1020	PW-8A-GW-20072015

Comments: 20072015TB-1 — 0700
DUP-@ PW-8D-GW-20072015 — 20072015D-1
FB - 20072015FB-1 @ 0925

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-8
DATE: 07/17/15
LOCATION: Vineyard
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 2169
PROJECT BF Goodrich
OPERATOR(S) T. Hoang Gantt A
ATM. PRESSURE (Patm): (start) 13.75 (finish) 13.80

Start: 36.90°C End: 19.89°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
A	442	442	14.00	26.93	14.00	17.59				~~1500~~ 1450
SQC	427	427	13.99	27.36	13.99	27.36				1451

Comments:

TestAmerica Irvine
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Phone: 949.261.1022 Fax:

Chain of Custody Record

068532

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TAL-8210 (07.13)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Rebecca Mora/Holly	Site Contact: Holly Holbrook	Date: 07/13/2015	COC No:
Company Name: AECOM	Tel/Fax: 714-689-7215 Holbrook	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
Address: 999 W. Town & Country Rd	Analysis Turnaround Time			Sampler: Trinh Hoang / Kevin Thompson
City/State/Zip: Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 714-689-7215	TAT if different from Below _____			Walk-in Client:
Fax: —	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich, Rialto, CA	☐ 1 week			Job / SDG No.:
Site: Rialto, CA	☐ 2 days			
PO# 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
13072015TB-1	7-13-15	1015		W	3	N	N	X		
EMW-01A-470-GW-13072015	7/13/15	1040		W	4	N	N	X	X	
EMW-01B-556-GW-13072015	7/13/15	1115		W	4	N	N	X	X	
13072015D-1	7/13/15	—		W	4	N	N	X	X	
13072015FB-1	7/13/15	1340		W	4	N	N	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1,2 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Blaine tech	07/13/15/1530			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

TESTAMERICA
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 07/15/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Thinh Hoang / Kevin Th
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
15072015 TB-1	7/15/15	1000	G	W	3	N	N	X		
PW-6A-GW-15072015	7/15/15	—	G	W	0	N	N			No Sample collected - Dry.
PW-6B-GW-15072015	7/15/15	1315	G	W	4	N	N	X	X	
PW-6C-GW-15072015	7/15/15	1245	G	W	4	N	N	X	X	
PW-6D-GW-15072015	7/15/15	1225	G	W	6	N	N	X	X	MS/MSD on Perchlorate only.
PW-6E-GW-15072015	7/15/15	1150	G	W	10	N	N	X	X	MS/MSD on VOCs only.
15072015D-1	7/15/15	—	G	W	4	N	N	X	X	
15072015 EB-1	7/15/15	1300	G	W	4	N	N	X	X	
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1,2 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	07/15/15-1545			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 16 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Thinh Hoang; Kevin Thang
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
16072015TB-1	7/16/15	0800	G	W	3	N	N	X		
16072015EB-1	7/16/15	1015	G	W	4	N	N	X	X	
PW-5E-GW-16072015	7/16/15	0905	G	W	10	N	N	X	X	MS/MSD on VOCs only
PW-5D-GW-16072015	7/16/15	0935	G	W	6	N	N	X	X	MS/MSD on perchlorate only
PW-5C-GW-16072015	7/16/15	1005	G	W	4	N	N	X	X	
PW-5B-GW-16072015	7/16/15	1040	G	W	4	N	N	X	X	
PW-5A-GW-16072015	7/16/15	1110	G	W	4	N	N	X	X	
EPA-MP4E-GW-16072015	7/16/15	1325	G	W	4	N	N	X	X	
EPA-MP4D-GW-16072015	7/16/15	1355	G	W	4	N	N	X	X	
16072015D-3	7/16/15	—	G	W	4	N	N	X	X	
16072015D-1	7/16/15	—	G	W	4	N	N	X	X	
16072015D-2	7/16/15	—	G	W	4	N	N	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1,2 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	07/16/15-1815			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 16 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	2 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Trinh Hoang; Kevin Thang
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
EPA-MP4C-GW-16072015	7/16/15	1440	G	W	4	N	N	X	X	
EPA-MP4B-GW-16072015	7/16/15	1505	G	W	4	N	N	X	X	
EPA-MP4A-GW-16072015	7/16/15	1545	G	W	4	N	N	X	X	
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								1,2	1	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BTS	07/16/15-1815			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 17 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Thinh Hang; Phillip Jeffers
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
17072015TB-1	7/17/15	0730	G	W	3	N	N	X		
17072015EB-1	7/17/15	1005	G	W	4	N	N	X	X	
PW-7G-GW-17072015	7/17/15	0850	G	W	10	N	N	X	X	MS/MSD on VOCs only
PW-7F-GW-17072015	7/17/15	0925	G	W	6	N	N	X	X	MS/MSD on Perchlorate only
PW-7E-GW-17072015	7/17/15	0955	G	W	4	N	N	X	X	
PW-7D-GW-17072015	7/17/15	1025	G	W	4	N	N	X	X	
PW-7C-GW-17072015	7/17/15	1100	G	W	4	N	N	X	X	
PW-7B-GW-17072015	7/17/15	1125	G	W	4	N	N	X	X	
PW-8E-GW-17072015	7/17/15	1500	G	W	4	N	N	X	X	
17072015D-1	7/17/15	—	G	W	4	N	N	X	X	
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1,2 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

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Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	07/17/15-1700			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 20 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Thanh Hoang; Joe Gatel
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
20072015TB-1	7/20/15	0700	G	W	3	N	N	X		
20072015EB-1	7/20/15	0925	G	W	5	N	N	X	X	
PW-8D-GW-20072015	7/20/15	0835	G	W	4	N	N	X	X	
PW-8C-GW-20072015	7/20/15	0905	G	W	5	N	N	X	X	
PW-8B-GW-20072015	7/20/15	0945	G	W	5	N	N	X	X	
PW-8A-GW-20072015	7/20/15	1020	G	W	5	N	N	X	X	
20072015D-1	7/20/15	—	G	W	5	N	N	X	X	
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								1,2	1	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	07/20/15 1645			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Appendix C

Chain-of-Custody Forms and Laboratory Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-115033-1
Client Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02
Revision: 1

For:
AECOM, Inc.
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Holly Holbrook

Authorized for release by:
7/29/2015 11:32:55 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Lab Chronicle 15
QC Sample Results 16
QC Association Summary 25
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Receipt Checklists 29

Sample Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-115033-1	13072015TB-1	Water	07/13/15 10:15	07/13/15 18:20
440-115033-2	EMW-01A-470-GW-13072015	Water	07/13/15 10:40	07/13/15 18:20
440-115033-3	EMW-01B-556-GW-13072015	Water	07/13/15 11:15	07/13/15 18:20
440-115033-4	13072015D-1	Water	07/13/15 00:01	07/13/15 18:20
440-115033-5	13072015FB-1	Water	07/13/15 13:40	07/13/15 18:20

Case Narrative

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Job ID: 440-115033-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-115033-1

Comments
This report was revised to correct the EPA 8260B-VOC analyte list.

Receipt
The samples were received on 7/13/2015 6:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9º C.

GC/MS VOA
Method(s) 8260B: The method blank for batch 267243 contained Benzene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-analysis of samples were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Client Sample ID: 13072015TB-1

Date Collected: 07/13/15 10:15
Date Received: 07/13/15 18:20

Lab Sample ID: 440-115033-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/16/15 10:08	1
Benzene	ND		0.50		ug/L			07/16/15 10:08	1
Bromobenzene	ND		1.0		ug/L			07/16/15 10:08	1
Bromochloromethane	ND		1.0		ug/L			07/16/15 10:08	1
Bromodichloromethane	ND		1.0		ug/L			07/16/15 10:08	1
Bromoform	ND		1.0		ug/L			07/16/15 10:08	1
Bromomethane	ND		2.0		ug/L			07/16/15 10:08	1
1,3-Butadiene	ND		1.0		ug/L			07/16/15 10:08	1
2-Butanone (MEK)	ND		10		ug/L			07/16/15 10:08	1
Carbon disulfide	ND		2.0		ug/L			07/16/15 10:08	1
Carbon tetrachloride	ND		1.0		ug/L			07/16/15 10:08	1
Chlorobenzene	ND		1.0		ug/L			07/16/15 10:08	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/16/15 10:08	1
Chloroethane	ND		1.0		ug/L			07/16/15 10:08	1
Chloroform	ND		1.0		ug/L			07/16/15 10:08	1
Chloromethane	ND		1.0		ug/L			07/16/15 10:08	1
2-Chlorotoluene	ND		2.0		ug/L			07/16/15 10:08	1
4-Chlorotoluene	ND		2.0		ug/L			07/16/15 10:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/16/15 10:08	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/16/15 10:08	1
Dibromochloromethane	ND		1.0		ug/L			07/16/15 10:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/16/15 10:08	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/16/15 10:08	1
Dibromomethane	ND		1.0		ug/L			07/16/15 10:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/16/15 10:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/16/15 10:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/16/15 10:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/16/15 10:08	1
1,1-Dichloroethane	ND		1.0		ug/L			07/16/15 10:08	1
1,2-Dichloroethane	ND		0.50		ug/L			07/16/15 10:08	1
1,1-Dichloroethene	ND		1.0		ug/L			07/16/15 10:08	1
1,2-Dichloropropane	ND		1.0		ug/L			07/16/15 10:08	1
1,3-Dichloropropane	ND		1.0		ug/L			07/16/15 10:08	1
2,2-Dichloropropane	ND		1.0		ug/L			07/16/15 10:08	1
1,1-Dichloropropene	ND		1.0		ug/L			07/16/15 10:08	1
Ethylbenzene	ND		1.0		ug/L			07/16/15 10:08	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/16/15 10:08	1
Hexachlorobutadiene	ND		2.0		ug/L			07/16/15 10:08	1
2-Hexanone	ND		10		ug/L			07/16/15 10:08	1
Isopropylbenzene	ND		1.0		ug/L			07/16/15 10:08	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/16/15 10:08	1
Methylene Chloride	ND		5.0		ug/L			07/16/15 10:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/16/15 10:08	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/16/15 10:08	1
m,p-Xylene	ND		1.0		ug/L			07/16/15 10:08	1
Naphthalene	ND		5.0		ug/L			07/16/15 10:08	1
n-Butylbenzene	ND		2.0		ug/L			07/16/15 10:08	1
N-Propylbenzene	ND		2.0		ug/L			07/16/15 10:08	1
o-Xylene	ND		1.0		ug/L			07/16/15 10:08	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Client Sample ID: 13072015TB-1

Lab Sample ID: 440-115033-1
Date Collected: 07/13/15 10:15
Matrix: Water
Date Received: 07/13/15 18:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/16/15 10:08	1
sec-Butylbenzene	ND		2.0	ug/L			07/16/15 10:08	1
Styrene	ND		1.0	ug/L			07/16/15 10:08	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/16/15 10:08	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/16/15 10:08	1
tert-Butylbenzene	ND		2.0	ug/L			07/16/15 10:08	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/16/15 10:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/16/15 10:08	1
Tetrachloroethene	ND		1.0	ug/L			07/16/15 10:08	1
Toluene	ND		1.0	ug/L			07/16/15 10:08	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/16/15 10:08	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/16/15 10:08	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/16/15 10:08	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/16/15 10:08	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/16/15 10:08	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/16/15 10:08	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/16/15 10:08	1
Trichloroethene	ND		1.0	ug/L			07/16/15 10:08	1
Trichlorofluoromethane	ND		1.0	ug/L			07/16/15 10:08	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/16/15 10:08	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/16/15 10:08	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/16/15 10:08	1
Vinyl chloride	ND		0.50	ug/L			07/16/15 10:08	1
Xylenes, Total	ND		2.0	ug/L			07/16/15 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*07/16/15 10:08*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*07/16/15 10:08*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/16/15 10:08*	*1*

Client Sample ID: EMW-01A-470-GW-13072015

Lab Sample ID: 440-115033-2
Date Collected: 07/13/15 10:40
Matrix: Water
Date Received: 07/13/15 18:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/16/15 16:02	1
Benzene	ND		0.50	ug/L			07/16/15 16:02	1
Bromobenzene	ND		1.0	ug/L			07/16/15 16:02	1
Bromochloromethane	ND		1.0	ug/L			07/16/15 16:02	1
Bromodichloromethane	ND		1.0	ug/L			07/16/15 16:02	1
Bromoform	ND		1.0	ug/L			07/16/15 16:02	1
Bromomethane	ND		2.0	ug/L			07/16/15 16:02	1
1,3-Butadiene	ND		1.0	ug/L			07/16/15 16:02	1
2-Butanone (MEK)	ND		10	ug/L			07/16/15 16:02	1
Carbon disulfide	ND		2.0	ug/L			07/16/15 16:02	1
Carbon tetrachloride	ND		1.0	ug/L			07/16/15 16:02	1
Chlorobenzene	ND		1.0	ug/L			07/16/15 16:02	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/16/15 16:02	1
Chloroethane	ND		1.0	ug/L			07/16/15 16:02	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Client Sample ID: EMW-01A-470-GW-13072015

Lab Sample ID: 440-115033-2
Date Collected: 07/13/15 10:40
Matrix: Water
Date Received: 07/13/15 18:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	ug/L			07/16/15 16:02	1
Chloromethane	ND		1.0	ug/L			07/16/15 16:02	1
2-Chlorotoluene	ND		2.0	ug/L			07/16/15 16:02	1
4-Chlorotoluene	ND		2.0	ug/L			07/16/15 16:02	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/16/15 16:02	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/16/15 16:02	1
Dibromochloromethane	ND		1.0	ug/L			07/16/15 16:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/16/15 16:02	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/16/15 16:02	1
Dibromomethane	ND		1.0	ug/L			07/16/15 16:02	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/16/15 16:02	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/16/15 16:02	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/16/15 16:02	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/16/15 16:02	1
1,1-Dichloroethane	ND		1.0	ug/L			07/16/15 16:02	1
1,2-Dichloroethane	**0.72**		0.50	ug/L			07/16/15 16:02	1
1,1-Dichloroethene	ND		1.0	ug/L			07/16/15 16:02	1
1,2-Dichloropropane	ND		1.0	ug/L			07/16/15 16:02	1
1,3-Dichloropropane	ND		1.0	ug/L			07/16/15 16:02	1
2,2-Dichloropropane	ND		1.0	ug/L			07/16/15 16:02	1
1,1-Dichloropropene	ND		1.0	ug/L			07/16/15 16:02	1
Ethylbenzene	ND		1.0	ug/L			07/16/15 16:02	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/16/15 16:02	1
Hexachlorobutadiene	ND		2.0	ug/L			07/16/15 16:02	1
2-Hexanone	ND		10	ug/L			07/16/15 16:02	1
Isopropylbenzene	ND		1.0	ug/L			07/16/15 16:02	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/16/15 16:02	1
Methylene Chloride	ND		5.0	ug/L			07/16/15 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/16/15 16:02	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/16/15 16:02	1
m,p-Xylene	ND		1.0	ug/L			07/16/15 16:02	1
Naphthalene	ND		5.0	ug/L			07/16/15 16:02	1
n-Butylbenzene	ND		2.0	ug/L			07/16/15 16:02	1
N-Propylbenzene	ND		2.0	ug/L			07/16/15 16:02	1
o-Xylene	ND		1.0	ug/L			07/16/15 16:02	1
p-Isopropyltoluene	ND		2.0	ug/L			07/16/15 16:02	1
sec-Butylbenzene	ND		2.0	ug/L			07/16/15 16:02	1
Styrene	ND		1.0	ug/L			07/16/15 16:02	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/16/15 16:02	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/16/15 16:02	1
tert-Butylbenzene	ND		2.0	ug/L			07/16/15 16:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/16/15 16:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/16/15 16:02	1
Tetrachloroethene	ND		1.0	ug/L			07/16/15 16:02	1
Toluene	**4.5**		1.0	ug/L			07/16/15 16:02	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/16/15 16:02	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/16/15 16:02	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/16/15 16:02	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/16/15 16:02	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Client Sample ID: EMW-01A-470-GW-13072015

Lab Sample ID: 440-115033-2
Date Collected: 07/13/15 10:40
Matrix: Water
Date Received: 07/13/15 18:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/16/15 16:02	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/16/15 16:02	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/16/15 16:02	1
Trichloroethene	**2.0**		1.0	ug/L			07/16/15 16:02	1
Trichlorofluoromethane	ND		1.0	ug/L			07/16/15 16:02	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/16/15 16:02	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/16/15 16:02	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/16/15 16:02	1
Vinyl chloride	ND		0.50	ug/L			07/16/15 16:02	1
Xylenes, Total	ND		2.0	ug/L			07/16/15 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*07/16/15 16:02*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*07/16/15 16:02*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/16/15 16:02*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**4.9**		3.0	ug/L			07/17/15 01:55	1

Client Sample ID: EMW-01B-556-GW-13072015

Lab Sample ID: 440-115033-3
Date Collected: 07/13/15 11:15
Matrix: Water
Date Received: 07/13/15 18:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**21**		20	ug/L			07/16/15 16:31	1
Benzene	ND		0.50	ug/L			07/16/15 16:31	1
Bromobenzene	ND		1.0	ug/L			07/16/15 16:31	1
Bromochloromethane	ND		1.0	ug/L			07/16/15 16:31	1
Bromodichloromethane	ND		1.0	ug/L			07/16/15 16:31	1
Bromoform	ND		1.0	ug/L			07/16/15 16:31	1
Bromomethane	ND		2.0	ug/L			07/16/15 16:31	1
1,3-Butadiene	ND		1.0	ug/L			07/16/15 16:31	1
2-Butanone (MEK)	ND		10	ug/L			07/16/15 16:31	1
Carbon disulfide	ND		2.0	ug/L			07/16/15 16:31	1
Carbon tetrachloride	ND		1.0	ug/L			07/16/15 16:31	1
Chlorobenzene	ND		1.0	ug/L			07/16/15 16:31	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/16/15 16:31	1
Chloroethane	ND		1.0	ug/L			07/16/15 16:31	1
Chloroform	ND		1.0	ug/L			07/16/15 16:31	1
Chloromethane	ND		1.0	ug/L			07/16/15 16:31	1
2-Chlorotoluene	ND		2.0	ug/L			07/16/15 16:31	1
4-Chlorotoluene	ND		2.0	ug/L			07/16/15 16:31	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/16/15 16:31	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/16/15 16:31	1
Dibromochloromethane	ND		1.0	ug/L			07/16/15 16:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/16/15 16:31	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/16/15 16:31	1
Dibromomethane	ND		1.0	ug/L			07/16/15 16:31	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Client Sample ID: EMW-01B-556-GW-13072015

Lab Sample ID: 440-115033-3
Date Collected: 07/13/15 11:15
Matrix: Water
Date Received: 07/13/15 18:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	ug/L			07/16/15 16:31	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/16/15 16:31	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/16/15 16:31	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/16/15 16:31	1
1,1-Dichloroethane	ND		1.0	ug/L			07/16/15 16:31	1
1,2-Dichloroethane	**1.3**		0.50	ug/L			07/16/15 16:31	1
1,1-Dichloroethene	ND		1.0	ug/L			07/16/15 16:31	1
1,2-Dichloropropane	ND		1.0	ug/L			07/16/15 16:31	1
1,3-Dichloropropane	ND		1.0	ug/L			07/16/15 16:31	1
2,2-Dichloropropane	ND		1.0	ug/L			07/16/15 16:31	1
1,1-Dichloropropene	ND		1.0	ug/L			07/16/15 16:31	1
Ethylbenzene	**2.4**		1.0	ug/L			07/16/15 16:31	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/16/15 16:31	1
Hexachlorobutadiene	ND		2.0	ug/L			07/16/15 16:31	1
2-Hexanone	ND		10	ug/L			07/16/15 16:31	1
Isopropylbenzene	ND		1.0	ug/L			07/16/15 16:31	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/16/15 16:31	1
Methylene Chloride	ND		5.0	ug/L			07/16/15 16:31	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/16/15 16:31	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/16/15 16:31	1
m,p-Xylene	**1.2**		1.0	ug/L			07/16/15 16:31	1
Naphthalene	ND		5.0	ug/L			07/16/15 16:31	1
n-Butylbenzene	ND		2.0	ug/L			07/16/15 16:31	1
N-Propylbenzene	ND		2.0	ug/L			07/16/15 16:31	1
o-Xylene	**1.2**		1.0	ug/L			07/16/15 16:31	1
p-Isopropyltoluene	ND		2.0	ug/L			07/16/15 16:31	1
sec-Butylbenzene	ND		2.0	ug/L			07/16/15 16:31	1
Styrene	ND		1.0	ug/L			07/16/15 16:31	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/16/15 16:31	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/16/15 16:31	1
tert-Butylbenzene	ND		2.0	ug/L			07/16/15 16:31	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/16/15 16:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/16/15 16:31	1
Tetrachloroethene	ND		1.0	ug/L			07/16/15 16:31	1
Toluene	**44**		1.0	ug/L			07/16/15 16:31	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/16/15 16:31	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/16/15 16:31	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/16/15 16:31	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/16/15 16:31	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/16/15 16:31	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/16/15 16:31	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/16/15 16:31	1
Trichloroethene	**3.9**		1.0	ug/L			07/16/15 16:31	1
Trichlorofluoromethane	ND		1.0	ug/L			07/16/15 16:31	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/16/15 16:31	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/16/15 16:31	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/16/15 16:31	1
Vinyl chloride	ND		0.50	ug/L			07/16/15 16:31	1
Xylenes, Total	**2.4**		2.0	ug/L			07/16/15 16:31	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Client Sample ID: EMW-01B-556-GW-13072015

Lab Sample ID: 440-115033-3
Date Collected: 07/13/15 11:15
Matrix: Water
Date Received: 07/13/15 18:20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*07/16/15 16:31*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*07/16/15 16:31*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/16/15 16:31*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**270**		30	ug/L			07/17/15 12:17	10

Client Sample ID: 13072015D-1

Lab Sample ID: 440-115033-4
Date Collected: 07/13/15 00:01
Matrix: Water
Date Received: 07/13/15 18:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/16/15 17:01	1
Benzene	ND		0.50	ug/L			07/16/15 17:01	1
Bromobenzene	ND		1.0	ug/L			07/16/15 17:01	1
Bromochloromethane	ND		1.0	ug/L			07/16/15 17:01	1
Bromodichloromethane	ND		1.0	ug/L			07/16/15 17:01	1
Bromoform	ND		1.0	ug/L			07/16/15 17:01	1
Bromomethane	ND		2.0	ug/L			07/16/15 17:01	1
1,3-Butadiene	ND		1.0	ug/L			07/16/15 17:01	1
2-Butanone (MEK)	ND		10	ug/L			07/16/15 17:01	1
Carbon disulfide	ND		2.0	ug/L			07/16/15 17:01	1
Carbon tetrachloride	ND		1.0	ug/L			07/16/15 17:01	1
Chlorobenzene	ND		1.0	ug/L			07/16/15 17:01	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/16/15 17:01	1
Chloroethane	ND		1.0	ug/L			07/16/15 17:01	1
Chloroform	ND		1.0	ug/L			07/16/15 17:01	1
Chloromethane	ND		1.0	ug/L			07/16/15 17:01	1
2-Chlorotoluene	ND		2.0	ug/L			07/16/15 17:01	1
4-Chlorotoluene	ND		2.0	ug/L			07/16/15 17:01	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/16/15 17:01	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/16/15 17:01	1
Dibromochloromethane	ND		1.0	ug/L			07/16/15 17:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/16/15 17:01	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/16/15 17:01	1
Dibromomethane	ND		1.0	ug/L			07/16/15 17:01	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/16/15 17:01	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/16/15 17:01	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/16/15 17:01	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/16/15 17:01	1
1,1-Dichloroethane	ND		1.0	ug/L			07/16/15 17:01	1
1,2-Dichloroethane	**0.70**		0.50	ug/L			07/16/15 17:01	1
1,1-Dichloroethene	ND		1.0	ug/L			07/16/15 17:01	1
1,2-Dichloropropane	ND		1.0	ug/L			07/16/15 17:01	1
1,3-Dichloropropane	ND		1.0	ug/L			07/16/15 17:01	1
2,2-Dichloropropane	ND		1.0	ug/L			07/16/15 17:01	1
1,1-Dichloropropene	ND		1.0	ug/L			07/16/15 17:01	1
Ethylbenzene	ND		1.0	ug/L			07/16/15 17:01	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Client Sample ID: 13072015D-1

Date Collected: 07/13/15 00:01
Date Received: 07/13/15 18:20

Lab Sample ID: 440-115033-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/16/15 17:01	1
Hexachlorobutadiene	ND		2.0	ug/L			07/16/15 17:01	1
2-Hexanone	ND		10	ug/L			07/16/15 17:01	1
Isopropylbenzene	ND		1.0	ug/L			07/16/15 17:01	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/16/15 17:01	1
Methylene Chloride	ND		5.0	ug/L			07/16/15 17:01	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/16/15 17:01	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/16/15 17:01	1
m,p-Xylene	ND		1.0	ug/L			07/16/15 17:01	1
Naphthalene	ND		5.0	ug/L			07/16/15 17:01	1
n-Butylbenzene	ND		2.0	ug/L			07/16/15 17:01	1
N-Propylbenzene	ND		2.0	ug/L			07/16/15 17:01	1
o-Xylene	ND		1.0	ug/L			07/16/15 17:01	1
p-Isopropyltoluene	ND		2.0	ug/L			07/16/15 17:01	1
sec-Butylbenzene	ND		2.0	ug/L			07/16/15 17:01	1
Styrene	ND		1.0	ug/L			07/16/15 17:01	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/16/15 17:01	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/16/15 17:01	1
tert-Butylbenzene	ND		2.0	ug/L			07/16/15 17:01	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/16/15 17:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/16/15 17:01	1
Tetrachloroethene	ND		1.0	ug/L			07/16/15 17:01	1
Toluene	**4.5**		1.0	ug/L			07/16/15 17:01	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/16/15 17:01	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/16/15 17:01	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/16/15 17:01	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/16/15 17:01	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/16/15 17:01	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/16/15 17:01	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/16/15 17:01	1
Trichloroethene	**2.0**		1.0	ug/L			07/16/15 17:01	1
Trichlorofluoromethane	ND		1.0	ug/L			07/16/15 17:01	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/16/15 17:01	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/16/15 17:01	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/16/15 17:01	1
Vinyl chloride	ND		0.50	ug/L			07/16/15 17:01	1
Xylenes, Total	ND		2.0	ug/L			07/16/15 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*07/16/15 17:01*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*07/16/15 17:01*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*07/16/15 17:01*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**5.1**		3.0	ug/L			07/17/15 12:34	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Client Sample ID: 13072015FB-1

Date Collected: 07/13/15 13:40
Date Received: 07/13/15 18:20

Lab Sample ID: 440-115033-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/16/15 17:30	1
Benzene	ND		0.50		ug/L			07/16/15 17:30	1
Bromobenzene	ND		1.0		ug/L			07/16/15 17:30	1
Bromochloromethane	ND		1.0		ug/L			07/16/15 17:30	1
Bromodichloromethane	ND		1.0		ug/L			07/16/15 17:30	1
Bromoform	ND		1.0		ug/L			07/16/15 17:30	1
Bromomethane	ND		2.0		ug/L			07/16/15 17:30	1
1,3-Butadiene	ND		1.0		ug/L			07/16/15 17:30	1
2-Butanone (MEK)	ND		10		ug/L			07/16/15 17:30	1
Carbon disulfide	ND		2.0		ug/L			07/16/15 17:30	1
Carbon tetrachloride	ND		1.0		ug/L			07/16/15 17:30	1
Chlorobenzene	ND		1.0		ug/L			07/16/15 17:30	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/16/15 17:30	1
Chloroethane	ND		1.0		ug/L			07/16/15 17:30	1
Chloroform	ND		1.0		ug/L			07/16/15 17:30	1
Chloromethane	ND		1.0		ug/L			07/16/15 17:30	1
2-Chlorotoluene	ND		2.0		ug/L			07/16/15 17:30	1
4-Chlorotoluene	ND		2.0		ug/L			07/16/15 17:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/16/15 17:30	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/16/15 17:30	1
Dibromochloromethane	ND		1.0		ug/L			07/16/15 17:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/16/15 17:30	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/16/15 17:30	1
Dibromomethane	ND		1.0		ug/L			07/16/15 17:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/16/15 17:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/16/15 17:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/16/15 17:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/16/15 17:30	1
1,1-Dichloroethane	ND		1.0		ug/L			07/16/15 17:30	1
1,2-Dichloroethane	ND		0.50		ug/L			07/16/15 17:30	1
1,1-Dichloroethene	ND		1.0		ug/L			07/16/15 17:30	1
1,2-Dichloropropane	ND		1.0		ug/L			07/16/15 17:30	1
1,3-Dichloropropane	ND		1.0		ug/L			07/16/15 17:30	1
2,2-Dichloropropane	ND		1.0		ug/L			07/16/15 17:30	1
1,1-Dichloropropene	ND		1.0		ug/L			07/16/15 17:30	1
Ethylbenzene	ND		1.0		ug/L			07/16/15 17:30	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/16/15 17:30	1
Hexachlorobutadiene	ND		2.0		ug/L			07/16/15 17:30	1
2-Hexanone	ND		10		ug/L			07/16/15 17:30	1
Isopropylbenzene	ND		1.0		ug/L			07/16/15 17:30	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/16/15 17:30	1
Methylene Chloride	ND		5.0		ug/L			07/16/15 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/16/15 17:30	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/16/15 17:30	1
m,p-Xylene	ND		1.0		ug/L			07/16/15 17:30	1
Naphthalene	ND		5.0		ug/L			07/16/15 17:30	1
n-Butylbenzene	ND		2.0		ug/L			07/16/15 17:30	1
N-Propylbenzene	ND		2.0		ug/L			07/16/15 17:30	1
o-Xylene	ND		1.0		ug/L			07/16/15 17:30	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Client Sample ID: 13072015FB-1

Date Collected: 07/13/15 13:40
Date Received: 07/13/15 18:20

Lab Sample ID: 440-115033-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0		ug/L			07/16/15 17:30	1
sec-Butylbenzene	ND		2.0		ug/L			07/16/15 17:30	1
Styrene	ND		1.0		ug/L			07/16/15 17:30	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/16/15 17:30	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/16/15 17:30	1
tert-Butylbenzene	ND		2.0		ug/L			07/16/15 17:30	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/16/15 17:30	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/16/15 17:30	1
Tetrachloroethene	ND		1.0		ug/L			07/16/15 17:30	1
Toluene	ND		1.0		ug/L			07/16/15 17:30	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/16/15 17:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/16/15 17:30	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/16/15 17:30	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/16/15 17:30	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/16/15 17:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/16/15 17:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/16/15 17:30	1
Trichloroethene	ND		1.0		ug/L			07/16/15 17:30	1
Trichlorofluoromethane	ND		1.0		ug/L			07/16/15 17:30	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/16/15 17:30	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/16/15 17:30	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/16/15 17:30	1
Vinyl chloride	ND		0.50		ug/L			07/16/15 17:30	1
Xylenes, Total	ND		2.0		ug/L			07/16/15 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*07/16/15 17:30*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*07/16/15 17:30*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/16/15 17:30*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/17/15 02:48	1

Method Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
314.0 LL	Perchlorate (IC)	EPA	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Client Sample ID: 13072015TB-1 — Lab Sample ID: 440-115033-1

Date Collected: 07/13/15 10:15 — **Matrix: Water**
Date Received: 07/13/15 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267243	07/16/15 10:08	TN	TAL IRV

Client Sample ID: EMW-01A-470-GW-13072015 — Lab Sample ID: 440-115033-2

Date Collected: 07/13/15 10:40 — **Matrix: Water**
Date Received: 07/13/15 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267243	07/16/15 16:02	TN	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		267260	07/17/15 01:55	CH	TAL IRV

Client Sample ID: EMW-01B-556-GW-13072015 — Lab Sample ID: 440-115033-3

Date Collected: 07/13/15 11:15 — **Matrix: Water**
Date Received: 07/13/15 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267243	07/16/15 16:31	TN	TAL IRV
Total/NA	Analysis	314.0 LL		10	1 mL		267570	07/17/15 12:17	CH	TAL IRV

Client Sample ID: 13072015D-1 — Lab Sample ID: 440-115033-4

Date Collected: 07/13/15 00:01 — **Matrix: Water**
Date Received: 07/13/15 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267243	07/16/15 17:01	TN	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		267570	07/17/15 12:34	CH	TAL IRV

Client Sample ID: 13072015FB-1 — Lab Sample ID: 440-115033-5

Date Collected: 07/13/15 13:40 — **Matrix: Water**
Date Received: 07/13/15 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267243	07/16/15 17:30	TN	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		267260	07/17/15 02:48	CH	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-267243/4
Matrix: Water
Analysis Batch: 267243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/16/15 08:16	1
Benzene	1.31		0.50		ug/L			07/16/15 08:16	1
Bromobenzene	ND		1.0		ug/L			07/16/15 08:16	1
Bromochloromethane	ND		1.0		ug/L			07/16/15 08:16	1
Bromodichloromethane	ND		1.0		ug/L			07/16/15 08:16	1
Bromoform	ND		1.0		ug/L			07/16/15 08:16	1
Bromomethane	ND		2.0		ug/L			07/16/15 08:16	1
1,3-Butadiene	ND		1.0		ug/L			07/16/15 08:16	1
2-Butanone (MEK)	ND		10		ug/L			07/16/15 08:16	1
Carbon disulfide	ND		2.0		ug/L			07/16/15 08:16	1
Carbon tetrachloride	ND		1.0		ug/L			07/16/15 08:16	1
Chlorobenzene	ND		1.0		ug/L			07/16/15 08:16	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/16/15 08:16	1
Chloroethane	ND		1.0		ug/L			07/16/15 08:16	1
Chloroform	ND		1.0		ug/L			07/16/15 08:16	1
Chloromethane	ND		1.0		ug/L			07/16/15 08:16	1
2-Chlorotoluene	ND		2.0		ug/L			07/16/15 08:16	1
4-Chlorotoluene	ND		2.0		ug/L			07/16/15 08:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/16/15 08:16	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/16/15 08:16	1
Dibromochloromethane	ND		1.0		ug/L			07/16/15 08:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/16/15 08:16	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/16/15 08:16	1
Dibromomethane	ND		1.0		ug/L			07/16/15 08:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/16/15 08:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/16/15 08:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/16/15 08:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/16/15 08:16	1
1,1-Dichloroethane	ND		1.0		ug/L			07/16/15 08:16	1
1,2-Dichloroethane	ND		0.50		ug/L			07/16/15 08:16	1
1,1-Dichloroethene	ND		1.0		ug/L			07/16/15 08:16	1
1,2-Dichloropropane	ND		1.0		ug/L			07/16/15 08:16	1
1,3-Dichloropropane	ND		1.0		ug/L			07/16/15 08:16	1
2,2-Dichloropropane	ND		1.0		ug/L			07/16/15 08:16	1
1,1-Dichloropropene	ND		1.0		ug/L			07/16/15 08:16	1
Ethylbenzene	ND		1.0		ug/L			07/16/15 08:16	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/16/15 08:16	1
Hexachlorobutadiene	ND		2.0		ug/L			07/16/15 08:16	1
2-Hexanone	ND		10		ug/L			07/16/15 08:16	1
Isopropylbenzene	ND		1.0		ug/L			07/16/15 08:16	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/16/15 08:16	1
Methylene Chloride	ND		5.0		ug/L			07/16/15 08:16	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/16/15 08:16	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/16/15 08:16	1
m,p-Xylene	ND		1.0		ug/L			07/16/15 08:16	1
Naphthalene	ND		5.0		ug/L			07/16/15 08:16	1
n-Butylbenzene	ND		2.0		ug/L			07/16/15 08:16	1
N-Propylbenzene	ND		2.0		ug/L			07/16/15 08:16	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-267243/4
Matrix: Water
Analysis Batch: 267243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			07/16/15 08:16	1
p-Isopropyltoluene	ND		2.0		ug/L			07/16/15 08:16	1
sec-Butylbenzene	ND		2.0		ug/L			07/16/15 08:16	1
Styrene	ND		1.0		ug/L			07/16/15 08:16	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/16/15 08:16	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/16/15 08:16	1
tert-Butylbenzene	ND		2.0		ug/L			07/16/15 08:16	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/16/15 08:16	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/16/15 08:16	1
Tetrachloroethene	ND		1.0		ug/L			07/16/15 08:16	1
Toluene	ND		1.0		ug/L			07/16/15 08:16	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/16/15 08:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/16/15 08:16	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/16/15 08:16	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/16/15 08:16	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/16/15 08:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/16/15 08:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/16/15 08:16	1
Trichloroethene	ND		1.0		ug/L			07/16/15 08:16	1
Trichlorofluoromethane	ND		1.0		ug/L			07/16/15 08:16	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/16/15 08:16	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/16/15 08:16	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/16/15 08:16	1
Vinyl chloride	ND		0.50		ug/L			07/16/15 08:16	1
Xylenes, Total	ND		2.0		ug/L			07/16/15 08:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*07/16/15 08:16*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*07/16/15 08:16*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/16/15 08:16*	*1*

Lab Sample ID: LCS 440-267243/5
Matrix: Water
Analysis Batch: 267243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	21.4		ug/L		86	10 - 150
Benzene	25.0	25.2		ug/L		101	68 - 130
Bromobenzene	25.0	24.2		ug/L		97	70 - 130
Bromochloromethane	25.0	25.7		ug/L		103	70 - 130
Bromodichloromethane	25.0	24.6		ug/L		98	70 - 132
Bromoform	25.0	25.6		ug/L		103	60 - 148
Bromomethane	25.0	23.5		ug/L		94	64 - 139
2-Butanone (MEK)	25.0	22.8		ug/L		91	44 - 150
Carbon disulfide	25.0	24.5		ug/L		98	52 - 136
Carbon tetrachloride	25.0	24.9		ug/L		100	60 - 150
Chlorobenzene	25.0	24.3		ug/L		97	70 - 130
Chloroethane	25.0	22.4		ug/L		90	64 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-267243/5
Matrix: Water
Analysis Batch: 267243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	24.4		ug/L		98	70 - 130
Chloromethane	25.0	24.0		ug/L		96	47 - 140
2-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130
4-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 133
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 133
Dibromochloromethane	25.0	26.1		ug/L		104	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	22.6		ug/L		90	52 - 140
1,2-Dibromoethane (EDB)	25.0	24.7		ug/L		99	70 - 130
Dibromomethane	25.0	23.7		ug/L		95	70 - 130
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
Dichlorodifluoromethane	25.0	22.6		ug/L		90	29 - 150
1,1-Dichloroethane	25.0	23.8		ug/L		95	64 - 130
1,2-Dichloroethane	25.0	23.4		ug/L		94	57 - 138
1,1-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
1,2-Dichloropropane	25.0	24.7		ug/L		99	67 - 130
1,3-Dichloropropane	25.0	24.0		ug/L		96	70 - 130
2,2-Dichloropropane	25.0	24.1		ug/L		96	68 - 141
1,1-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
Ethylbenzene	25.0	23.9		ug/L		95	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	27.0		ug/L		108	60 - 136
Hexachlorobutadiene	25.0	25.2		ug/L		101	10 - 150
2-Hexanone	25.0	21.3		ug/L		85	10 - 150
Isopropylbenzene	25.0	24.9		ug/L		100	70 - 136
Isopropyl Ether (DIPE)	25.0	25.2		ug/L		101	58 - 139
Methylene Chloride	25.0	25.2		ug/L		101	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	20.9		ug/L		83	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	24.9		ug/L		100	63 - 131
m,p-Xylene	25.0	25.9		ug/L		104	70 - 130
Naphthalene	25.0	25.6		ug/L		102	60 - 140
n-Butylbenzene	25.0	23.9		ug/L		95	65 - 150
N-Propylbenzene	25.0	23.4		ug/L		94	67 - 139
o-Xylene	25.0	25.3		ug/L		101	70 - 130
p-Isopropyltoluene	25.0	23.9		ug/L		96	70 - 132
sec-Butylbenzene	25.0	23.1		ug/L		93	70 - 138
Styrene	25.0	26.4		ug/L		105	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	27.1		ug/L		109	57 - 139
tert-Butyl alcohol (TBA)	250	247		ug/L		99	70 - 130
tert-Butylbenzene	25.0	24.3		ug/L		97	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	60 - 141
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		88	63 - 130
Tetrachloroethene	25.0	25.0		ug/L		100	70 - 130
Toluene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	25.6		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 132
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-267243/5
Matrix: Water
Analysis Batch: 267243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	26.6		ug/L		106	60 - 140
1,1,1-Trichloroethane	25.0	23.9		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	70 - 130
Trichloroethene	25.0	26.0		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	22.7		ug/L		91	60 - 150
1,2,3-Trichloropropane	25.0	22.3		ug/L		89	63 - 130
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 135
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 136
Vinyl chloride	25.0	23.4		ug/L		94	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: 440-115148-A-1 MS
Matrix: Water
Analysis Batch: 267243

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	ND		ug/L		75	10 - 150
Benzene	ND		25.0	26.6		ug/L		106	66 - 130
Bromobenzene	ND		25.0	25.9		ug/L		104	70 - 130
Bromochloromethane	ND		25.0	26.2		ug/L		105	70 - 130
Bromodichloromethane	ND		25.0	26.2		ug/L		105	70 - 138
Bromoform	ND		25.0	26.0		ug/L		104	59 - 150
Bromomethane	ND		25.0	23.9		ug/L		96	62 - 131
2-Butanone (MEK)	ND		25.0	19.4		ug/L		78	48 - 140
Carbon disulfide	ND		25.0	26.3		ug/L		105	49 - 140
Carbon tetrachloride	ND		25.0	26.9		ug/L		108	60 - 150
Chlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
Chloroethane	ND		25.0	23.4		ug/L		94	68 - 130
Chloroform	ND		25.0	27.3		ug/L		107	70 - 130
Chloromethane	ND		25.0	26.3		ug/L		105	39 - 144
2-Chlorotoluene	ND		25.0	25.2		ug/L		101	70 - 130
4-Chlorotoluene	ND		25.0	25.6		ug/L		102	70 - 130
cis-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	70 - 130
cis-1,3-Dichloropropene	ND		25.0	26.8		ug/L		107	70 - 133
Dibromochloromethane	ND		25.0	26.6		ug/L		106	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	22.0		ug/L		88	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	24.9		ug/L		99	70 - 131
Dibromomethane	ND		25.0	24.8		ug/L		99	70 - 130
1,2-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130
Dichlorodifluoromethane	ND		25.0	25.1		ug/L		100	25 - 142
1,1-Dichloroethane	ND		25.0	25.4		ug/L		102	65 - 130
1,2-Dichloroethane	ND		25.0	24.4		ug/L		97	56 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115148-A-1 MS
Matrix: Water
Analysis Batch: 267243

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		25.0	26.6		ug/L		106	70 - 130
1,2-Dichloropropane	ND		25.0	26.8		ug/L		107	69 - 130
1,3-Dichloropropane	ND		25.0	24.3		ug/L		97	70 - 130
2,2-Dichloropropane	ND		25.0	26.0		ug/L		104	69 - 138
1,1-Dichloropropene	ND		25.0	25.6		ug/L		103	64 - 130
Ethylbenzene	ND		25.0	25.6		ug/L		102	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	28.3		ug/L		113	70 - 130
Hexachlorobutadiene	ND		25.0	27.4		ug/L		109	10 - 150
2-Hexanone	ND		25.0	20.5		ug/L		82	10 - 150
Isopropylbenzene	ND		25.0	26.9		ug/L		107	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	27.5		ug/L		110	64 - 138
Methylene Chloride	ND		25.0	25.5		ug/L		102	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.2		ug/L		85	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.9		ug/L		104	70 - 130
m,p-Xylene	ND		25.0	27.6		ug/L		110	70 - 133
Naphthalene	ND		25.0	25.6		ug/L		102	60 - 140
n-Butylbenzene	ND		25.0	26.0		ug/L		104	61 - 149
N-Propylbenzene	ND		25.0	25.5		ug/L		102	66 - 135
o-Xylene	ND		25.0	27.4		ug/L		110	70 - 133
p-Isopropyltoluene	ND		25.0	25.6		ug/L		102	70 - 130
sec-Butylbenzene	ND		25.0	25.7		ug/L		103	67 - 134
Styrene	ND		25.0	23.3		ug/L		93	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	27.5		ug/L		110	68 - 133
tert-Butyl alcohol (TBA)	ND		250	284		ug/L		114	70 - 130
tert-Butylbenzene	ND		25.0	26.5		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	27.1		ug/L		108	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	22.8		ug/L		91	63 - 130
Tetrachloroethene	72	F1	25.0	92.9		ug/L		85	70 - 137
Toluene	ND		25.0	25.8		ug/L		103	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.3		ug/L		109	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	27.4		ug/L		109	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	28.3		ug/L		113	60 - 140
1,1,1-Trichloroethane	ND		25.0	26.1		ug/L		105	70 - 130
1,1,2-Trichloroethane	ND		25.0	24.0		ug/L		96	70 - 130
Trichloroethene	ND		25.0	28.1		ug/L		112	70 - 130
Trichlorofluoromethane	ND		25.0	24.2		ug/L		97	60 - 150
1,2,3-Trichloropropane	ND		25.0	22.6		ug/L		91	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	25.4		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	26.3		ug/L		105	70 - 130
Vinyl chloride	ND		25.0	26.0		ug/L		104	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*106*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115148-A-1 MSD
Matrix: Water
Analysis Batch: 267243

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	20.1		ug/L		80	10 - 150	7	35
Benzene	ND		25.0	25.6		ug/L		103	66 - 130	4	20
Bromobenzene	ND		25.0	25.2		ug/L		101	70 - 130	3	20
Bromochloromethane	ND		25.0	27.1		ug/L		109	70 - 130	3	25
Bromodichloromethane	ND		25.0	26.3		ug/L		105	70 - 138	1	20
Bromoform	ND		25.0	26.8		ug/L		107	59 - 150	3	25
Bromomethane	ND		25.0	23.2		ug/L		93	62 - 131	3	25
2-Butanone (MEK)	ND		25.0	21.8		ug/L		87	48 - 140	11	40
Carbon disulfide	ND		25.0	25.0		ug/L		100	49 - 140	5	20
Carbon tetrachloride	ND		25.0	25.7		ug/L		103	60 - 150	4	25
Chlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130	6	20
Chloroethane	ND		25.0	22.2		ug/L		89	68 - 130	6	25
Chloroform	ND		25.0	25.9		ug/L		102	70 - 130	5	20
Chloromethane	ND		25.0	25.1		ug/L		100	39 - 144	5	25
2-Chlorotoluene	ND		25.0	24.2		ug/L		97	70 - 130	4	20
4-Chlorotoluene	ND		25.0	24.6		ug/L		98	70 - 130	4	20
cis-1,2-Dichloroethene	ND		25.0	25.9		ug/L		104	70 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	25.8		ug/L		103	70 - 133	4	20
Dibromochloromethane	ND		25.0	26.1		ug/L		104	70 - 148	2	25
1,2-Dibromo-3-Chloropropane	ND		25.0	23.5		ug/L		94	48 - 140	7	30
1,2-Dibromoethane (EDB)	ND		25.0	24.1		ug/L		96	70 - 131	3	25
Dibromomethane	ND		25.0	25.1		ug/L		101	70 - 130	1	25
1,2-Dichlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130	4	20
1,3-Dichlorobenzene	ND		25.0	24.6		ug/L		99	70 - 130	4	20
1,4-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130	3	20
Dichlorodifluoromethane	ND		25.0	23.3		ug/L		93	25 - 142	7	30
1,1-Dichloroethane	ND		25.0	24.7		ug/L		99	65 - 130	3	20
1,2-Dichloroethane	ND		25.0	25.1		ug/L		100	56 - 146	3	20
1,1-Dichloroethene	ND		25.0	24.8		ug/L		99	70 - 130	7	20
1,2-Dichloropropane	ND		25.0	25.9		ug/L		104	69 - 130	3	20
1,3-Dichloropropane	ND		25.0	23.5		ug/L		94	70 - 130	3	25
2,2-Dichloropropane	ND		25.0	24.5		ug/L		98	69 - 138	6	25
1,1-Dichloropropene	ND		25.0	24.4		ug/L		98	64 - 130	5	20
Ethylbenzene	ND		25.0	23.9		ug/L		95	70 - 130	7	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	28.5		ug/L		114	70 - 130	1	25
Hexachlorobutadiene	ND		25.0	25.9		ug/L		104	10 - 150	5	20
2-Hexanone	ND		25.0	20.5		ug/L		82	10 - 150	0	35
Isopropylbenzene	ND		25.0	25.0		ug/L		100	70 - 132	7	20
Isopropyl Ether (DIPE)	ND		25.0	27.3		ug/L		109	64 - 138	1	25
Methylene Chloride	ND		25.0	25.5		ug/L		102	52 - 130	0	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.4		ug/L		85	52 - 150	1	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.8		ug/L		103	70 - 130	0	25
m,p-Xylene	ND		25.0	25.6		ug/L		102	70 - 133	8	25
Naphthalene	ND		25.0	25.5		ug/L		102	60 - 140	0	30
n-Butylbenzene	ND		25.0	24.6		ug/L		98	61 - 149	6	20
N-Propylbenzene	ND		25.0	23.9		ug/L		96	66 - 135	6	20
o-Xylene	ND		25.0	25.4		ug/L		102	70 - 133	8	20
p-Isopropyltoluene	ND		25.0	24.0		ug/L		96	70 - 130	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115148-A-1 MSD
Matrix: Water
Analysis Batch: 267243

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	23.7		ug/L		95	67 - 134	8	20
Styrene	ND		25.0	20.8		ug/L		83	29 - 150	12	35
Tert-amyl-methyl ether (TAME)	ND		25.0	28.1		ug/L		112	68 - 133	2	30
tert-Butyl alcohol (TBA)	ND		250	249		ug/L		100	70 - 130	13	25
tert-Butylbenzene	ND		25.0	24.6		ug/L		99	70 - 130	7	20
1,1,1,2-Tetrachloroethane	ND		25.0	25.9		ug/L		104	60 - 149	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	22.7		ug/L		91	63 - 130	0	30
Tetrachloroethene	72	F1	25.0	87.7	F1	ug/L		64	70 - 137	6	20
Toluene	ND		25.0	24.0		ug/L		96	70 - 130	7	20
trans-1,2-Dichloroethene	ND		25.0	25.9		ug/L		104	70 - 130	5	20
trans-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	70 - 138	4	25
1,2,3-Trichlorobenzene	ND		25.0	27.2		ug/L		109	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		25.0	27.2		ug/L		109	60 - 140	4	20
1,1,1-Trichloroethane	ND		25.0	24.7		ug/L		99	70 - 130	6	20
1,1,2-Trichloroethane	ND		25.0	23.8		ug/L		95	70 - 130	1	25
Trichloroethene	ND		25.0	26.6		ug/L		107	70 - 130	5	20
Trichlorofluoromethane	ND		25.0	23.2		ug/L		93	60 - 150	4	25
1,2,3-Trichloropropane	ND		25.0	23.0		ug/L		92	60 - 130	2	30
1,2,4-Trimethylbenzene	ND		25.0	23.8		ug/L		95	70 - 130	6	25
1,3,5-Trimethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130	6	20
Vinyl chloride	ND		25.0	24.2		ug/L		97	50 - 137	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 440-267260/39
Matrix: Water
Analysis Batch: 267260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/16/15 19:40	1

Lab Sample ID: LCS 440-267260/40
Matrix: Water
Analysis Batch: 267260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	26.3		ug/L		105	85 - 115		

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 440-267260/12 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267260

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.38		ug/L		110	75 - 125

Lab Sample ID: 440-115187-H-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	27.2		ug/L		109	80 - 120

Lab Sample ID: 440-115187-H-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267260

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	26.8		ug/L		107	80 - 120	1	20

Lab Sample ID: MB 440-267570/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267570

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/17/15 08:19	1

Lab Sample ID: LCS 440-267570/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	26.4		ug/L		106	85 - 115

Lab Sample ID: MRL 440-267570/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267570

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.38		ug/L		109	75 - 125

Lab Sample ID: 440-115189-A-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	25.6		ug/L		102	80 - 120

Lab Sample ID: 440-115189-A-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	25.6		ug/L		103	80 - 120	0	20

QC Association Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

GC/MS VOA

Analysis Batch: 267243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115033-1	13072015TB-1	Total/NA	Water	8260B	
440-115033-2	EMW-01A-470-GW-13072015	Total/NA	Water	8260B	
440-115033-3	EMW-01B-556-GW-13072015	Total/NA	Water	8260B	
440-115033-4	13072015D-1	Total/NA	Water	8260B	
440-115033-5	13072015FB-1	Total/NA	Water	8260B	
440-115148-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-115148-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-267243/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-267243/4	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 267260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115033-2	EMW-01A-470-GW-13072015	Total/NA	Water	314.0 LL	
440-115033-5	13072015FB-1	Total/NA	Water	314.0 LL	
440-115187-H-1 MS	Matrix Spike	Total/NA	Water	314.0 LL	
440-115187-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
LCS 440-267260/40	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-267260/39	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-267260/12	Lab Control Sample	Total/NA	Water	314.0 LL	

Analysis Batch: 267570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115033-3	EMW-01B-556-GW-13072015	Total/NA	Water	314.0 LL	
440-115033-4	13072015D-1	Total/NA	Water	314.0 LL	
440-115189-A-1 MS	Matrix Spike	Total/NA	Water	314.0 LL	
440-115189-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
LCS 440-267570/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-267570/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-267570/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115033-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16

* Certification renewal pending - certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

068532

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Rebecca Mora/Holly Holbrook	Site Contact: Holly Holbrook	Date: 07/13/2015	COC No:
Company Name: AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
Address: 999 W. Town & Country Rd	Analysis Turnaround Time			Sampler: Thinh Hoang / Kevin Thompson
City/State/Zip: Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 714-689-7215	TAT if different from Below _____			Walk-in Client:
Fax: —	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich, Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
PO# 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs (8260B-LL)	Perchlorate (314.0-LL)	Sample Specific Notes:
13072015TB-1	7-13-15	1015		W	3	N	N	X		
EMW-01A-470-GW-13072015	7/13/15	1040		W	4	N	N	X	X	
EMW-01B-556-GW-13072015	7/13/15	1115		W	4	N	N	X	X	
13072015D-1	7/13/15	—		W	4	N	N	X	X	
13072015FB-1	7/13/15	1340		W	4	N	N	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 12 1

440-115033 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.7 Corr'd: 4.7 | Therm ID No.: #74

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Blaine tech	07/13/15 1530	Nicole	Blaine Tech	7/13/15 1530
Nicole	Blaine Tech	7/13/15 1630	[signature]	TA	7/13/15 1630
[signature]	TA 7/13/15	1820	Received in Laboratory by: [signature]	TA	07/13/15 18:20

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-115033-1

Login Number: 115033
List Number: 1
Creator: Blocker, Kristina M

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-115378-1
Client Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0
Revision: 1

For:
AECOM, Inc.
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Holly Holbrook

Authorized for release by:
7/29/2015 11:34:51 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

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Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-115378-1	15072015TB-1	Water	07/15/15 10:00	07/15/15 17:30
440-115378-2	PW-6B-GW-15072015	Water	07/15/15 13:15	07/15/15 17:30
440-115378-3	PW-6C-GW-15072015	Water	07/15/15 12:45	07/15/15 17:30
440-115378-4	PW-6D-GW-15072015	Water	07/15/15 12:25	07/15/15 17:30
440-115378-5	PW-6E-GW-15072015	Water	07/15/15 11:50	07/15/15 17:30
440-115378-6	15072015D-1	Water	07/15/15 00:01	07/15/15 17:30
440-115378-7	15072015EB-1	Water	07/15/15 13:00	07/15/15 17:30

Case Narrative

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Job ID: 440-115378-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-115378-1

Comments
This report was revised to correct the EPA 8260B-VOC analyte list.

Receipt
The samples were received on 7/15/2015 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Client Sample ID: 15072015TB-1

Date Collected: 07/15/15 10:00
Date Received: 07/15/15 17:30

Lab Sample ID: 440-115378-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/20/15 14:26	1
Benzene	ND		0.50		ug/L			07/20/15 14:26	1
Bromobenzene	ND		1.0		ug/L			07/20/15 14:26	1
Bromochloromethane	ND		1.0		ug/L			07/20/15 14:26	1
Bromodichloromethane	ND		1.0		ug/L			07/20/15 14:26	1
Bromoform	ND		1.0		ug/L			07/20/15 14:26	1
Bromomethane	ND		2.0		ug/L			07/20/15 14:26	1
1,3-Butadiene	ND		1.0		ug/L			07/20/15 14:26	1
2-Butanone (MEK)	ND		10		ug/L			07/20/15 14:26	1
Carbon disulfide	ND		2.0		ug/L			07/20/15 14:26	1
Carbon tetrachloride	ND		1.0		ug/L			07/20/15 14:26	1
Chlorobenzene	ND		1.0		ug/L			07/20/15 14:26	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/20/15 14:26	1
Chloroethane	ND		1.0		ug/L			07/20/15 14:26	1
Chloroform	ND		1.0		ug/L			07/20/15 14:26	1
Chloromethane	ND		1.0		ug/L			07/20/15 14:26	1
2-Chlorotoluene	ND		2.0		ug/L			07/20/15 14:26	1
4-Chlorotoluene	ND		2.0		ug/L			07/20/15 14:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/20/15 14:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/20/15 14:26	1
Dibromochloromethane	ND		1.0		ug/L			07/20/15 14:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/20/15 14:26	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/20/15 14:26	1
Dibromomethane	ND		1.0		ug/L			07/20/15 14:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/20/15 14:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/20/15 14:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/20/15 14:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/20/15 14:26	1
1,1-Dichloroethane	ND		1.0		ug/L			07/20/15 14:26	1
1,2-Dichloroethane	ND		0.50		ug/L			07/20/15 14:26	1
1,1-Dichloroethene	ND		1.0		ug/L			07/20/15 14:26	1
1,2-Dichloropropane	ND		1.0		ug/L			07/20/15 14:26	1
1,3-Dichloropropane	ND		1.0		ug/L			07/20/15 14:26	1
2,2-Dichloropropane	ND		1.0		ug/L			07/20/15 14:26	1
1,1-Dichloropropene	ND		1.0		ug/L			07/20/15 14:26	1
Ethylbenzene	ND		1.0		ug/L			07/20/15 14:26	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/20/15 14:26	1
Hexachlorobutadiene	ND		2.0		ug/L			07/20/15 14:26	1
2-Hexanone	ND		10		ug/L			07/20/15 14:26	1
Isopropylbenzene	ND		1.0		ug/L			07/20/15 14:26	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/20/15 14:26	1
Methylene Chloride	ND		5.0		ug/L			07/20/15 14:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/20/15 14:26	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/20/15 14:26	1
m,p-Xylene	ND		1.0		ug/L			07/20/15 14:26	1
Naphthalene	ND		5.0		ug/L			07/20/15 14:26	1
n-Butylbenzene	ND		2.0		ug/L			07/20/15 14:26	1
N-Propylbenzene	ND		2.0		ug/L			07/20/15 14:26	1
o-Xylene	ND		1.0		ug/L			07/20/15 14:26	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Client Sample ID: 15072015TB-1

Lab Sample ID: 440-115378-1
Date Collected: 07/15/15 10:00
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/20/15 14:26	1
sec-Butylbenzene	ND		2.0	ug/L			07/20/15 14:26	1
Styrene	ND		1.0	ug/L			07/20/15 14:26	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/20/15 14:26	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/20/15 14:26	1
tert-Butylbenzene	ND		2.0	ug/L			07/20/15 14:26	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/20/15 14:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/20/15 14:26	1
Tetrachloroethene	ND		1.0	ug/L			07/20/15 14:26	1
Toluene	ND		1.0	ug/L			07/20/15 14:26	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/20/15 14:26	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 14:26	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 14:26	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/20/15 14:26	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/20/15 14:26	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/20/15 14:26	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/20/15 14:26	1
Trichloroethene	ND		1.0	ug/L			07/20/15 14:26	1
Trichlorofluoromethane	ND		1.0	ug/L			07/20/15 14:26	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/20/15 14:26	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/20/15 14:26	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/20/15 14:26	1
Vinyl chloride	ND		0.50	ug/L			07/20/15 14:26	1
Xylenes, Total	ND		2.0	ug/L			07/20/15 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/20/15 14:26*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*07/20/15 14:26*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*07/20/15 14:26*	*1*

Client Sample ID: PW-6B-GW-15072015

Lab Sample ID: 440-115378-2
Date Collected: 07/15/15 13:15
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/20/15 11:41	1
Benzene	ND		0.50	ug/L			07/20/15 11:41	1
Bromobenzene	ND		1.0	ug/L			07/20/15 11:41	1
Bromochloromethane	ND		1.0	ug/L			07/20/15 11:41	1
Bromodichloromethane	ND		1.0	ug/L			07/20/15 11:41	1
Bromoform	ND		1.0	ug/L			07/20/15 11:41	1
Bromomethane	ND		2.0	ug/L			07/20/15 11:41	1
1,3-Butadiene	ND		1.0	ug/L			07/20/15 11:41	1
2-Butanone (MEK)	ND		10	ug/L			07/20/15 11:41	1
Carbon disulfide	ND		2.0	ug/L			07/20/15 11:41	1
Carbon tetrachloride	ND		1.0	ug/L			07/20/15 11:41	1
Chlorobenzene	ND		1.0	ug/L			07/20/15 11:41	1
Chloroethane	ND		1.0	ug/L			07/20/15 11:41	1
Chloroform	ND		1.0	ug/L			07/20/15 11:41	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Client Sample ID: PW-6B-GW-15072015

Lab Sample ID: 440-115378-2
Date Collected: 07/15/15 13:15
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	ug/L			07/20/15 11:41	1
2-Chlorotoluene	ND		2.0	ug/L			07/20/15 11:41	1
4-Chlorotoluene	ND		2.0	ug/L			07/20/15 11:41	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 11:41	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 11:41	1
Dibromochloromethane	ND		1.0	ug/L			07/20/15 11:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/20/15 11:41	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/20/15 11:41	1
Dibromomethane	ND		1.0	ug/L			07/20/15 11:41	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/20/15 11:41	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/20/15 11:41	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/20/15 11:41	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/20/15 11:41	1
1,1-Dichloroethane	ND		1.0	ug/L			07/20/15 11:41	1
1,2-Dichloroethane	ND		0.50	ug/L			07/20/15 11:41	1
1,1-Dichloroethene	ND		1.0	ug/L			07/20/15 11:41	1
1,2-Dichloropropane	ND		1.0	ug/L			07/20/15 11:41	1
1,3-Dichloropropane	ND		1.0	ug/L			07/20/15 11:41	1
2,2-Dichloropropane	ND		1.0	ug/L			07/20/15 11:41	1
1,1-Dichloropropene	ND		1.0	ug/L			07/20/15 11:41	1
Ethylbenzene	ND		1.0	ug/L			07/20/15 11:41	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/20/15 11:41	1
Hexachlorobutadiene	ND		2.0	ug/L			07/20/15 11:41	1
2-Hexanone	ND		10	ug/L			07/20/15 11:41	1
Isopropylbenzene	ND		1.0	ug/L			07/20/15 11:41	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/20/15 11:41	1
Methylene Chloride	ND		5.0	ug/L			07/20/15 11:41	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/20/15 11:41	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/20/15 11:41	1
m,p-Xylene	ND		1.0	ug/L			07/20/15 11:41	1
Naphthalene	ND		5.0	ug/L			07/20/15 11:41	1
n-Butylbenzene	ND		2.0	ug/L			07/20/15 11:41	1
N-Propylbenzene	ND		2.0	ug/L			07/20/15 11:41	1
o-Xylene	ND		1.0	ug/L			07/20/15 11:41	1
p-Isopropyltoluene	ND		2.0	ug/L			07/20/15 11:41	1
sec-Butylbenzene	ND		2.0	ug/L			07/20/15 11:41	1
Styrene	ND		1.0	ug/L			07/20/15 11:41	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/20/15 11:41	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/20/15 11:41	1
tert-Butylbenzene	ND		2.0	ug/L			07/20/15 11:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/20/15 11:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/20/15 11:41	1
Tetrachloroethene	ND		1.0	ug/L			07/20/15 11:41	1
Toluene	ND		1.0	ug/L			07/20/15 11:41	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/20/15 11:41	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 11:41	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 11:41	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/20/15 11:41	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/20/15 11:41	1

Client Sample ID: PW-6B-GW-15072015

Lab Sample ID: 440-115378-2
Date Collected: 07/15/15 13:15
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	ug/L			07/20/15 11:41	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/20/15 11:41	1
Trichloroethene	**3.9**		1.0	ug/L			07/20/15 11:41	1
Trichlorofluoromethane	ND		1.0	ug/L			07/20/15 11:41	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/20/15 11:41	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/20/15 11:41	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/20/15 11:41	1
Vinyl chloride	ND		0.50	ug/L			07/20/15 11:41	1
Xylenes, Total	ND		2.0	ug/L			07/20/15 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/20/15 11:41*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*07/20/15 11:41*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/20/15 11:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/21/15 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/21/15 02:15*	*1*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*07/21/15 02:15*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/21/15 02:15*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**140**		6.0	ug/L			07/21/15 23:33	2

Client Sample ID: PW-6C-GW-15072015

Lab Sample ID: 440-115378-3
Date Collected: 07/15/15 12:45
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/20/15 12:09	1
Benzene	ND		0.50	ug/L			07/20/15 12:09	1
Bromobenzene	ND		1.0	ug/L			07/20/15 12:09	1
Bromochloromethane	ND		1.0	ug/L			07/20/15 12:09	1
Bromodichloromethane	ND		1.0	ug/L			07/20/15 12:09	1
Bromoform	ND		1.0	ug/L			07/20/15 12:09	1
Bromomethane	ND		2.0	ug/L			07/20/15 12:09	1
1,3-Butadiene	ND		1.0	ug/L			07/20/15 12:09	1
2-Butanone (MEK)	ND		10	ug/L			07/20/15 12:09	1
Carbon disulfide	ND		2.0	ug/L			07/20/15 12:09	1
Carbon tetrachloride	ND		1.0	ug/L			07/20/15 12:09	1
Chlorobenzene	ND		1.0	ug/L			07/20/15 12:09	1
Chloroethane	ND		1.0	ug/L			07/20/15 12:09	1
Chloroform	ND		1.0	ug/L			07/20/15 12:09	1
Chloromethane	ND		1.0	ug/L			07/20/15 12:09	1
2-Chlorotoluene	ND		2.0	ug/L			07/20/15 12:09	1
4-Chlorotoluene	ND		2.0	ug/L			07/20/15 12:09	1

Client Sample ID: PW-6C-GW-15072015

Lab Sample ID: 440-115378-3

Date Collected: 07/15/15 12:45

Matrix: Water

Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 12:09	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 12:09	1
Dibromochloromethane	ND		1.0	ug/L			07/20/15 12:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/20/15 12:09	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/20/15 12:09	1
Dibromomethane	ND		1.0	ug/L			07/20/15 12:09	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/20/15 12:09	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/20/15 12:09	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/20/15 12:09	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/20/15 12:09	1
1,1-Dichloroethane	ND		1.0	ug/L			07/20/15 12:09	1
1,2-Dichloroethane	ND		0.50	ug/L			07/20/15 12:09	1
1,1-Dichloroethene	ND		1.0	ug/L			07/20/15 12:09	1
1,2-Dichloropropane	ND		1.0	ug/L			07/20/15 12:09	1
1,3-Dichloropropane	ND		1.0	ug/L			07/20/15 12:09	1
2,2-Dichloropropane	ND		1.0	ug/L			07/20/15 12:09	1
1,1-Dichloropropene	ND		1.0	ug/L			07/20/15 12:09	1
Ethylbenzene	ND		1.0	ug/L			07/20/15 12:09	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/20/15 12:09	1
Hexachlorobutadiene	ND		2.0	ug/L			07/20/15 12:09	1
2-Hexanone	ND		10	ug/L			07/20/15 12:09	1
Isopropylbenzene	ND		1.0	ug/L			07/20/15 12:09	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/20/15 12:09	1
Methylene Chloride	ND		5.0	ug/L			07/20/15 12:09	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/20/15 12:09	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/20/15 12:09	1
m,p-Xylene	ND		1.0	ug/L			07/20/15 12:09	1
Naphthalene	ND		5.0	ug/L			07/20/15 12:09	1
n-Butylbenzene	ND		2.0	ug/L			07/20/15 12:09	1
N-Propylbenzene	ND		2.0	ug/L			07/20/15 12:09	1
o-Xylene	ND		1.0	ug/L			07/20/15 12:09	1
p-Isopropyltoluene	ND		2.0	ug/L			07/20/15 12:09	1
sec-Butylbenzene	ND		2.0	ug/L			07/20/15 12:09	1
Styrene	ND		1.0	ug/L			07/20/15 12:09	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/20/15 12:09	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/20/15 12:09	1
tert-Butylbenzene	ND		2.0	ug/L			07/20/15 12:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/20/15 12:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/20/15 12:09	1
Tetrachloroethene	ND		1.0	ug/L			07/20/15 12:09	1
Toluene	ND		1.0	ug/L			07/20/15 12:09	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/20/15 12:09	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 12:09	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 12:09	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/20/15 12:09	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/20/15 12:09	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/20/15 12:09	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/20/15 12:09	1
Trichloroethene	**6.2**		1.0	ug/L			07/20/15 12:09	1

Client Sample ID: PW-6C-GW-15072015

Lab Sample ID: 440-115378-3
Date Collected: 07/15/15 12:45
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	ug/L			07/20/15 12:09	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/20/15 12:09	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/20/15 12:09	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/20/15 12:09	1
Vinyl chloride	ND		0.50	ug/L			07/20/15 12:09	1
Xylenes, Total	ND		2.0	ug/L			07/20/15 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/20/15 12:09*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*07/20/15 12:09*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/20/15 12:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/21/15 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/21/15 02:42*	*1*
Dibromofluoromethane (Surr)	*117*		*76 - 132*		*07/21/15 02:42*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/21/15 02:42*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**84**		3.0	ug/L			07/21/15 23:50	1

Client Sample ID: PW-6D-GW-15072015

Lab Sample ID: 440-115378-4
Date Collected: 07/15/15 12:25
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/20/15 12:35	1
Benzene	ND		0.50	ug/L			07/20/15 12:35	1
Bromobenzene	ND		1.0	ug/L			07/20/15 12:35	1
Bromochloromethane	ND		1.0	ug/L			07/20/15 12:35	1
Bromodichloromethane	ND		1.0	ug/L			07/20/15 12:35	1
Bromoform	ND		1.0	ug/L			07/20/15 12:35	1
Bromomethane	ND		2.0	ug/L			07/20/15 12:35	1
1,3-Butadiene	ND		1.0	ug/L			07/20/15 12:35	1
2-Butanone (MEK)	ND		10	ug/L			07/20/15 12:35	1
Carbon disulfide	ND		2.0	ug/L			07/20/15 12:35	1
Carbon tetrachloride	ND		1.0	ug/L			07/20/15 12:35	1
Chlorobenzene	ND		1.0	ug/L			07/20/15 12:35	1
Chloroethane	ND		1.0	ug/L			07/20/15 12:35	1
Chloroform	ND		1.0	ug/L			07/20/15 12:35	1
Chloromethane	ND		1.0	ug/L			07/20/15 12:35	1
2-Chlorotoluene	ND		2.0	ug/L			07/20/15 12:35	1
4-Chlorotoluene	ND		2.0	ug/L			07/20/15 12:35	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 12:35	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 12:35	1
Dibromochloromethane	ND		1.0	ug/L			07/20/15 12:35	1

Client Sample ID: PW-6D-GW-15072015

Lab Sample ID: 440-115378-4

Date Collected: 07/15/15 12:25

Matrix: Water

Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/20/15 12:35	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/20/15 12:35	1
Dibromomethane	ND		1.0		ug/L			07/20/15 12:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/20/15 12:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/20/15 12:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/20/15 12:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/20/15 12:35	1
1,1-Dichloroethane	ND		1.0		ug/L			07/20/15 12:35	1
1,2-Dichloroethane	ND		0.50		ug/L			07/20/15 12:35	1
1,1-Dichloroethene	ND		1.0		ug/L			07/20/15 12:35	1
1,2-Dichloropropane	ND		1.0		ug/L			07/20/15 12:35	1
1,3-Dichloropropane	ND		1.0		ug/L			07/20/15 12:35	1
2,2-Dichloropropane	ND		1.0		ug/L			07/20/15 12:35	1
1,1-Dichloropropene	ND		1.0		ug/L			07/20/15 12:35	1
Ethylbenzene	ND		1.0		ug/L			07/20/15 12:35	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/20/15 12:35	1
Hexachlorobutadiene	ND		2.0		ug/L			07/20/15 12:35	1
2-Hexanone	ND		10		ug/L			07/20/15 12:35	1
Isopropylbenzene	ND		1.0		ug/L			07/20/15 12:35	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/20/15 12:35	1
Methylene Chloride	ND		5.0		ug/L			07/20/15 12:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/20/15 12:35	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/20/15 12:35	1
m,p-Xylene	ND		1.0		ug/L			07/20/15 12:35	1
Naphthalene	ND		5.0		ug/L			07/20/15 12:35	1
n-Butylbenzene	ND		2.0		ug/L			07/20/15 12:35	1
N-Propylbenzene	ND		2.0		ug/L			07/20/15 12:35	1
o-Xylene	ND		1.0		ug/L			07/20/15 12:35	1
p-Isopropyltoluene	ND		2.0		ug/L			07/20/15 12:35	1
sec-Butylbenzene	ND		2.0		ug/L			07/20/15 12:35	1
Styrene	ND		1.0		ug/L			07/20/15 12:35	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/20/15 12:35	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/20/15 12:35	1
tert-Butylbenzene	ND		2.0		ug/L			07/20/15 12:35	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/20/15 12:35	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/20/15 12:35	1
Tetrachloroethene	ND		1.0		ug/L			07/20/15 12:35	1
Toluene	ND		1.0		ug/L			07/20/15 12:35	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/20/15 12:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/15 12:35	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/20/15 12:35	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/20/15 12:35	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/20/15 12:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/20/15 12:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/20/15 12:35	1
Trichloroethene	**16**		1.0		ug/L			07/20/15 12:35	1
Trichlorofluoromethane	ND		1.0		ug/L			07/20/15 12:35	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/20/15 12:35	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/20/15 12:35	1

Client Sample ID: PW-6D-GW-15072015

Lab Sample ID: 440-115378-4

Date Collected: 07/15/15 12:25
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/20/15 12:35	1
Vinyl chloride	ND		0.50	ug/L			07/20/15 12:35	1
Xylenes, Total	ND		2.0	ug/L			07/20/15 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/20/15 12:35*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*07/20/15 12:35*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/20/15 12:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/21/15 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/21/15 03:09*	*1*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*07/21/15 03:09*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/21/15 03:09*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**430**		30	ug/L			07/22/15 10:05	10

Client Sample ID: PW-6E-GW-15072015

Lab Sample ID: 440-115378-5

Date Collected: 07/15/15 11:50
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/20/15 09:50	1
Benzene	ND		0.50	ug/L			07/20/15 09:50	1
Bromobenzene	ND		1.0	ug/L			07/20/15 09:50	1
Bromochloromethane	ND		1.0	ug/L			07/20/15 09:50	1
Bromodichloromethane	ND		1.0	ug/L			07/20/15 09:50	1
Bromoform	ND		1.0	ug/L			07/20/15 09:50	1
Bromomethane	ND		2.0	ug/L			07/20/15 09:50	1
1,3-Butadiene	ND		1.0	ug/L			07/20/15 09:50	1
2-Butanone (MEK)	ND		10	ug/L			07/20/15 09:50	1
Carbon disulfide	ND		2.0	ug/L			07/20/15 09:50	1
Carbon tetrachloride	ND		1.0	ug/L			07/20/15 09:50	1
Chlorobenzene	ND		1.0	ug/L			07/20/15 09:50	1
Chloroethane	ND		1.0	ug/L			07/20/15 09:50	1
Chloroform	ND		1.0	ug/L			07/20/15 09:50	1
Chloromethane	ND		1.0	ug/L			07/20/15 09:50	1
2-Chlorotoluene	ND		2.0	ug/L			07/20/15 09:50	1
4-Chlorotoluene	ND		2.0	ug/L			07/20/15 09:50	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 09:50	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 09:50	1
Dibromochloromethane	ND		1.0	ug/L			07/20/15 09:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/20/15 09:50	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/20/15 09:50	1
Dibromomethane	ND		1.0	ug/L			07/20/15 09:50	1

Client Sample ID: PW-6E-GW-15072015

Lab Sample ID: 440-115378-5

Date Collected: 07/15/15 11:50

Matrix: Water

Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0		ug/L			07/20/15 09:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/20/15 09:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/20/15 09:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/20/15 09:50	1
1,1-Dichloroethane	ND		1.0		ug/L			07/20/15 09:50	1
1,2-Dichloroethane	ND		0.50		ug/L			07/20/15 09:50	1
1,1-Dichloroethene	ND		1.0		ug/L			07/20/15 09:50	1
1,2-Dichloropropane	ND		1.0		ug/L			07/20/15 09:50	1
1,3-Dichloropropane	ND		1.0		ug/L			07/20/15 09:50	1
2,2-Dichloropropane	ND		1.0		ug/L			07/20/15 09:50	1
1,1-Dichloropropene	ND		1.0		ug/L			07/20/15 09:50	1
Ethylbenzene	ND		1.0		ug/L			07/20/15 09:50	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/20/15 09:50	1
Hexachlorobutadiene	ND		2.0		ug/L			07/20/15 09:50	1
2-Hexanone	ND		10		ug/L			07/20/15 09:50	1
Isopropylbenzene	ND		1.0		ug/L			07/20/15 09:50	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/20/15 09:50	1
Methylene Chloride	ND		5.0		ug/L			07/20/15 09:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/20/15 09:50	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/20/15 09:50	1
m,p-Xylene	ND		1.0		ug/L			07/20/15 09:50	1
Naphthalene	ND		5.0		ug/L			07/20/15 09:50	1
n-Butylbenzene	ND		2.0		ug/L			07/20/15 09:50	1
N-Propylbenzene	ND		2.0		ug/L			07/20/15 09:50	1
o-Xylene	ND		1.0		ug/L			07/20/15 09:50	1
p-Isopropyltoluene	ND		2.0		ug/L			07/20/15 09:50	1
sec-Butylbenzene	ND		2.0		ug/L			07/20/15 09:50	1
Styrene	ND		1.0		ug/L			07/20/15 09:50	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/20/15 09:50	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/20/15 09:50	1
tert-Butylbenzene	ND		2.0		ug/L			07/20/15 09:50	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/20/15 09:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/20/15 09:50	1
Tetrachloroethene	ND		1.0		ug/L			07/20/15 09:50	1
Toluene	ND		1.0		ug/L			07/20/15 09:50	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/20/15 09:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/15 09:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/20/15 09:50	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/20/15 09:50	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/20/15 09:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/20/15 09:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/20/15 09:50	1
Trichloroethene	ND		1.0		ug/L			07/20/15 09:50	1
Trichlorofluoromethane	ND		1.0		ug/L			07/20/15 09:50	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/20/15 09:50	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/20/15 09:50	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/20/15 09:50	1
Vinyl chloride	ND		0.50		ug/L			07/20/15 09:50	1
Xylenes, Total	ND		2.0		ug/L			07/20/15 09:50	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Client Sample ID: PW-6E-GW-15072015

Lab Sample ID: 440-115378-5
Date Collected: 07/15/15 11:50
Matrix: Water
Date Received: 07/15/15 17:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*07/20/15 09:50*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*07/20/15 09:50*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*07/20/15 09:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/21/15 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/21/15 03:36*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*07/21/15 03:36*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*07/21/15 03:36*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/22/15 00:08	1

Client Sample ID: 15072015D-1

Lab Sample ID: 440-115378-6
Date Collected: 07/15/15 00:01
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/20/15 13:03	1
Benzene	ND		0.50	ug/L			07/20/15 13:03	1
Bromobenzene	ND		1.0	ug/L			07/20/15 13:03	1
Bromochloromethane	ND		1.0	ug/L			07/20/15 13:03	1
Bromodichloromethane	ND		1.0	ug/L			07/20/15 13:03	1
Bromoform	ND		1.0	ug/L			07/20/15 13:03	1
Bromomethane	ND		2.0	ug/L			07/20/15 13:03	1
1,3-Butadiene	ND		1.0	ug/L			07/20/15 13:03	1
2-Butanone (MEK)	ND		10	ug/L			07/20/15 13:03	1
Carbon disulfide	ND		2.0	ug/L			07/20/15 13:03	1
Carbon tetrachloride	ND		1.0	ug/L			07/20/15 13:03	1
Chlorobenzene	ND		1.0	ug/L			07/20/15 13:03	1
Chloroethane	ND		1.0	ug/L			07/20/15 13:03	1
Chloroform	ND		1.0	ug/L			07/20/15 13:03	1
Chloromethane	ND		1.0	ug/L			07/20/15 13:03	1
2-Chlorotoluene	ND		2.0	ug/L			07/20/15 13:03	1
4-Chlorotoluene	ND		2.0	ug/L			07/20/15 13:03	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 13:03	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 13:03	1
Dibromochloromethane	ND		1.0	ug/L			07/20/15 13:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/20/15 13:03	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/20/15 13:03	1
Dibromomethane	ND		1.0	ug/L			07/20/15 13:03	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/20/15 13:03	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/20/15 13:03	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/20/15 13:03	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/20/15 13:03	1
1,1-Dichloroethane	ND		1.0	ug/L			07/20/15 13:03	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Client Sample ID: 15072015D-1

Date Collected: 07/15/15 00:01
Date Received: 07/15/15 17:30

Lab Sample ID: 440-115378-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.50	ug/L			07/20/15 13:03	1
1,1-Dichloroethene	ND		1.0	ug/L			07/20/15 13:03	1
1,2-Dichloropropane	ND		1.0	ug/L			07/20/15 13:03	1
1,3-Dichloropropane	ND		1.0	ug/L			07/20/15 13:03	1
2,2-Dichloropropane	ND		1.0	ug/L			07/20/15 13:03	1
1,1-Dichloropropene	ND		1.0	ug/L			07/20/15 13:03	1
Ethylbenzene	ND		1.0	ug/L			07/20/15 13:03	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/20/15 13:03	1
Hexachlorobutadiene	ND		2.0	ug/L			07/20/15 13:03	1
2-Hexanone	ND		10	ug/L			07/20/15 13:03	1
Isopropylbenzene	ND		1.0	ug/L			07/20/15 13:03	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/20/15 13:03	1
Methylene Chloride	ND		5.0	ug/L			07/20/15 13:03	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/20/15 13:03	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/20/15 13:03	1
m,p-Xylene	ND		1.0	ug/L			07/20/15 13:03	1
Naphthalene	ND		5.0	ug/L			07/20/15 13:03	1
n-Butylbenzene	ND		2.0	ug/L			07/20/15 13:03	1
N-Propylbenzene	ND		2.0	ug/L			07/20/15 13:03	1
o-Xylene	ND		1.0	ug/L			07/20/15 13:03	1
p-Isopropyltoluene	ND		2.0	ug/L			07/20/15 13:03	1
sec-Butylbenzene	ND		2.0	ug/L			07/20/15 13:03	1
Styrene	ND		1.0	ug/L			07/20/15 13:03	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/20/15 13:03	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/20/15 13:03	1
tert-Butylbenzene	ND		2.0	ug/L			07/20/15 13:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/20/15 13:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/20/15 13:03	1
Tetrachloroethene	ND		1.0	ug/L			07/20/15 13:03	1
Toluene	ND		1.0	ug/L			07/20/15 13:03	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/20/15 13:03	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 13:03	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 13:03	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/20/15 13:03	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/20/15 13:03	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/20/15 13:03	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/20/15 13:03	1
Trichloroethene	**5.8**		1.0	ug/L			07/20/15 13:03	1
Trichlorofluoromethane	ND		1.0	ug/L			07/20/15 13:03	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/20/15 13:03	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/20/15 13:03	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/20/15 13:03	1
Vinyl chloride	ND		0.50	ug/L			07/20/15 13:03	1
Xylenes, Total	ND		2.0	ug/L			07/20/15 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/20/15 13:03*	*1*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*07/20/15 13:03*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/20/15 13:03*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Client Sample ID: 15072015D-1

Lab Sample ID: 440-115378-6
Date Collected: 07/15/15 00:01
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/21/15 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/21/15 04:03*	*1*
Dibromofluoromethane (Surr)	*118*		*76 - 132*		*07/21/15 04:03*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/21/15 04:03*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**84**		3.0	ug/L			07/22/15 00:26	1

Client Sample ID: 15072015EB-1

Lab Sample ID: 440-115378-7
Date Collected: 07/15/15 13:00
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/20/15 13:30	1
Benzene	ND		0.50	ug/L			07/20/15 13:30	1
Bromobenzene	ND		1.0	ug/L			07/20/15 13:30	1
Bromochloromethane	ND		1.0	ug/L			07/20/15 13:30	1
Bromodichloromethane	ND		1.0	ug/L			07/20/15 13:30	1
Bromoform	ND		1.0	ug/L			07/20/15 13:30	1
Bromomethane	ND		2.0	ug/L			07/20/15 13:30	1
1,3-Butadiene	ND		1.0	ug/L			07/20/15 13:30	1
2-Butanone (MEK)	ND		10	ug/L			07/20/15 13:30	1
Carbon disulfide	ND		2.0	ug/L			07/20/15 13:30	1
Carbon tetrachloride	ND		1.0	ug/L			07/20/15 13:30	1
Chlorobenzene	ND		1.0	ug/L			07/20/15 13:30	1
Chloroethane	ND		1.0	ug/L			07/20/15 13:30	1
Chloroform	ND		1.0	ug/L			07/20/15 13:30	1
Chloromethane	ND		1.0	ug/L			07/20/15 13:30	1
2-Chlorotoluene	ND		2.0	ug/L			07/20/15 13:30	1
4-Chlorotoluene	ND		2.0	ug/L			07/20/15 13:30	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 13:30	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 13:30	1
Dibromochloromethane	ND		1.0	ug/L			07/20/15 13:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/20/15 13:30	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/20/15 13:30	1
Dibromomethane	ND		1.0	ug/L			07/20/15 13:30	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/20/15 13:30	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/20/15 13:30	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/20/15 13:30	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/20/15 13:30	1
1,1-Dichloroethane	ND		1.0	ug/L			07/20/15 13:30	1
1,2-Dichloroethane	ND		0.50	ug/L			07/20/15 13:30	1
1,1-Dichloroethene	ND		1.0	ug/L			07/20/15 13:30	1
1,2-Dichloropropane	ND		1.0	ug/L			07/20/15 13:30	1
1,3-Dichloropropane	ND		1.0	ug/L			07/20/15 13:30	1
2,2-Dichloropropane	ND		1.0	ug/L			07/20/15 13:30	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Client Sample ID: 15072015EB-1

Lab Sample ID: 440-115378-7

Date Collected: 07/15/15 13:00
Matrix: Water
Date Received: 07/15/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0	ug/L			07/20/15 13:30	1
Ethylbenzene	ND		1.0	ug/L			07/20/15 13:30	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/20/15 13:30	1
Hexachlorobutadiene	ND		2.0	ug/L			07/20/15 13:30	1
2-Hexanone	ND		10	ug/L			07/20/15 13:30	1
Isopropylbenzene	ND		1.0	ug/L			07/20/15 13:30	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/20/15 13:30	1
Methylene Chloride	ND		5.0	ug/L			07/20/15 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/20/15 13:30	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/20/15 13:30	1
m,p-Xylene	ND		1.0	ug/L			07/20/15 13:30	1
Naphthalene	ND		5.0	ug/L			07/20/15 13:30	1
n-Butylbenzene	ND		2.0	ug/L			07/20/15 13:30	1
N-Propylbenzene	ND		2.0	ug/L			07/20/15 13:30	1
o-Xylene	ND		1.0	ug/L			07/20/15 13:30	1
p-Isopropyltoluene	ND		2.0	ug/L			07/20/15 13:30	1
sec-Butylbenzene	ND		2.0	ug/L			07/20/15 13:30	1
Styrene	ND		1.0	ug/L			07/20/15 13:30	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/20/15 13:30	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/20/15 13:30	1
tert-Butylbenzene	ND		2.0	ug/L			07/20/15 13:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/20/15 13:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/20/15 13:30	1
Tetrachloroethene	ND		1.0	ug/L			07/20/15 13:30	1
Toluene	ND		1.0	ug/L			07/20/15 13:30	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/20/15 13:30	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/20/15 13:30	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/20/15 13:30	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/20/15 13:30	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/20/15 13:30	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/20/15 13:30	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/20/15 13:30	1
Trichloroethene	ND		1.0	ug/L			07/20/15 13:30	1
Trichlorofluoromethane	ND		1.0	ug/L			07/20/15 13:30	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/20/15 13:30	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/20/15 13:30	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/20/15 13:30	1
Vinyl chloride	ND		0.50	ug/L			07/20/15 13:30	1
Xylenes, Total	ND		2.0	ug/L			07/20/15 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/20/15 13:30*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*07/20/15 13:30*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*07/20/15 13:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/21/15 04:30	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Client Sample ID: 15072015EB-1

Date Collected: 07/15/15 13:00
Date Received: 07/15/15 17:30

Lab Sample ID: 440-115378-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/21/15 04:30*	*1*
Dibromofluoromethane (Surr)	*118*		*76 - 132*		*07/21/15 04:30*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/21/15 04:30*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/22/15 00:44	1

Method Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
314.0 LL	Perchlorate (IC)	EPA	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Client Sample ID: 15072015TB-1 — Lab Sample ID: 440-115378-1

Date Collected: 07/15/15 10:00 — **Matrix: Water**
Date Received: 07/15/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267896	07/20/15 14:26	SS	TAL IRV

Client Sample ID: PW-6B-GW-15072015 — Lab Sample ID: 440-115378-2

Date Collected: 07/15/15 13:15 — **Matrix: Water**
Date Received: 07/15/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267896	07/20/15 11:41	SS	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	268072	07/21/15 02:15	MP	TAL IRV
Total/NA	Analysis	314.0 LL		2	1 mL		268177	07/21/15 23:33	CH	TAL IRV

Client Sample ID: PW-6C-GW-15072015 — Lab Sample ID: 440-115378-3

Date Collected: 07/15/15 12:45 — **Matrix: Water**
Date Received: 07/15/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267896	07/20/15 12:09	SS	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	268072	07/21/15 02:42	MP	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL	1.0 mL	268177	07/21/15 23:50	CH	TAL IRV

Client Sample ID: PW-6D-GW-15072015 — Lab Sample ID: 440-115378-4

Date Collected: 07/15/15 12:25 — **Matrix: Water**
Date Received: 07/15/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267896	07/20/15 12:35	SS	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	268072	07/21/15 03:09	MP	TAL IRV
Total/NA	Analysis	314.0 LL		10	1 mL		268436	07/22/15 10:05	CH	TAL IRV

Client Sample ID: PW-6E-GW-15072015 — Lab Sample ID: 440-115378-5

Date Collected: 07/15/15 11:50 — **Matrix: Water**
Date Received: 07/15/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267896	07/20/15 09:50	SS	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	268072	07/21/15 03:36	MP	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268177	07/22/15 00:08	CH	TAL IRV

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Client Sample ID: 15072015D-1

Lab Sample ID: 440-115378-6

Date Collected: 07/15/15 00:01
Matrix: Water
Date Received: 07/15/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267896	07/20/15 13:03	SS	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	268072	07/21/15 04:03	MP	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL	1.0 mL	268177	07/22/15 00:26	CH	TAL IRV

Client Sample ID: 15072015EB-1

Lab Sample ID: 440-115378-7

Date Collected: 07/15/15 13:00
Matrix: Water
Date Received: 07/15/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	267896	07/20/15 13:30	SS	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	268072	07/21/15 04:30	MP	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268177	07/22/15 00:44	CH	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-267896/4
Matrix: Water
Analysis Batch: 267896

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/20/15 07:45	1
Benzene	ND		0.50		ug/L			07/20/15 07:45	1
Bromobenzene	ND		1.0		ug/L			07/20/15 07:45	1
Bromochloromethane	ND		1.0		ug/L			07/20/15 07:45	1
Bromodichloromethane	ND		1.0		ug/L			07/20/15 07:45	1
Bromoform	ND		1.0		ug/L			07/20/15 07:45	1
Bromomethane	ND		2.0		ug/L			07/20/15 07:45	1
1,3-Butadiene	ND		1.0		ug/L			07/20/15 07:45	1
2-Butanone (MEK)	ND		10		ug/L			07/20/15 07:45	1
Carbon disulfide	ND		2.0		ug/L			07/20/15 07:45	1
Carbon tetrachloride	ND		1.0		ug/L			07/20/15 07:45	1
Chlorobenzene	ND		1.0		ug/L			07/20/15 07:45	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/20/15 07:45	1
Chloroethane	ND		1.0		ug/L			07/20/15 07:45	1
Chloroform	ND		1.0		ug/L			07/20/15 07:45	1
Chloromethane	ND		1.0		ug/L			07/20/15 07:45	1
2-Chlorotoluene	ND		2.0		ug/L			07/20/15 07:45	1
4-Chlorotoluene	ND		2.0		ug/L			07/20/15 07:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/20/15 07:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/20/15 07:45	1
Dibromochloromethane	ND		1.0		ug/L			07/20/15 07:45	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/20/15 07:45	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/20/15 07:45	1
Dibromomethane	ND		1.0		ug/L			07/20/15 07:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/20/15 07:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/20/15 07:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/20/15 07:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/20/15 07:45	1
1,1-Dichloroethane	ND		1.0		ug/L			07/20/15 07:45	1
1,2-Dichloroethane	ND		0.50		ug/L			07/20/15 07:45	1
1,1-Dichloroethene	ND		1.0		ug/L			07/20/15 07:45	1
1,2-Dichloropropane	ND		1.0		ug/L			07/20/15 07:45	1
1,3-Dichloropropane	ND		1.0		ug/L			07/20/15 07:45	1
2,2-Dichloropropane	ND		1.0		ug/L			07/20/15 07:45	1
1,1-Dichloropropene	ND		1.0		ug/L			07/20/15 07:45	1
Ethylbenzene	ND		1.0		ug/L			07/20/15 07:45	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/20/15 07:45	1
Hexachlorobutadiene	ND		2.0		ug/L			07/20/15 07:45	1
2-Hexanone	ND		10		ug/L			07/20/15 07:45	1
Isopropylbenzene	ND		1.0		ug/L			07/20/15 07:45	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/20/15 07:45	1
Methylene Chloride	ND		5.0		ug/L			07/20/15 07:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/20/15 07:45	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/20/15 07:45	1
m,p-Xylene	ND		1.0		ug/L			07/20/15 07:45	1
Naphthalene	ND		5.0		ug/L			07/20/15 07:45	1
n-Butylbenzene	ND		2.0		ug/L			07/20/15 07:45	1
N-Propylbenzene	ND		2.0		ug/L			07/20/15 07:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-267896/4
Matrix: Water
Analysis Batch: 267896

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			07/20/15 07:45	1
p-Isopropyltoluene	ND		2.0		ug/L			07/20/15 07:45	1
sec-Butylbenzene	ND		2.0		ug/L			07/20/15 07:45	1
Styrene	ND		1.0		ug/L			07/20/15 07:45	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/20/15 07:45	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/20/15 07:45	1
tert-Butylbenzene	ND		2.0		ug/L			07/20/15 07:45	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/20/15 07:45	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/20/15 07:45	1
Tetrachloroethene	ND		1.0		ug/L			07/20/15 07:45	1
Toluene	ND		1.0		ug/L			07/20/15 07:45	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/20/15 07:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/15 07:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/20/15 07:45	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/20/15 07:45	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/20/15 07:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/20/15 07:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/20/15 07:45	1
Trichloroethene	ND		1.0		ug/L			07/20/15 07:45	1
Trichlorofluoromethane	ND		1.0		ug/L			07/20/15 07:45	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/20/15 07:45	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/20/15 07:45	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/20/15 07:45	1
Vinyl chloride	ND		0.50		ug/L			07/20/15 07:45	1
Xylenes, Total	ND		2.0		ug/L			07/20/15 07:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*07/20/15 07:45*	*1*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*07/20/15 07:45*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/20/15 07:45*	*1*

Lab Sample ID: LCS 440-267896/5
Matrix: Water
Analysis Batch: 267896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	22.6		ug/L		91	10 - 150
Benzene	25.0	26.0		ug/L		104	68 - 130
Bromobenzene	25.0	26.4		ug/L		106	70 - 130
Bromochloromethane	25.0	28.0		ug/L		112	70 - 130
Bromodichloromethane	25.0	27.7		ug/L		111	70 - 132
Bromoform	25.0	28.1		ug/L		112	60 - 148
Bromomethane	25.0	28.5		ug/L		114	64 - 139
2-Butanone (MEK)	25.0	24.1		ug/L		96	44 - 150
Carbon disulfide	25.0	26.2		ug/L		105	52 - 136
Carbon tetrachloride	25.0	27.1		ug/L		108	60 - 150
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130
Chloroethane	25.0	27.0		ug/L		108	64 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-267896/5
Matrix: Water
Analysis Batch: 267896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	26.9		ug/L		108	70 - 130
Chloromethane	25.0	27.6		ug/L		110	47 - 140
2-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	70 - 133
cis-1,3-Dichloropropene	25.0	27.4		ug/L		110	70 - 133
Dibromochloromethane	25.0	26.8		ug/L		107	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	26.2		ug/L		105	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.6		ug/L		110	70 - 130
Dibromomethane	25.0	26.3		ug/L		105	70 - 130
1,2-Dichlorobenzene	25.0	26.9		ug/L		108	70 - 130
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
Dichlorodifluoromethane	25.0	24.8		ug/L		99	29 - 150
1,1-Dichloroethane	25.0	26.0		ug/L		104	64 - 130
1,2-Dichloroethane	25.0	26.7		ug/L		107	57 - 138
1,1-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
1,2-Dichloropropane	25.0	26.3		ug/L		105	67 - 130
1,3-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
2,2-Dichloropropane	25.0	26.9		ug/L		108	68 - 141
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
Ethylbenzene	25.0	25.0		ug/L		100	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	28.1		ug/L		112	60 - 136
Hexachlorobutadiene	25.0	27.6		ug/L		110	10 - 150
2-Hexanone	25.0	24.0		ug/L		96	10 - 150
Isopropylbenzene	25.0	26.1		ug/L		104	70 - 136
Isopropyl Ether (DIPE)	25.0	28.2		ug/L		113	58 - 139
Methylene Chloride	25.0	30.1		ug/L		120	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	25.5		ug/L		102	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	26.4		ug/L		106	63 - 131
m,p-Xylene	25.0	26.3		ug/L		105	70 - 130
Naphthalene	25.0	26.0		ug/L		104	60 - 140
n-Butylbenzene	25.0	24.7		ug/L		99	65 - 150
N-Propylbenzene	25.0	24.8		ug/L		99	67 - 139
o-Xylene	25.0	24.5		ug/L		98	70 - 130
p-Isopropyltoluene	25.0	25.7		ug/L		103	70 - 132
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 138
Styrene	25.0	26.2		ug/L		105	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	27.8		ug/L		111	57 - 139
tert-Butyl alcohol (TBA)	250	256		ug/L		102	70 - 130
tert-Butylbenzene	25.0	26.0		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	60 - 141
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	63 - 130
Tetrachloroethene	25.0	26.5		ug/L		106	70 - 130
Toluene	25.0	25.5		ug/L		102	70 - 130
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 132
1,2,3-Trichlorobenzene	25.0	26.5		ug/L		106	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-267896/5
Matrix: Water
Analysis Batch: 267896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	27.5		ug/L		110	60 - 140
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	70 - 130
Trichloroethene	25.0	27.3		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	27.0		ug/L		108	60 - 150
1,2,3-Trichloropropane	25.0	25.4		ug/L		102	63 - 130
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 135
1,3,5-Trimethylbenzene	25.0	25.5		ug/L		102	70 - 136
Vinyl chloride	25.0	27.5		ug/L		110	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: 440-115378-5 MS
Matrix: Water
Analysis Batch: 267896

Client Sample ID: PW-6E-GW-15072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	23.1		ug/L		92	10 - 150
Benzene	ND		25.0	26.2		ug/L		105	66 - 130
Bromobenzene	ND		25.0	25.5		ug/L		102	70 - 130
Bromochloromethane	ND		25.0	28.2		ug/L		113	70 - 130
Bromodichloromethane	ND		25.0	27.9		ug/L		112	70 - 138
Bromoform	ND		25.0	25.9		ug/L		104	59 - 150
Bromomethane	ND		25.0	28.7		ug/L		115	62 - 131
2-Butanone (MEK)	ND		25.0	25.2		ug/L		101	48 - 140
Carbon disulfide	ND		25.0	26.5		ug/L		106	49 - 140
Carbon tetrachloride	ND		25.0	28.3		ug/L		113	60 - 150
Chlorobenzene	ND		25.0	24.5		ug/L		98	70 - 130
Chloroethane	ND		25.0	27.5		ug/L		110	68 - 130
Chloroform	ND		25.0	27.4		ug/L		110	70 - 130
Chloromethane	ND		25.0	28.8		ug/L		115	39 - 144
2-Chlorotoluene	ND		25.0	24.7		ug/L		99	70 - 130
4-Chlorotoluene	ND		25.0	25.4		ug/L		101	70 - 130
cis-1,2-Dichloroethene	ND		25.0	27.1		ug/L		108	70 - 130
cis-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	70 - 133
Dibromochloromethane	ND		25.0	25.8		ug/L		103	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	25.4		ug/L		102	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	26.4		ug/L		106	70 - 131
Dibromomethane	ND		25.0	27.1		ug/L		108	70 - 130
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130
Dichlorodifluoromethane	ND		25.0	26.0		ug/L		104	25 - 142
1,1-Dichloroethane	ND		25.0	26.1		ug/L		105	65 - 130
1,2-Dichloroethane	ND		25.0	26.9		ug/L		108	56 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115378-5 MS
Matrix: Water
Analysis Batch: 267896

Client Sample ID: PW-6E-GW-15072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		25.0	27.8		ug/L		111	70 - 130
1,2-Dichloropropane	ND		25.0	26.8		ug/L		107	69 - 130
1,3-Dichloropropane	ND		25.0	23.6		ug/L		94	70 - 130
2,2-Dichloropropane	ND		25.0	28.1		ug/L		112	69 - 138
1,1-Dichloropropene	ND		25.0	26.4		ug/L		106	64 - 130
Ethylbenzene	ND		25.0	24.4		ug/L		98	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	28.4		ug/L		114	70 - 130
Hexachlorobutadiene	ND		25.0	27.0		ug/L		108	10 - 150
2-Hexanone	ND		25.0	21.7		ug/L		87	10 - 150
Isopropylbenzene	ND		25.0	24.7		ug/L		99	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	28.3		ug/L		113	64 - 138
Methylene Chloride	ND		25.0	24.7		ug/L		99	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	24.1		ug/L		96	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	26.3		ug/L		105	70 - 130
m,p-Xylene	ND		25.0	24.2		ug/L		97	70 - 133
Naphthalene	ND		25.0	26.5		ug/L		106	60 - 140
n-Butylbenzene	ND		25.0	24.6		ug/L		98	61 - 149
N-Propylbenzene	ND		25.0	25.4		ug/L		102	66 - 135
o-Xylene	ND		25.0	23.2		ug/L		93	70 - 133
p-Isopropyltoluene	ND		25.0	25.5		ug/L		102	70 - 130
sec-Butylbenzene	ND		25.0	24.8		ug/L		99	67 - 134
Styrene	ND		25.0	25.0		ug/L		100	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	28.0		ug/L		112	68 - 133
tert-Butyl alcohol (TBA)	ND		250	259		ug/L		104	70 - 130
tert-Butylbenzene	ND		25.0	26.0		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	25.9		ug/L		104	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	25.1		ug/L		100	63 - 130
Tetrachloroethene	ND		25.0	25.6		ug/L		102	70 - 137
Toluene	ND		25.0	24.5		ug/L		98	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.8		ug/L		111	70 - 130
trans-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	26.4		ug/L		106	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.8		ug/L		107	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.0		ug/L		108	70 - 130
1,1,2-Trichloroethane	ND		25.0	24.5		ug/L		98	70 - 130
Trichloroethene	ND		25.0	28.3		ug/L		113	70 - 130
Trichlorofluoromethane	ND		25.0	28.0		ug/L		112	60 - 150
1,2,3-Trichloropropane	ND		25.0	24.3		ug/L		97	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	25.2		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	25.0		ug/L		100	70 - 130
Vinyl chloride	ND		25.0	27.7		ug/L		111	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*76 - 132*
Toluene-d8 (Surr)	*98*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115378-5 MSD
Matrix: Water
Analysis Batch: 267896

Client Sample ID: PW-6E-GW-15072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	26.3		ug/L		105	10 - 150	13	35
Benzene	ND		25.0	29.2		ug/L		117	66 - 130	11	20
Bromobenzene	ND		25.0	27.5		ug/L		110	70 - 130	8	20
Bromochloromethane	ND		25.0	31.8		ug/L		127	70 - 130	12	25
Bromodichloromethane	ND		25.0	29.9		ug/L		119	70 - 138	7	20
Bromoform	ND		25.0	30.3		ug/L		121	59 - 150	16	25
Bromomethane	ND		25.0	31.3		ug/L		125	62 - 131	9	25
2-Butanone (MEK)	ND		25.0	28.1		ug/L		112	48 - 140	11	40
Carbon disulfide	ND		25.0	29.2		ug/L		117	49 - 140	10	20
Carbon tetrachloride	ND		25.0	30.7		ug/L		123	60 - 150	8	25
Chlorobenzene	ND		25.0	27.7		ug/L		111	70 - 130	12	20
Chloroethane	ND		25.0	30.6		ug/L		122	68 - 130	11	25
Chloroform	ND		25.0	30.4		ug/L		121	70 - 130	10	20
Chloromethane	ND		25.0	30.7		ug/L		123	39 - 144	7	25
2-Chlorotoluene	ND		25.0	26.4		ug/L		106	70 - 130	6	20
4-Chlorotoluene	ND		25.0	27.0		ug/L		108	70 - 130	6	20
cis-1,2-Dichloroethene	ND		25.0	29.6		ug/L		118	70 - 130	9	20
cis-1,3-Dichloropropene	ND		25.0	29.4		ug/L		118	70 - 133	13	20
Dibromochloromethane	ND		25.0	29.4		ug/L		118	70 - 148	13	25
1,2-Dibromo-3-Chloropropane	ND		25.0	26.7		ug/L		107	48 - 140	5	30
1,2-Dibromoethane (EDB)	ND		25.0	31.0		ug/L		124	70 - 131	16	25
Dibromomethane	ND		25.0	31.4		ug/L		126	70 - 130	15	25
1,2-Dichlorobenzene	ND		25.0	28.3		ug/L		113	70 - 130	8	20
1,3-Dichlorobenzene	ND		25.0	28.1		ug/L		112	70 - 130	7	20
1,4-Dichlorobenzene	ND		25.0	27.6		ug/L		110	70 - 130	7	20
Dichlorodifluoromethane	ND		25.0	27.9		ug/L		111	25 - 142	7	30
1,1-Dichloroethane	ND		25.0	28.4		ug/L		114	65 - 130	8	20
1,2-Dichloroethane	ND		25.0	30.7		ug/L		123	56 - 146	13	20
1,1-Dichloroethene	ND		25.0	29.7		ug/L		119	70 - 130	7	20
1,2-Dichloropropane	ND		25.0	29.3		ug/L		117	69 - 130	9	20
1,3-Dichloropropane	ND		25.0	27.9		ug/L		112	70 - 130	17	25
2,2-Dichloropropane	ND		25.0	30.9		ug/L		124	69 - 138	10	25
1,1-Dichloropropene	ND		25.0	28.6		ug/L		115	64 - 130	8	20
Ethylbenzene	ND		25.0	27.7		ug/L		111	70 - 130	13	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	31.7		ug/L		127	70 - 130	11	25
Hexachlorobutadiene	ND		25.0	29.2		ug/L		117	10 - 150	8	20
2-Hexanone	ND		25.0	26.7		ug/L		107	10 - 150	21	35
Isopropylbenzene	ND		25.0	28.6		ug/L		115	70 - 132	15	20
Isopropyl Ether (DIPE)	ND		25.0	31.6		ug/L		127	64 - 138	11	25
Methylene Chloride	ND		25.0	28.2		ug/L		113	52 - 130	13	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	28.6		ug/L		114	52 - 150	17	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	29.8		ug/L		119	70 - 130	12	25
m,p-Xylene	ND		25.0	28.4		ug/L		114	70 - 133	16	25
Naphthalene	ND		25.0	28.7		ug/L		115	60 - 140	8	30
n-Butylbenzene	ND		25.0	26.2		ug/L		105	61 - 149	6	20
N-Propylbenzene	ND		25.0	27.0		ug/L		108	66 - 135	6	20
o-Xylene	ND		25.0	27.2		ug/L		109	70 - 133	16	20
p-Isopropyltoluene	ND		25.0	27.0		ug/L		108	70 - 130	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115378-5 MSD — **Client Sample ID: PW-6E-GW-15072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267896

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	26.9		ug/L		108	67 - 134	8	20
Styrene	ND		25.0	28.6		ug/L		115	29 - 150	14	35
Tert-amyl-methyl ether (TAME)	ND		25.0	31.0		ug/L		124	68 - 133	10	30
tert-Butyl alcohol (TBA)	ND		250	281		ug/L		112	70 - 130	8	25
tert-Butylbenzene	ND		25.0	27.8		ug/L		111	70 - 130	6	20
1,1,1,2-Tetrachloroethane	ND		25.0	29.2		ug/L		117	60 - 149	12	20
1,1,2,2-Tetrachloroethane	ND		25.0	27.6		ug/L		110	63 - 130	9	30
Tetrachloroethene	ND		25.0	29.7		ug/L		119	70 - 137	15	20
Toluene	ND		25.0	27.6		ug/L		110	70 - 130	12	20
trans-1,2-Dichloroethene	ND		25.0	31.0		ug/L		124	70 - 130	11	20
trans-1,3-Dichloropropene	ND		25.0	29.2		ug/L		117	70 - 138	17	25
1,2,3-Trichlorobenzene	ND		25.0	28.7		ug/L		115	60 - 140	8	20
1,2,4-Trichlorobenzene	ND		25.0	29.1		ug/L		117	60 - 140	8	20
1,1,1-Trichloroethane	ND		25.0	29.0		ug/L		116	70 - 130	7	20
1,1,2-Trichloroethane	ND		25.0	29.3		ug/L		117	70 - 130	18	25
Trichloroethene	ND		25.0	31.4		ug/L		126	70 - 130	10	20
Trichlorofluoromethane	ND		25.0	30.4		ug/L		121	60 - 150	8	25
1,2,3-Trichloropropane	ND		25.0	27.3		ug/L		109	60 - 130	11	30
1,2,4-Trimethylbenzene	ND		25.0	26.8		ug/L		107	70 - 130	6	25
1,3,5-Trimethylbenzene	ND		25.0	26.6		ug/L		107	70 - 130	6	20
Vinyl chloride	ND		25.0	30.7		ug/L		123	50 - 137	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: MB 440-268072/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268072

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/20/15 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/20/15 19:25*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*07/20/15 19:25*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*07/20/15 19:25*	*1*

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 440-268177/33 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268177

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/21/15 19:58	1

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: LCS 440-268177/34 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	24.8		ug/L		99	85 - 115

Lab Sample ID: MRL 440-268177/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268177

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	3.97		ug/L		99	75 - 125

Lab Sample ID: 550-47965-H-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268177

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	300	F1	2500	530	F1	ug/L		9	80 - 120

Lab Sample ID: 550-47965-H-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268177

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	300	F1	2500	536	F1	ug/L		10	80 - 120	1	20

Lab Sample ID: MB 440-268436/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268436

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/22/15 09:07	1

Lab Sample ID: LCS 440-268436/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	25.5		ug/L		102	85 - 115

Lab Sample ID: MRL 440-268436/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268436

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.25		ug/L		106	75 - 125

Lab Sample ID: 440-115378-4 MS — **Client Sample ID: PW-6D-GW-15072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	430		250	646		ug/L		87	80 - 120

QC Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Lab Sample ID: 440-115378-4 MSD
Matrix: Water
Analysis Batch: 268436

Client Sample ID: PW-6D-GW-15072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	430		250	637		ug/L		84	80 - 120	1	20

QC Association Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

GC/MS VOA

Analysis Batch: 267896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115378-1	15072015TB-1	Total/NA	Water	8260B	
440-115378-2	PW-6B-GW-15072015	Total/NA	Water	8260B	
440-115378-3	PW-6C-GW-15072015	Total/NA	Water	8260B	
440-115378-4	PW-6D-GW-15072015	Total/NA	Water	8260B	
440-115378-5	PW-6E-GW-15072015	Total/NA	Water	8260B	
440-115378-5 MS	PW-6E-GW-15072015	Total/NA	Water	8260B	
440-115378-5 MSD	PW-6E-GW-15072015	Total/NA	Water	8260B	
440-115378-6	15072015D-1	Total/NA	Water	8260B	
440-115378-7	15072015EB-1	Total/NA	Water	8260B	
LCS 440-267896/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-267896/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 268072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115378-2 - RA	PW-6B-GW-15072015	Total/NA	Water	8260B	
440-115378-3 - RA	PW-6C-GW-15072015	Total/NA	Water	8260B	
440-115378-4 - RA	PW-6D-GW-15072015	Total/NA	Water	8260B	
440-115378-5 - RA	PW-6E-GW-15072015	Total/NA	Water	8260B	
440-115378-6 - RA	15072015D-1	Total/NA	Water	8260B	
440-115378-7 - RA	15072015EB-1	Total/NA	Water	8260B	
MB 440-268072/4	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 268177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115378-2	PW-6B-GW-15072015	Total/NA	Water	314.0 LL	
440-115378-3	PW-6C-GW-15072015	Total/NA	Water	314.0 LL	
440-115378-5	PW-6E-GW-15072015	Total/NA	Water	314.0 LL	
440-115378-6	15072015D-1	Total/NA	Water	314.0 LL	
440-115378-7	15072015EB-1	Total/NA	Water	314.0 LL	
550-47965-H-1 MS	Matrix Spike	Total/NA	Water	314.0 LL	
550-47965-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
LCS 440-268177/34	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-268177/33	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-268177/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Analysis Batch: 268436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115378-4	PW-6D-GW-15072015	Total/NA	Water	314.0 LL	
440-115378-4 MS	PW-6D-GW-15072015	Total/NA	Water	314.0 LL	
440-115378-4 MSD	PW-6D-GW-15072015	Total/NA	Water	314.0 LL	
LCS 440-268436/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-268436/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-268436/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA, 60342184-07.0

TestAmerica Job ID: 440-115378-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16

* Certification renewal pending - certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 07/15/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Thinh Hoang / Kevin Tran
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
15072015 TB-1	7/15/15	1000	G	W	3	N	N	X		
PW-6A-GW-15072015	7/15/15	—	G	W	0	N	N			No Sample collected - Dry.
PW-6B-GW-15072015	7/15/15	1315	G	W	4	N	N	X	X	
PW-6C-GW-15072015	7/15/15	1245	G	W	4	N	N	X	X	
PW-6D-GW-15072015	7/15/15	1225	G	W	6	N	N	X	X	MS/MSD on Perchlorate only.
PW-6E-GW-15072015	7/15/15	1150	G	W	10	N	N	X	X	MS/MSD on VOCs only.
15072015D-1	7/15/15	—	G	W	4	N	N	X	X	
15072015 EB-1	7/15/15	1300	G	W	4	N	N	X	X	
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			

440-115378 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1,2 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	07/15/15-1545	[signature] George Gerardw	DCS UTC	7/15/15 1620
[signature] George Gerardw	DCS	7/15/15 1730			
			Received in Laboratory by: Olga Pinelas	Company: TAI	Date/Time: 7/15/15 1730

2.3°C/25°C

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-115378-1

Login Number: 115378
List Number: 1
Creator: Escalante, Maria I

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-115580-1
Client Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02
Revision: 1

For:
AECOM, Inc.
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Ms. Rebecca Mora

Authorized for release by:
8/4/2015 2:03:22 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-115580-1	16072015TB-1	Water	07/16/15 08:00	07/17/15 17:30
440-115580-2	16072015EB-1	Water	07/16/15 10:15	07/17/15 17:30
440-115580-3	PW-5E-GW-16072015	Water	07/16/15 09:05	07/17/15 17:30
440-115580-4	PW-5D-GW-16072015	Water	07/16/15 09:35	07/17/15 17:30
440-115580-5	PW-5C-GW-16072015	Water	07/16/15 10:00	07/17/15 17:30
440-115580-6	PW-5B-GW-16072015	Water	07/16/15 10:40	07/17/15 17:30
440-115580-7	PW-5A-GW-16072015	Water	07/16/15 11:10	07/17/15 17:30
440-115580-8	EPA-MP4E-GW-16072015	Water	07/16/15 13:25	07/17/15 17:30
440-115580-9	EPA-MP4D-GW-16072015	Water	07/16/15 13:55	07/17/15 17:30
440-115580-10	16072015D-3	Water	07/16/15 00:01	07/17/15 17:30
440-115580-11	16072015D-1	Water	07/16/15 00:01	07/17/15 17:30
440-115580-12	16072015D-2	Water	07/16/15 00:01	07/17/15 17:30
440-115580-13	EPA-MP4C-GW-16072015	Water	07/16/15 14:40	07/17/15 17:30
440-115580-14	EPA-MP4B-GW-16072015	Water	07/16/15 15:05	07/17/15 17:30
440-115580-15	EPA-MP4A-GW-16072015	Water	07/16/15 15:45	07/17/15 17:30

Job ID: 440-115580-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-115580-1

Comments
This report was revised on 8/4/15 to clarify the EPA 8260B case narrative note concerning headspace for sample EPA-MP4E-GW-16072015 (440-115580-8).

Receipt
The samples were received on 7/17/2015 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 440-268600 recovered above the upper control limit for 2,2-Dichloropropane. The following sample associated with this CCV was non-detect for the affected analyte; therefore, the data have been reported: EPA-MP4E-GW-16072015 (440-115580-8).

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 440-268708 recovered above the upper control limit for 2,2-Dichloropropane. The following samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported: EPA-MP4D-GW-16072015 (440-115580-9), 16072015D-3 (440-115580-10), 16072015D-1 (440-115580-11).

Method(s) 8260B: The following volatile sample was analyzed with significant headspace in the sample vial(s) for 2-Chloro-1,3-butadiene: EPA-MP4E-GW-16072015 (440-115580-8). Significant headspace is defined as a bubble greater than 6 mm in diameter. All 3 VOA vials had headspace due to need for multiple re-analysis, so the re-analysis for only 2-Chloro-1,3-butadiene was done from a VOA vial that had been previously used.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: 16072015TB-1

Date Collected: 07/16/15 08:00
Date Received: 07/17/15 17:30

Lab Sample ID: 440-115580-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/22/15 16:21	1
Benzene	ND		0.50		ug/L			07/22/15 16:21	1
Bromobenzene	ND		1.0		ug/L			07/22/15 16:21	1
Bromochloromethane	ND		1.0		ug/L			07/22/15 16:21	1
Bromodichloromethane	ND		1.0		ug/L			07/22/15 16:21	1
Bromoform	ND		1.0		ug/L			07/22/15 16:21	1
Bromomethane	ND		2.0		ug/L			07/22/15 16:21	1
1,3-Butadiene	ND		1.0		ug/L			07/22/15 16:21	1
2-Butanone (MEK)	ND		10		ug/L			07/22/15 16:21	1
Carbon disulfide	ND		2.0		ug/L			07/22/15 16:21	1
Carbon tetrachloride	ND		1.0		ug/L			07/22/15 16:21	1
Chlorobenzene	ND		1.0		ug/L			07/22/15 16:21	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/22/15 16:21	1
Chloroethane	ND		1.0		ug/L			07/22/15 16:21	1
Chloroform	ND		1.0		ug/L			07/22/15 16:21	1
Chloromethane	ND		1.0		ug/L			07/22/15 16:21	1
2-Chlorotoluene	ND		2.0		ug/L			07/22/15 16:21	1
4-Chlorotoluene	ND		2.0		ug/L			07/22/15 16:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 16:21	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 16:21	1
Dibromochloromethane	ND		1.0		ug/L			07/22/15 16:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/22/15 16:21	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/22/15 16:21	1
Dibromomethane	ND		1.0		ug/L			07/22/15 16:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/22/15 16:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/22/15 16:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/22/15 16:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/22/15 16:21	1
1,1-Dichloroethane	ND		1.0		ug/L			07/22/15 16:21	1
1,2-Dichloroethane	ND		0.50		ug/L			07/22/15 16:21	1
1,1-Dichloroethene	ND		1.0		ug/L			07/22/15 16:21	1
1,2-Dichloropropane	ND		1.0		ug/L			07/22/15 16:21	1
1,3-Dichloropropane	ND		1.0		ug/L			07/22/15 16:21	1
2,2-Dichloropropane	ND		1.0		ug/L			07/22/15 16:21	1
1,1-Dichloropropene	ND		1.0		ug/L			07/22/15 16:21	1
Ethylbenzene	ND		1.0		ug/L			07/22/15 16:21	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/22/15 16:21	1
Hexachlorobutadiene	ND		2.0		ug/L			07/22/15 16:21	1
2-Hexanone	ND		10		ug/L			07/22/15 16:21	1
Isopropylbenzene	ND		1.0		ug/L			07/22/15 16:21	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/22/15 16:21	1
Methylene Chloride	ND		5.0		ug/L			07/22/15 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/22/15 16:21	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/22/15 16:21	1
m,p-Xylene	ND		1.0		ug/L			07/22/15 16:21	1
Naphthalene	ND		5.0		ug/L			07/22/15 16:21	1
n-Butylbenzene	ND		2.0		ug/L			07/22/15 16:21	1
N-Propylbenzene	ND		2.0		ug/L			07/22/15 16:21	1
o-Xylene	ND		1.0		ug/L			07/22/15 16:21	1

Client Sample ID: 16072015TB-1

Lab Sample ID: 440-115580-1
Date Collected: 07/16/15 08:00
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/22/15 16:21	1
sec-Butylbenzene	ND		2.0	ug/L			07/22/15 16:21	1
Styrene	ND		1.0	ug/L			07/22/15 16:21	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/22/15 16:21	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/22/15 16:21	1
tert-Butylbenzene	ND		2.0	ug/L			07/22/15 16:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 16:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 16:21	1
Tetrachloroethene	ND		1.0	ug/L			07/22/15 16:21	1
Toluene	ND		1.0	ug/L			07/22/15 16:21	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/22/15 16:21	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 16:21	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 16:21	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/22/15 16:21	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 16:21	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 16:21	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 16:21	1
Trichloroethene	ND		1.0	ug/L			07/22/15 16:21	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 16:21	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 16:21	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 16:21	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 16:21	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 16:21	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/22/15 16:21*	*1*
Dibromofluoromethane (Surr)	*117*		*76 - 132*		*07/22/15 16:21*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/22/15 16:21*	*1*

Client Sample ID: 16072015EB-1

Lab Sample ID: 440-115580-2
Date Collected: 07/16/15 10:15
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/22/15 15:54	1
Benzene	ND		0.50	ug/L			07/22/15 15:54	1
Bromobenzene	ND		1.0	ug/L			07/22/15 15:54	1
Bromochloromethane	ND		1.0	ug/L			07/22/15 15:54	1
Bromodichloromethane	ND		1.0	ug/L			07/22/15 15:54	1
Bromoform	ND		1.0	ug/L			07/22/15 15:54	1
Bromomethane	ND		2.0	ug/L			07/22/15 15:54	1
1,3-Butadiene	ND		1.0	ug/L			07/22/15 15:54	1
2-Butanone (MEK)	ND		10	ug/L			07/22/15 15:54	1
Carbon disulfide	ND		2.0	ug/L			07/22/15 15:54	1
Carbon tetrachloride	ND		1.0	ug/L			07/22/15 15:54	1
Chlorobenzene	ND		1.0	ug/L			07/22/15 15:54	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/22/15 15:54	1
Chloroethane	ND		1.0	ug/L			07/22/15 15:54	1

Client Sample ID: 16072015EB-1

Date Collected: 07/16/15 10:15
Date Received: 07/17/15 17:30

Lab Sample ID: 440-115580-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0		ug/L			07/22/15 15:54	1
Chloromethane	ND		1.0		ug/L			07/22/15 15:54	1
2-Chlorotoluene	ND		2.0		ug/L			07/22/15 15:54	1
4-Chlorotoluene	ND		2.0		ug/L			07/22/15 15:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 15:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 15:54	1
Dibromochloromethane	ND		1.0		ug/L			07/22/15 15:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/22/15 15:54	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/22/15 15:54	1
Dibromomethane	ND		1.0		ug/L			07/22/15 15:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/22/15 15:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/22/15 15:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/22/15 15:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/22/15 15:54	1
1,1-Dichloroethane	ND		1.0		ug/L			07/22/15 15:54	1
1,2-Dichloroethane	ND		0.50		ug/L			07/22/15 15:54	1
1,1-Dichloroethene	ND		1.0		ug/L			07/22/15 15:54	1
1,2-Dichloropropane	ND		1.0		ug/L			07/22/15 15:54	1
1,3-Dichloropropane	ND		1.0		ug/L			07/22/15 15:54	1
2,2-Dichloropropane	ND		1.0		ug/L			07/22/15 15:54	1
1,1-Dichloropropene	ND		1.0		ug/L			07/22/15 15:54	1
Ethylbenzene	ND		1.0		ug/L			07/22/15 15:54	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/22/15 15:54	1
Hexachlorobutadiene	ND		2.0		ug/L			07/22/15 15:54	1
2-Hexanone	ND		10		ug/L			07/22/15 15:54	1
Isopropylbenzene	ND		1.0		ug/L			07/22/15 15:54	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/22/15 15:54	1
Methylene Chloride	ND		5.0		ug/L			07/22/15 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/22/15 15:54	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/22/15 15:54	1
m,p-Xylene	ND		1.0		ug/L			07/22/15 15:54	1
Naphthalene	ND		5.0		ug/L			07/22/15 15:54	1
n-Butylbenzene	ND		2.0		ug/L			07/22/15 15:54	1
N-Propylbenzene	ND		2.0		ug/L			07/22/15 15:54	1
o-Xylene	ND		1.0		ug/L			07/22/15 15:54	1
p-Isopropyltoluene	ND		2.0		ug/L			07/22/15 15:54	1
sec-Butylbenzene	ND		2.0		ug/L			07/22/15 15:54	1
Styrene	ND		1.0		ug/L			07/22/15 15:54	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/22/15 15:54	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/22/15 15:54	1
tert-Butylbenzene	ND		2.0		ug/L			07/22/15 15:54	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/22/15 15:54	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/22/15 15:54	1
Tetrachloroethene	ND		1.0		ug/L			07/22/15 15:54	1
Toluene	ND		1.0		ug/L			07/22/15 15:54	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/22/15 15:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 15:54	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 15:54	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/22/15 15:54	1

Client Sample ID: 16072015EB-1

Lab Sample ID: 440-115580-2

Date Collected: 07/16/15 10:15
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 15:54	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 15:54	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 15:54	1
Trichloroethene	ND		1.0	ug/L			07/22/15 15:54	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 15:54	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 15:54	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 15:54	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 15:54	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 15:54	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/22/15 15:54*	*1*
Dibromofluoromethane (Surr)	*117*		*76 - 132*		*07/22/15 15:54*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/22/15 15:54*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/23/15 13:09	1

Client Sample ID: PW-5E-GW-16072015

Lab Sample ID: 440-115580-3

Date Collected: 07/16/15 09:05
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/22/15 09:03	1
Benzene	ND		0.50	ug/L			07/22/15 09:03	1
Bromobenzene	ND		1.0	ug/L			07/22/15 09:03	1
Bromochloromethane	ND		1.0	ug/L			07/22/15 09:03	1
Bromodichloromethane	ND		1.0	ug/L			07/22/15 09:03	1
Bromoform	ND		1.0	ug/L			07/22/15 09:03	1
Bromomethane	ND		2.0	ug/L			07/22/15 09:03	1
1,3-Butadiene	ND		1.0	ug/L			07/22/15 09:03	1
2-Butanone (MEK)	ND		10	ug/L			07/22/15 09:03	1
Carbon disulfide	ND		2.0	ug/L			07/22/15 09:03	1
Carbon tetrachloride	ND		1.0	ug/L			07/22/15 09:03	1
Chlorobenzene	ND		1.0	ug/L			07/22/15 09:03	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/22/15 09:03	1
Chloroethane	ND		1.0	ug/L			07/22/15 09:03	1
Chloroform	ND		1.0	ug/L			07/22/15 09:03	1
Chloromethane	ND		1.0	ug/L			07/22/15 09:03	1
2-Chlorotoluene	ND		2.0	ug/L			07/22/15 09:03	1
4-Chlorotoluene	ND		2.0	ug/L			07/22/15 09:03	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 09:03	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 09:03	1
Dibromochloromethane	ND		1.0	ug/L			07/22/15 09:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/22/15 09:03	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/22/15 09:03	1
Dibromomethane	ND		1.0	ug/L			07/22/15 09:03	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: PW-5E-GW-16072015

Lab Sample ID: 440-115580-3
Date Collected: 07/16/15 09:05
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	ug/L			07/22/15 09:03	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/22/15 09:03	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/22/15 09:03	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/22/15 09:03	1
1,1-Dichloroethane	ND		1.0	ug/L			07/22/15 09:03	1
1,2-Dichloroethane	ND		0.50	ug/L			07/22/15 09:03	1
1,1-Dichloroethene	ND		1.0	ug/L			07/22/15 09:03	1
1,2-Dichloropropane	ND		1.0	ug/L			07/22/15 09:03	1
1,3-Dichloropropane	ND		1.0	ug/L			07/22/15 09:03	1
2,2-Dichloropropane	ND		1.0	ug/L			07/22/15 09:03	1
1,1-Dichloropropene	ND		1.0	ug/L			07/22/15 09:03	1
Ethylbenzene	ND		1.0	ug/L			07/22/15 09:03	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/22/15 09:03	1
Hexachlorobutadiene	ND		2.0	ug/L			07/22/15 09:03	1
2-Hexanone	ND		10	ug/L			07/22/15 09:03	1
Isopropylbenzene	ND		1.0	ug/L			07/22/15 09:03	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/22/15 09:03	1
Methylene Chloride	ND		5.0	ug/L			07/22/15 09:03	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/22/15 09:03	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/22/15 09:03	1
m,p-Xylene	ND		1.0	ug/L			07/22/15 09:03	1
Naphthalene	ND		5.0	ug/L			07/22/15 09:03	1
n-Butylbenzene	ND		2.0	ug/L			07/22/15 09:03	1
N-Propylbenzene	ND		2.0	ug/L			07/22/15 09:03	1
o-Xylene	ND		1.0	ug/L			07/22/15 09:03	1
p-Isopropyltoluene	ND		2.0	ug/L			07/22/15 09:03	1
sec-Butylbenzene	ND		2.0	ug/L			07/22/15 09:03	1
Styrene	ND		1.0	ug/L			07/22/15 09:03	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/22/15 09:03	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/22/15 09:03	1
tert-Butylbenzene	ND		2.0	ug/L			07/22/15 09:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 09:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 09:03	1
Tetrachloroethene	ND		1.0	ug/L			07/22/15 09:03	1
Toluene	ND		1.0	ug/L			07/22/15 09:03	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/22/15 09:03	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 09:03	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 09:03	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/22/15 09:03	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 09:03	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 09:03	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 09:03	1
Trichloroethene	**22**		1.0	ug/L			07/22/15 09:03	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 09:03	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 09:03	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 09:03	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 09:03	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 09:03	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 09:03	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: PW-5E-GW-16072015

Lab Sample ID: 440-115580-3
Date Collected: 07/16/15 09:05
Matrix: Water
Date Received: 07/17/15 17:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		07/22/15 09:03	1
Dibromofluoromethane (Surr)	112		76 - 132		07/22/15 09:03	1
Toluene-d8 (Surr)	108		80 - 128		07/22/15 09:03	1

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	410		30	ug/L			07/23/15 17:38	10

Client Sample ID: PW-5D-GW-16072015

Lab Sample ID: 440-115580-4
Date Collected: 07/16/15 09:35
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/22/15 11:48	1
Benzene	ND		0.50	ug/L			07/22/15 11:48	1
Bromobenzene	ND		1.0	ug/L			07/22/15 11:48	1
Bromochloromethane	ND		1.0	ug/L			07/22/15 11:48	1
Bromodichloromethane	ND		1.0	ug/L			07/22/15 11:48	1
Bromoform	ND		1.0	ug/L			07/22/15 11:48	1
Bromomethane	ND		2.0	ug/L			07/22/15 11:48	1
1,3-Butadiene	ND		1.0	ug/L			07/22/15 11:48	1
2-Butanone (MEK)	ND		10	ug/L			07/22/15 11:48	1
Carbon disulfide	ND		2.0	ug/L			07/22/15 11:48	1
Carbon tetrachloride	ND		1.0	ug/L			07/22/15 11:48	1
Chlorobenzene	ND		1.0	ug/L			07/22/15 11:48	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/22/15 11:48	1
Chloroethane	ND		1.0	ug/L			07/22/15 11:48	1
Chloroform	ND		1.0	ug/L			07/22/15 11:48	1
Chloromethane	ND		1.0	ug/L			07/22/15 11:48	1
2-Chlorotoluene	ND		2.0	ug/L			07/22/15 11:48	1
4-Chlorotoluene	ND		2.0	ug/L			07/22/15 11:48	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 11:48	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 11:48	1
Dibromochloromethane	ND		1.0	ug/L			07/22/15 11:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/22/15 11:48	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/22/15 11:48	1
Dibromomethane	ND		1.0	ug/L			07/22/15 11:48	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/22/15 11:48	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/22/15 11:48	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/22/15 11:48	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/22/15 11:48	1
1,1-Dichloroethane	ND		1.0	ug/L			07/22/15 11:48	1
1,2-Dichloroethane	ND		0.50	ug/L			07/22/15 11:48	1
1,1-Dichloroethene	ND		1.0	ug/L			07/22/15 11:48	1
1,2-Dichloropropane	ND		1.0	ug/L			07/22/15 11:48	1
1,3-Dichloropropane	ND		1.0	ug/L			07/22/15 11:48	1
2,2-Dichloropropane	ND		1.0	ug/L			07/22/15 11:48	1
1,1-Dichloropropene	ND		1.0	ug/L			07/22/15 11:48	1
Ethylbenzene	ND		1.0	ug/L			07/22/15 11:48	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: PW-5D-GW-16072015

Lab Sample ID: 440-115580-4
Date Collected: 07/16/15 09:35
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/22/15 11:48	1
Hexachlorobutadiene	ND		2.0	ug/L			07/22/15 11:48	1
2-Hexanone	ND		10	ug/L			07/22/15 11:48	1
Isopropylbenzene	ND		1.0	ug/L			07/22/15 11:48	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/22/15 11:48	1
Methylene Chloride	ND		5.0	ug/L			07/22/15 11:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/22/15 11:48	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/22/15 11:48	1
m,p-Xylene	ND		1.0	ug/L			07/22/15 11:48	1
Naphthalene	ND		5.0	ug/L			07/22/15 11:48	1
n-Butylbenzene	ND		2.0	ug/L			07/22/15 11:48	1
N-Propylbenzene	ND		2.0	ug/L			07/22/15 11:48	1
o-Xylene	ND		1.0	ug/L			07/22/15 11:48	1
p-Isopropyltoluene	ND		2.0	ug/L			07/22/15 11:48	1
sec-Butylbenzene	ND		2.0	ug/L			07/22/15 11:48	1
Styrene	ND		1.0	ug/L			07/22/15 11:48	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/22/15 11:48	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/22/15 11:48	1
tert-Butylbenzene	ND		2.0	ug/L			07/22/15 11:48	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 11:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 11:48	1
Tetrachloroethene	ND		1.0	ug/L			07/22/15 11:48	1
Toluene	ND		1.0	ug/L			07/22/15 11:48	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/22/15 11:48	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 11:48	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 11:48	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/22/15 11:48	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 11:48	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 11:48	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 11:48	1
Trichloroethene	**35**		1.0	ug/L			07/22/15 11:48	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 11:48	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 11:48	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 11:48	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 11:48	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 11:48	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/22/15 11:48*	*1*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*07/22/15 11:48*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/22/15 11:48*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**530**		30	ug/L			07/24/15 09:30	10

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: PW-5C-GW-16072015

Lab Sample ID: 440-115580-5
Date Collected: 07/16/15 10:00
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/22/15 12:16	1
Benzene	ND		0.50		ug/L			07/22/15 12:16	1
Bromobenzene	ND		1.0		ug/L			07/22/15 12:16	1
Bromochloromethane	ND		1.0		ug/L			07/22/15 12:16	1
Bromodichloromethane	ND		1.0		ug/L			07/22/15 12:16	1
Bromoform	ND		1.0		ug/L			07/22/15 12:16	1
Bromomethane	ND		2.0		ug/L			07/22/15 12:16	1
1,3-Butadiene	ND		1.0		ug/L			07/22/15 12:16	1
2-Butanone (MEK)	ND		10		ug/L			07/22/15 12:16	1
Carbon disulfide	ND		2.0		ug/L			07/22/15 12:16	1
Carbon tetrachloride	ND		1.0		ug/L			07/22/15 12:16	1
Chlorobenzene	ND		1.0		ug/L			07/22/15 12:16	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/22/15 12:16	1
Chloroethane	ND		1.0		ug/L			07/22/15 12:16	1
Chloroform	ND		1.0		ug/L			07/22/15 12:16	1
Chloromethane	ND		1.0		ug/L			07/22/15 12:16	1
2-Chlorotoluene	ND		2.0		ug/L			07/22/15 12:16	1
4-Chlorotoluene	ND		2.0		ug/L			07/22/15 12:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 12:16	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 12:16	1
Dibromochloromethane	ND		1.0		ug/L			07/22/15 12:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/22/15 12:16	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/22/15 12:16	1
Dibromomethane	ND		1.0		ug/L			07/22/15 12:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/22/15 12:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/22/15 12:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/22/15 12:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/22/15 12:16	1
1,1-Dichloroethane	ND		1.0		ug/L			07/22/15 12:16	1
1,2-Dichloroethane	ND		0.50		ug/L			07/22/15 12:16	1
1,1-Dichloroethene	ND		1.0		ug/L			07/22/15 12:16	1
1,2-Dichloropropane	ND		1.0		ug/L			07/22/15 12:16	1
1,3-Dichloropropane	ND		1.0		ug/L			07/22/15 12:16	1
2,2-Dichloropropane	ND		1.0		ug/L			07/22/15 12:16	1
1,1-Dichloropropene	ND		1.0		ug/L			07/22/15 12:16	1
Ethylbenzene	ND		1.0		ug/L			07/22/15 12:16	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/22/15 12:16	1
Hexachlorobutadiene	ND		2.0		ug/L			07/22/15 12:16	1
2-Hexanone	ND		10		ug/L			07/22/15 12:16	1
Isopropylbenzene	ND		1.0		ug/L			07/22/15 12:16	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/22/15 12:16	1
Methylene Chloride	ND		5.0		ug/L			07/22/15 12:16	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/22/15 12:16	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/22/15 12:16	1
m,p-Xylene	ND		1.0		ug/L			07/22/15 12:16	1
Naphthalene	ND		5.0		ug/L			07/22/15 12:16	1
n-Butylbenzene	ND		2.0		ug/L			07/22/15 12:16	1
N-Propylbenzene	ND		2.0		ug/L			07/22/15 12:16	1
o-Xylene	ND		1.0		ug/L			07/22/15 12:16	1

Client Sample ID: PW-5C-GW-16072015

Lab Sample ID: 440-115580-5
Date Collected: 07/16/15 10:00
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/22/15 12:16	1
sec-Butylbenzene	ND		2.0	ug/L			07/22/15 12:16	1
Styrene	ND		1.0	ug/L			07/22/15 12:16	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/22/15 12:16	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/22/15 12:16	1
tert-Butylbenzene	ND		2.0	ug/L			07/22/15 12:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 12:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 12:16	1
Tetrachloroethene	ND		1.0	ug/L			07/22/15 12:16	1
Toluene	ND		1.0	ug/L			07/22/15 12:16	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/22/15 12:16	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 12:16	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 12:16	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/22/15 12:16	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 12:16	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 12:16	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 12:16	1
Trichloroethene	**34**		1.0	ug/L			07/22/15 12:16	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 12:16	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 12:16	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 12:16	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 12:16	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 12:16	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/22/15 12:16*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*07/22/15 12:16*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/22/15 12:16*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**180**		30	ug/L			07/23/15 17:56	10

Client Sample ID: PW-5B-GW-16072015

Lab Sample ID: 440-115580-6
Date Collected: 07/16/15 10:40
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/22/15 12:43	1
Benzene	ND		0.50	ug/L			07/22/15 12:43	1
Bromobenzene	ND		1.0	ug/L			07/22/15 12:43	1
Bromochloromethane	ND		1.0	ug/L			07/22/15 12:43	1
Bromodichloromethane	ND		1.0	ug/L			07/22/15 12:43	1
Bromoform	ND		1.0	ug/L			07/22/15 12:43	1
Bromomethane	ND		2.0	ug/L			07/22/15 12:43	1
1,3-Butadiene	ND		1.0	ug/L			07/22/15 12:43	1
2-Butanone (MEK)	ND		10	ug/L			07/22/15 12:43	1
Carbon disulfide	ND		2.0	ug/L			07/22/15 12:43	1

Client Sample ID: PW-5B-GW-16072015

Lab Sample ID: 440-115580-6

Date Collected: 07/16/15 10:40

Matrix: Water

Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0		ug/L			07/22/15 12:43	1
Chlorobenzene	ND		1.0		ug/L			07/22/15 12:43	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/22/15 12:43	1
Chloroethane	ND		1.0		ug/L			07/22/15 12:43	1
Chloroform	ND		1.0		ug/L			07/22/15 12:43	1
Chloromethane	ND		1.0		ug/L			07/22/15 12:43	1
2-Chlorotoluene	ND		2.0		ug/L			07/22/15 12:43	1
4-Chlorotoluene	ND		2.0		ug/L			07/22/15 12:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 12:43	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 12:43	1
Dibromochloromethane	ND		1.0		ug/L			07/22/15 12:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/22/15 12:43	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/22/15 12:43	1
Dibromomethane	ND		1.0		ug/L			07/22/15 12:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/22/15 12:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/22/15 12:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/22/15 12:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/22/15 12:43	1
1,1-Dichloroethane	ND		1.0		ug/L			07/22/15 12:43	1
1,2-Dichloroethane	ND		0.50		ug/L			07/22/15 12:43	1
1,1-Dichloroethene	ND		1.0		ug/L			07/22/15 12:43	1
1,2-Dichloropropane	ND		1.0		ug/L			07/22/15 12:43	1
1,3-Dichloropropane	ND		1.0		ug/L			07/22/15 12:43	1
2,2-Dichloropropane	ND		1.0		ug/L			07/22/15 12:43	1
1,1-Dichloropropene	ND		1.0		ug/L			07/22/15 12:43	1
Ethylbenzene	ND		1.0		ug/L			07/22/15 12:43	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/22/15 12:43	1
Hexachlorobutadiene	ND		2.0		ug/L			07/22/15 12:43	1
2-Hexanone	ND		10		ug/L			07/22/15 12:43	1
Isopropylbenzene	ND		1.0		ug/L			07/22/15 12:43	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/22/15 12:43	1
Methylene Chloride	ND		5.0		ug/L			07/22/15 12:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/22/15 12:43	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/22/15 12:43	1
m,p-Xylene	ND		1.0		ug/L			07/22/15 12:43	1
Naphthalene	ND		5.0		ug/L			07/22/15 12:43	1
n-Butylbenzene	ND		2.0		ug/L			07/22/15 12:43	1
N-Propylbenzene	ND		2.0		ug/L			07/22/15 12:43	1
o-Xylene	ND		1.0		ug/L			07/22/15 12:43	1
p-Isopropyltoluene	ND		2.0		ug/L			07/22/15 12:43	1
sec-Butylbenzene	ND		2.0		ug/L			07/22/15 12:43	1
Styrene	ND		1.0		ug/L			07/22/15 12:43	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/22/15 12:43	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/22/15 12:43	1
tert-Butylbenzene	ND		2.0		ug/L			07/22/15 12:43	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/22/15 12:43	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/22/15 12:43	1
Tetrachloroethene	ND		1.0		ug/L			07/22/15 12:43	1
Toluene	ND		1.0		ug/L			07/22/15 12:43	1

Client Sample ID: PW-5B-GW-16072015

Lab Sample ID: 440-115580-6
Date Collected: 07/16/15 10:40
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/22/15 12:43	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 12:43	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 12:43	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/22/15 12:43	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 12:43	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 12:43	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 12:43	1
Trichloroethene	**24**		1.0	ug/L			07/22/15 12:43	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 12:43	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 12:43	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 12:43	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 12:43	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 12:43	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/22/15 12:43*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*07/22/15 12:43*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*07/22/15 12:43*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**82**		3.0	ug/L			07/23/15 14:02	1

Client Sample ID: PW-5A-GW-16072015

Lab Sample ID: 440-115580-7
Date Collected: 07/16/15 11:10
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/22/15 13:10	1
Benzene	ND		0.50	ug/L			07/22/15 13:10	1
Bromobenzene	ND		1.0	ug/L			07/22/15 13:10	1
Bromochloromethane	ND		1.0	ug/L			07/22/15 13:10	1
Bromodichloromethane	ND		1.0	ug/L			07/22/15 13:10	1
Bromoform	ND		1.0	ug/L			07/22/15 13:10	1
Bromomethane	ND		2.0	ug/L			07/22/15 13:10	1
1,3-Butadiene	ND		1.0	ug/L			07/22/15 13:10	1
2-Butanone (MEK)	ND		10	ug/L			07/22/15 13:10	1
Carbon disulfide	ND		2.0	ug/L			07/22/15 13:10	1
Carbon tetrachloride	ND		1.0	ug/L			07/22/15 13:10	1
Chlorobenzene	ND		1.0	ug/L			07/22/15 13:10	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/22/15 13:10	1
Chloroethane	ND		1.0	ug/L			07/22/15 13:10	1
Chloroform	ND		1.0	ug/L			07/22/15 13:10	1
Chloromethane	ND		1.0	ug/L			07/22/15 13:10	1
2-Chlorotoluene	ND		2.0	ug/L			07/22/15 13:10	1
4-Chlorotoluene	ND		2.0	ug/L			07/22/15 13:10	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 13:10	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 13:10	1

Client Sample ID: PW-5A-GW-16072015

Lab Sample ID: 440-115580-7

Date Collected: 07/16/15 11:10

Matrix: Water

Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	ug/L			07/22/15 13:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/22/15 13:10	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/22/15 13:10	1
Dibromomethane	ND		1.0	ug/L			07/22/15 13:10	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/22/15 13:10	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/22/15 13:10	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/22/15 13:10	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/22/15 13:10	1
1,1-Dichloroethane	ND		1.0	ug/L			07/22/15 13:10	1
1,2-Dichloroethane	ND		0.50	ug/L			07/22/15 13:10	1
1,1-Dichloroethene	ND		1.0	ug/L			07/22/15 13:10	1
1,2-Dichloropropane	ND		1.0	ug/L			07/22/15 13:10	1
1,3-Dichloropropane	ND		1.0	ug/L			07/22/15 13:10	1
2,2-Dichloropropane	ND		1.0	ug/L			07/22/15 13:10	1
1,1-Dichloropropene	ND		1.0	ug/L			07/22/15 13:10	1
Ethylbenzene	ND		1.0	ug/L			07/22/15 13:10	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/22/15 13:10	1
Hexachlorobutadiene	ND		2.0	ug/L			07/22/15 13:10	1
2-Hexanone	ND		10	ug/L			07/22/15 13:10	1
Isopropylbenzene	ND		1.0	ug/L			07/22/15 13:10	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/22/15 13:10	1
Methylene Chloride	ND		5.0	ug/L			07/22/15 13:10	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/22/15 13:10	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/22/15 13:10	1
m,p-Xylene	ND		1.0	ug/L			07/22/15 13:10	1
Naphthalene	ND		5.0	ug/L			07/22/15 13:10	1
n-Butylbenzene	ND		2.0	ug/L			07/22/15 13:10	1
N-Propylbenzene	ND		2.0	ug/L			07/22/15 13:10	1
o-Xylene	ND		1.0	ug/L			07/22/15 13:10	1
p-Isopropyltoluene	ND		2.0	ug/L			07/22/15 13:10	1
sec-Butylbenzene	ND		2.0	ug/L			07/22/15 13:10	1
Styrene	ND		1.0	ug/L			07/22/15 13:10	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/22/15 13:10	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/22/15 13:10	1
tert-Butylbenzene	ND		2.0	ug/L			07/22/15 13:10	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 13:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 13:10	1
Tetrachloroethene	ND		1.0	ug/L			07/22/15 13:10	1
Toluene	ND		1.0	ug/L			07/22/15 13:10	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/22/15 13:10	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 13:10	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 13:10	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/22/15 13:10	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 13:10	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 13:10	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 13:10	1
Trichloroethene	**1.7**		1.0	ug/L			07/22/15 13:10	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 13:10	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 13:10	1

Client Sample ID: PW-5A-GW-16072015

Lab Sample ID: 440-115580-7
Date Collected: 07/16/15 11:10
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 13:10	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 13:10	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 13:10	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/22/15 13:10*	*1*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*07/22/15 13:10*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*07/22/15 13:10*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**54**		3.0	ug/L			07/23/15 14:20	1

Client Sample ID: EPA-MP4E-GW-16072015

Lab Sample ID: 440-115580-8
Date Collected: 07/16/15 13:25
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 02:56	1
Benzene	ND		0.50	ug/L			07/23/15 02:56	1
Bromobenzene	ND		1.0	ug/L			07/23/15 02:56	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 02:56	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 02:56	1
Bromoform	ND		1.0	ug/L			07/23/15 02:56	1
Bromomethane	ND		2.0	ug/L			07/23/15 02:56	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 02:56	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 02:56	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 02:56	1
Carbon tetrachloride	ND		1.0	ug/L			07/23/15 02:56	1
Chlorobenzene	ND		1.0	ug/L			07/23/15 02:56	1
Chloroethane	ND		1.0	ug/L			07/23/15 02:56	1
Chloroform	ND		1.0	ug/L			07/23/15 02:56	1
Chloromethane	ND		1.0	ug/L			07/23/15 02:56	1
2-Chlorotoluene	ND		2.0	ug/L			07/23/15 02:56	1
4-Chlorotoluene	ND		2.0	ug/L			07/23/15 02:56	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 02:56	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 02:56	1
Dibromochloromethane	ND		1.0	ug/L			07/23/15 02:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/23/15 02:56	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/23/15 02:56	1
Dibromomethane	ND		1.0	ug/L			07/23/15 02:56	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/23/15 02:56	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/23/15 02:56	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/23/15 02:56	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/23/15 02:56	1
1,1-Dichloroethane	ND		1.0	ug/L			07/23/15 02:56	1
1,2-Dichloroethane	ND		0.50	ug/L			07/23/15 02:56	1
1,1-Dichloroethene	ND		1.0	ug/L			07/23/15 02:56	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: EPA-MP4E-GW-16072015

Lab Sample ID: 440-115580-8

Date Collected: 07/16/15 13:25
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	ug/L			07/23/15 02:56	1
1,3-Dichloropropane	ND		1.0	ug/L			07/23/15 02:56	1
2,2-Dichloropropane	ND		1.0	ug/L			07/23/15 02:56	1
1,1-Dichloropropene	ND		1.0	ug/L			07/23/15 02:56	1
Ethylbenzene	ND		1.0	ug/L			07/23/15 02:56	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/23/15 02:56	1
Hexachlorobutadiene	ND		2.0	ug/L			07/23/15 02:56	1
2-Hexanone	ND		10	ug/L			07/23/15 02:56	1
Isopropylbenzene	ND		1.0	ug/L			07/23/15 02:56	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/23/15 02:56	1
Methylene Chloride	ND		5.0	ug/L			07/23/15 02:56	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/23/15 02:56	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/23/15 02:56	1
m,p-Xylene	ND		1.0	ug/L			07/23/15 02:56	1
Naphthalene	ND		5.0	ug/L			07/23/15 02:56	1
n-Butylbenzene	ND		2.0	ug/L			07/23/15 02:56	1
N-Propylbenzene	ND		2.0	ug/L			07/23/15 02:56	1
o-Xylene	ND		1.0	ug/L			07/23/15 02:56	1
p-Isopropyltoluene	ND		2.0	ug/L			07/23/15 02:56	1
sec-Butylbenzene	ND		2.0	ug/L			07/23/15 02:56	1
Styrene	ND		1.0	ug/L			07/23/15 02:56	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 02:56	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 02:56	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 02:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 02:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 02:56	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 02:56	1
Toluene	ND		1.0	ug/L			07/23/15 02:56	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 02:56	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 02:56	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 02:56	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 02:56	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 02:56	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 02:56	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 02:56	1
Trichloroethene	ND		1.0	ug/L			07/23/15 02:56	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 02:56	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 02:56	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 02:56	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 02:56	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 02:56	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/23/15 02:56*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*07/23/15 02:56*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*07/23/15 02:56*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: EPA-MP4E-GW-16072015

Lab Sample ID: 440-115580-8
Date Collected: 07/16/15 13:25
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/23/15 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/23/15 12:12*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*07/23/15 12:12*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*07/23/15 12:12*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/23/15 14:38	1

Client Sample ID: EPA-MP4D-GW-16072015

Lab Sample ID: 440-115580-9
Date Collected: 07/16/15 13:55
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 12:40	1
Benzene	ND		0.50	ug/L			07/23/15 12:40	1
Bromobenzene	ND		1.0	ug/L			07/23/15 12:40	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 12:40	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 12:40	1
Bromoform	ND		1.0	ug/L			07/23/15 12:40	1
Bromomethane	ND		2.0	ug/L			07/23/15 12:40	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 12:40	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 12:40	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 12:40	1
Carbon tetrachloride	ND		1.0	ug/L			07/23/15 12:40	1
Chlorobenzene	ND		1.0	ug/L			07/23/15 12:40	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/23/15 12:40	1
Chloroethane	ND		1.0	ug/L			07/23/15 12:40	1
Chloroform	ND		1.0	ug/L			07/23/15 12:40	1
Chloromethane	ND		1.0	ug/L			07/23/15 12:40	1
2-Chlorotoluene	ND		2.0	ug/L			07/23/15 12:40	1
4-Chlorotoluene	ND		2.0	ug/L			07/23/15 12:40	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 12:40	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 12:40	1
Dibromochloromethane	ND		1.0	ug/L			07/23/15 12:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/23/15 12:40	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/23/15 12:40	1
Dibromomethane	ND		1.0	ug/L			07/23/15 12:40	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/23/15 12:40	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/23/15 12:40	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/23/15 12:40	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/23/15 12:40	1
1,1-Dichloroethane	ND		1.0	ug/L			07/23/15 12:40	1
1,2-Dichloroethane	ND		0.50	ug/L			07/23/15 12:40	1
1,1-Dichloroethene	ND		1.0	ug/L			07/23/15 12:40	1
1,2-Dichloropropane	ND		1.0	ug/L			07/23/15 12:40	1
1,3-Dichloropropane	ND		1.0	ug/L			07/23/15 12:40	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: EPA-MP4D-GW-16072015

Lab Sample ID: 440-115580-9
Date Collected: 07/16/15 13:55
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	ug/L			07/23/15 12:40	1
1,1-Dichloropropene	ND		1.0	ug/L			07/23/15 12:40	1
Ethylbenzene	ND		1.0	ug/L			07/23/15 12:40	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/23/15 12:40	1
Hexachlorobutadiene	ND		2.0	ug/L			07/23/15 12:40	1
2-Hexanone	ND		10	ug/L			07/23/15 12:40	1
Isopropylbenzene	ND		1.0	ug/L			07/23/15 12:40	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/23/15 12:40	1
Methylene Chloride	ND		5.0	ug/L			07/23/15 12:40	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/23/15 12:40	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/23/15 12:40	1
m,p-Xylene	ND		1.0	ug/L			07/23/15 12:40	1
Naphthalene	ND		5.0	ug/L			07/23/15 12:40	1
n-Butylbenzene	ND		2.0	ug/L			07/23/15 12:40	1
N-Propylbenzene	ND		2.0	ug/L			07/23/15 12:40	1
o-Xylene	ND		1.0	ug/L			07/23/15 12:40	1
p-Isopropyltoluene	ND		2.0	ug/L			07/23/15 12:40	1
sec-Butylbenzene	ND		2.0	ug/L			07/23/15 12:40	1
Styrene	ND		1.0	ug/L			07/23/15 12:40	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 12:40	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 12:40	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 12:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 12:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 12:40	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 12:40	1
Toluene	ND		1.0	ug/L			07/23/15 12:40	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 12:40	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 12:40	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 12:40	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 12:40	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 12:40	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 12:40	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 12:40	1
Trichloroethene	**2.5**		1.0	ug/L			07/23/15 12:40	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 12:40	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 12:40	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 12:40	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 12:40	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 12:40	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/23/15 12:40*	*1*
Dibromofluoromethane (Surr)	*118*		*76 - 132*		*07/23/15 12:40*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/23/15 12:40*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/23/15 14:56	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: 16072015D-3

Date Collected: 07/16/15 00:01
Date Received: 07/17/15 17:30

Lab Sample ID: 440-115580-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/23/15 13:07	1
Benzene	ND		0.50		ug/L			07/23/15 13:07	1
Bromobenzene	ND		1.0		ug/L			07/23/15 13:07	1
Bromochloromethane	ND		1.0		ug/L			07/23/15 13:07	1
Bromodichloromethane	ND		1.0		ug/L			07/23/15 13:07	1
Bromoform	ND		1.0		ug/L			07/23/15 13:07	1
Bromomethane	ND		2.0		ug/L			07/23/15 13:07	1
1,3-Butadiene	ND		1.0		ug/L			07/23/15 13:07	1
2-Butanone (MEK)	ND		10		ug/L			07/23/15 13:07	1
Carbon disulfide	ND		2.0		ug/L			07/23/15 13:07	1
Carbon tetrachloride	ND		1.0		ug/L			07/23/15 13:07	1
Chlorobenzene	ND		1.0		ug/L			07/23/15 13:07	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/23/15 13:07	1
Chloroethane	ND		1.0		ug/L			07/23/15 13:07	1
Chloroform	ND		1.0		ug/L			07/23/15 13:07	1
Chloromethane	ND		1.0		ug/L			07/23/15 13:07	1
2-Chlorotoluene	ND		2.0		ug/L			07/23/15 13:07	1
4-Chlorotoluene	ND		2.0		ug/L			07/23/15 13:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 13:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 13:07	1
Dibromochloromethane	ND		1.0		ug/L			07/23/15 13:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 13:07	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/23/15 13:07	1
Dibromomethane	ND		1.0		ug/L			07/23/15 13:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/23/15 13:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/23/15 13:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/23/15 13:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/23/15 13:07	1
1,1-Dichloroethane	ND		1.0		ug/L			07/23/15 13:07	1
1,2-Dichloroethane	ND		0.50		ug/L			07/23/15 13:07	1
1,1-Dichloroethene	ND		1.0		ug/L			07/23/15 13:07	1
1,2-Dichloropropane	ND		1.0		ug/L			07/23/15 13:07	1
1,3-Dichloropropane	ND		1.0		ug/L			07/23/15 13:07	1
2,2-Dichloropropane	ND		1.0		ug/L			07/23/15 13:07	1
1,1-Dichloropropene	ND		1.0		ug/L			07/23/15 13:07	1
Ethylbenzene	ND		1.0		ug/L			07/23/15 13:07	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/23/15 13:07	1
Hexachlorobutadiene	ND		2.0		ug/L			07/23/15 13:07	1
2-Hexanone	ND		10		ug/L			07/23/15 13:07	1
Isopropylbenzene	ND		1.0		ug/L			07/23/15 13:07	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/23/15 13:07	1
Methylene Chloride	ND		5.0		ug/L			07/23/15 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/23/15 13:07	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/23/15 13:07	1
m,p-Xylene	ND		1.0		ug/L			07/23/15 13:07	1
Naphthalene	ND		5.0		ug/L			07/23/15 13:07	1
n-Butylbenzene	ND		2.0		ug/L			07/23/15 13:07	1
N-Propylbenzene	ND		2.0		ug/L			07/23/15 13:07	1
o-Xylene	ND		1.0		ug/L			07/23/15 13:07	1

Client Sample ID: 16072015D-3

Lab Sample ID: 440-115580-10

Date Collected: 07/16/15 00:01
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/23/15 13:07	1
sec-Butylbenzene	ND		2.0	ug/L			07/23/15 13:07	1
Styrene	ND		1.0	ug/L			07/23/15 13:07	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 13:07	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 13:07	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 13:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 13:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 13:07	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 13:07	1
Toluene	ND		1.0	ug/L			07/23/15 13:07	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 13:07	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 13:07	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 13:07	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 13:07	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 13:07	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 13:07	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 13:07	1
Trichloroethene	**1.3**		1.0	ug/L			07/23/15 13:07	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 13:07	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 13:07	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 13:07	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 13:07	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 13:07	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/23/15 13:07*	*1*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*07/23/15 13:07*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/23/15 13:07*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/23/15 15:14	1

Client Sample ID: 16072015D-1

Lab Sample ID: 440-115580-11

Date Collected: 07/16/15 00:01
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 13:34	1
Benzene	ND		0.50	ug/L			07/23/15 13:34	1
Bromobenzene	ND		1.0	ug/L			07/23/15 13:34	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 13:34	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 13:34	1
Bromoform	ND		1.0	ug/L			07/23/15 13:34	1
Bromomethane	ND		2.0	ug/L			07/23/15 13:34	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 13:34	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 13:34	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 13:34	1

Client Sample ID: 16072015D-1

Date Collected: 07/16/15 00:01
Date Received: 07/17/15 17:30

Lab Sample ID: 440-115580-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0		ug/L			07/23/15 13:34	1
Chlorobenzene	ND		1.0		ug/L			07/23/15 13:34	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/23/15 13:34	1
Chloroethane	ND		1.0		ug/L			07/23/15 13:34	1
Chloroform	ND		1.0		ug/L			07/23/15 13:34	1
Chloromethane	ND		1.0		ug/L			07/23/15 13:34	1
2-Chlorotoluene	ND		2.0		ug/L			07/23/15 13:34	1
4-Chlorotoluene	ND		2.0		ug/L			07/23/15 13:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 13:34	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 13:34	1
Dibromochloromethane	ND		1.0		ug/L			07/23/15 13:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 13:34	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/23/15 13:34	1
Dibromomethane	ND		1.0		ug/L			07/23/15 13:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/23/15 13:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/23/15 13:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/23/15 13:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/23/15 13:34	1
1,1-Dichloroethane	ND		1.0		ug/L			07/23/15 13:34	1
1,2-Dichloroethane	ND		0.50		ug/L			07/23/15 13:34	1
1,1-Dichloroethene	ND		1.0		ug/L			07/23/15 13:34	1
1,2-Dichloropropane	ND		1.0		ug/L			07/23/15 13:34	1
1,3-Dichloropropane	ND		1.0		ug/L			07/23/15 13:34	1
2,2-Dichloropropane	ND		1.0		ug/L			07/23/15 13:34	1
1,1-Dichloropropene	ND		1.0		ug/L			07/23/15 13:34	1
Ethylbenzene	ND		1.0		ug/L			07/23/15 13:34	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/23/15 13:34	1
Hexachlorobutadiene	ND		2.0		ug/L			07/23/15 13:34	1
2-Hexanone	ND		10		ug/L			07/23/15 13:34	1
Isopropylbenzene	ND		1.0		ug/L			07/23/15 13:34	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/23/15 13:34	1
Methylene Chloride	ND		5.0		ug/L			07/23/15 13:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/23/15 13:34	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/23/15 13:34	1
m,p-Xylene	ND		1.0		ug/L			07/23/15 13:34	1
Naphthalene	ND		5.0		ug/L			07/23/15 13:34	1
n-Butylbenzene	ND		2.0		ug/L			07/23/15 13:34	1
N-Propylbenzene	ND		2.0		ug/L			07/23/15 13:34	1
o-Xylene	ND		1.0		ug/L			07/23/15 13:34	1
p-Isopropyltoluene	ND		2.0		ug/L			07/23/15 13:34	1
sec-Butylbenzene	ND		2.0		ug/L			07/23/15 13:34	1
Styrene	ND		1.0		ug/L			07/23/15 13:34	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/23/15 13:34	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/23/15 13:34	1
tert-Butylbenzene	ND		2.0		ug/L			07/23/15 13:34	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/23/15 13:34	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/23/15 13:34	1
Tetrachloroethene	ND		1.0		ug/L			07/23/15 13:34	1
Toluene	ND		1.0		ug/L			07/23/15 13:34	1

Client Sample ID: 16072015D-1

Lab Sample ID: 440-115580-11

Date Collected: 07/16/15 00:01

Matrix: Water

Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 13:34	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 13:34	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 13:34	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 13:34	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 13:34	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 13:34	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 13:34	1
Trichloroethene	ND		1.0	ug/L			07/23/15 13:34	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 13:34	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 13:34	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 13:34	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 13:34	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 13:34	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/23/15 13:34*	*1*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*07/23/15 13:34*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/23/15 13:34*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/23/15 15:32	1

Client Sample ID: 16072015D-2

Lab Sample ID: 440-115580-12

Date Collected: 07/16/15 00:01

Matrix: Water

Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/22/15 14:05	1
Benzene	ND		0.50	ug/L			07/22/15 14:05	1
Bromobenzene	ND		1.0	ug/L			07/22/15 14:05	1
Bromochloromethane	ND		1.0	ug/L			07/22/15 14:05	1
Bromodichloromethane	ND		1.0	ug/L			07/22/15 14:05	1
Bromoform	ND		1.0	ug/L			07/22/15 14:05	1
Bromomethane	ND		2.0	ug/L			07/22/15 14:05	1
1,3-Butadiene	ND		1.0	ug/L			07/22/15 14:05	1
2-Butanone (MEK)	ND		10	ug/L			07/22/15 14:05	1
Carbon disulfide	ND		2.0	ug/L			07/22/15 14:05	1
Carbon tetrachloride	ND		1.0	ug/L			07/22/15 14:05	1
Chlorobenzene	ND		1.0	ug/L			07/22/15 14:05	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/22/15 14:05	1
Chloroethane	ND		1.0	ug/L			07/22/15 14:05	1
Chloroform	ND		1.0	ug/L			07/22/15 14:05	1
Chloromethane	ND		1.0	ug/L			07/22/15 14:05	1
2-Chlorotoluene	ND		2.0	ug/L			07/22/15 14:05	1
4-Chlorotoluene	ND		2.0	ug/L			07/22/15 14:05	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 14:05	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 14:05	1

Client Sample ID: 16072015D-2
Date Collected: 07/16/15 00:01
Date Received: 07/17/15 17:30

Lab Sample ID: 440-115580-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	ug/L			07/22/15 14:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/22/15 14:05	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/22/15 14:05	1
Dibromomethane	ND		1.0	ug/L			07/22/15 14:05	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/22/15 14:05	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/22/15 14:05	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/22/15 14:05	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/22/15 14:05	1
1,1-Dichloroethane	ND		1.0	ug/L			07/22/15 14:05	1
1,2-Dichloroethane	ND		0.50	ug/L			07/22/15 14:05	1
1,1-Dichloroethene	ND		1.0	ug/L			07/22/15 14:05	1
1,2-Dichloropropane	ND		1.0	ug/L			07/22/15 14:05	1
1,3-Dichloropropane	ND		1.0	ug/L			07/22/15 14:05	1
2,2-Dichloropropane	ND		1.0	ug/L			07/22/15 14:05	1
1,1-Dichloropropene	ND		1.0	ug/L			07/22/15 14:05	1
Ethylbenzene	ND		1.0	ug/L			07/22/15 14:05	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/22/15 14:05	1
Hexachlorobutadiene	ND		2.0	ug/L			07/22/15 14:05	1
2-Hexanone	ND		10	ug/L			07/22/15 14:05	1
Isopropylbenzene	ND		1.0	ug/L			07/22/15 14:05	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/22/15 14:05	1
Methylene Chloride	ND		5.0	ug/L			07/22/15 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/22/15 14:05	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/22/15 14:05	1
m,p-Xylene	ND		1.0	ug/L			07/22/15 14:05	1
Naphthalene	ND		5.0	ug/L			07/22/15 14:05	1
n-Butylbenzene	ND		2.0	ug/L			07/22/15 14:05	1
N-Propylbenzene	ND		2.0	ug/L			07/22/15 14:05	1
o-Xylene	ND		1.0	ug/L			07/22/15 14:05	1
p-Isopropyltoluene	ND		2.0	ug/L			07/22/15 14:05	1
sec-Butylbenzene	ND		2.0	ug/L			07/22/15 14:05	1
Styrene	ND		1.0	ug/L			07/22/15 14:05	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/22/15 14:05	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/22/15 14:05	1
tert-Butylbenzene	ND		2.0	ug/L			07/22/15 14:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 14:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 14:05	1
Tetrachloroethene	ND		1.0	ug/L			07/22/15 14:05	1
Toluene	ND		1.0	ug/L			07/22/15 14:05	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/22/15 14:05	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 14:05	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 14:05	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/22/15 14:05	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 14:05	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 14:05	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 14:05	1
Trichloroethene	**2.8**		1.0	ug/L			07/22/15 14:05	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 14:05	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 14:05	1

Client Sample ID: 16072015D-2

Lab Sample ID: 440-115580-12

Date Collected: 07/16/15 00:01
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 14:05	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 14:05	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 14:05	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/22/15 14:05*	*1*
Dibromofluoromethane (Surr)	*119*		*76 - 132*		*07/22/15 14:05*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/22/15 14:05*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/23/15 16:26	1

Client Sample ID: EPA-MP4C-GW-16072015

Lab Sample ID: 440-115580-13

Date Collected: 07/16/15 14:40
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/22/15 14:32	1
Benzene	ND		0.50	ug/L			07/22/15 14:32	1
Bromobenzene	ND		1.0	ug/L			07/22/15 14:32	1
Bromochloromethane	ND		1.0	ug/L			07/22/15 14:32	1
Bromodichloromethane	ND		1.0	ug/L			07/22/15 14:32	1
Bromoform	ND		1.0	ug/L			07/22/15 14:32	1
Bromomethane	ND		2.0	ug/L			07/22/15 14:32	1
1,3-Butadiene	ND		1.0	ug/L			07/22/15 14:32	1
2-Butanone (MEK)	ND		10	ug/L			07/22/15 14:32	1
Carbon disulfide	ND		2.0	ug/L			07/22/15 14:32	1
Carbon tetrachloride	ND		1.0	ug/L			07/22/15 14:32	1
Chlorobenzene	ND		1.0	ug/L			07/22/15 14:32	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/22/15 14:32	1
Chloroethane	ND		1.0	ug/L			07/22/15 14:32	1
Chloroform	ND		1.0	ug/L			07/22/15 14:32	1
Chloromethane	ND		1.0	ug/L			07/22/15 14:32	1
2-Chlorotoluene	ND		2.0	ug/L			07/22/15 14:32	1
4-Chlorotoluene	ND		2.0	ug/L			07/22/15 14:32	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 14:32	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 14:32	1
Dibromochloromethane	ND		1.0	ug/L			07/22/15 14:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/22/15 14:32	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/22/15 14:32	1
Dibromomethane	ND		1.0	ug/L			07/22/15 14:32	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/22/15 14:32	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/22/15 14:32	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/22/15 14:32	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/22/15 14:32	1
1,1-Dichloroethane	ND		1.0	ug/L			07/22/15 14:32	1
1,2-Dichloroethane	ND		0.50	ug/L			07/22/15 14:32	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: EPA-MP4C-GW-16072015

Lab Sample ID: 440-115580-13

Date Collected: 07/16/15 14:40
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	ug/L			07/22/15 14:32	1
1,2-Dichloropropane	ND		1.0	ug/L			07/22/15 14:32	1
1,3-Dichloropropane	ND		1.0	ug/L			07/22/15 14:32	1
2,2-Dichloropropane	ND		1.0	ug/L			07/22/15 14:32	1
1,1-Dichloropropene	ND		1.0	ug/L			07/22/15 14:32	1
Ethylbenzene	ND		1.0	ug/L			07/22/15 14:32	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/22/15 14:32	1
Hexachlorobutadiene	ND		2.0	ug/L			07/22/15 14:32	1
2-Hexanone	ND		10	ug/L			07/22/15 14:32	1
Isopropylbenzene	ND		1.0	ug/L			07/22/15 14:32	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/22/15 14:32	1
Methylene Chloride	ND		5.0	ug/L			07/22/15 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/22/15 14:32	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/22/15 14:32	1
m,p-Xylene	ND		1.0	ug/L			07/22/15 14:32	1
Naphthalene	ND		5.0	ug/L			07/22/15 14:32	1
n-Butylbenzene	ND		2.0	ug/L			07/22/15 14:32	1
N-Propylbenzene	ND		2.0	ug/L			07/22/15 14:32	1
o-Xylene	ND		1.0	ug/L			07/22/15 14:32	1
p-Isopropyltoluene	ND		2.0	ug/L			07/22/15 14:32	1
sec-Butylbenzene	ND		2.0	ug/L			07/22/15 14:32	1
Styrene	ND		1.0	ug/L			07/22/15 14:32	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/22/15 14:32	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/22/15 14:32	1
tert-Butylbenzene	ND		2.0	ug/L			07/22/15 14:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 14:32	1
Tetrachloroethene	ND		1.0	ug/L			07/22/15 14:32	1
Toluene	ND		1.0	ug/L			07/22/15 14:32	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/22/15 14:32	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 14:32	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 14:32	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/22/15 14:32	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 14:32	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 14:32	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 14:32	1
Trichloroethene	**1.9**		1.0	ug/L			07/22/15 14:32	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 14:32	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 14:32	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 14:32	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 14:32	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 14:32	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/22/15 14:32*	*1*
Dibromofluoromethane (Surr)	*115*		*76 - 132*		*07/22/15 14:32*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*07/22/15 14:32*	*1*

Client Sample ID: EPA-MP4C-GW-16072015

Lab Sample ID: 440-115580-13

Date Collected: 07/16/15 14:40
Matrix: Water
Date Received: 07/17/15 17:30

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/23/15 16:44	1

Client Sample ID: EPA-MP4B-GW-16072015

Lab Sample ID: 440-115580-14

Date Collected: 07/16/15 15:05
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/22/15 15:00	1
Benzene	ND		0.50		ug/L			07/22/15 15:00	1
Bromobenzene	ND		1.0		ug/L			07/22/15 15:00	1
Bromochloromethane	ND		1.0		ug/L			07/22/15 15:00	1
Bromodichloromethane	ND		1.0		ug/L			07/22/15 15:00	1
Bromoform	ND		1.0		ug/L			07/22/15 15:00	1
Bromomethane	ND		2.0		ug/L			07/22/15 15:00	1
1,3-Butadiene	ND		1.0		ug/L			07/22/15 15:00	1
2-Butanone (MEK)	ND		10		ug/L			07/22/15 15:00	1
Carbon disulfide	ND		2.0		ug/L			07/22/15 15:00	1
Carbon tetrachloride	ND		1.0		ug/L			07/22/15 15:00	1
Chlorobenzene	ND		1.0		ug/L			07/22/15 15:00	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/22/15 15:00	1
Chloroethane	ND		1.0		ug/L			07/22/15 15:00	1
Chloroform	ND		1.0		ug/L			07/22/15 15:00	1
Chloromethane	ND		1.0		ug/L			07/22/15 15:00	1
2-Chlorotoluene	ND		2.0		ug/L			07/22/15 15:00	1
4-Chlorotoluene	ND		2.0		ug/L			07/22/15 15:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 15:00	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 15:00	1
Dibromochloromethane	ND		1.0		ug/L			07/22/15 15:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/22/15 15:00	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/22/15 15:00	1
Dibromomethane	ND		1.0		ug/L			07/22/15 15:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/22/15 15:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/22/15 15:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/22/15 15:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/22/15 15:00	1
1,1-Dichloroethane	ND		1.0		ug/L			07/22/15 15:00	1
1,2-Dichloroethane	ND		0.50		ug/L			07/22/15 15:00	1
1,1-Dichloroethene	ND		1.0		ug/L			07/22/15 15:00	1
1,2-Dichloropropane	ND		1.0		ug/L			07/22/15 15:00	1
1,3-Dichloropropane	ND		1.0		ug/L			07/22/15 15:00	1
2,2-Dichloropropane	ND		1.0		ug/L			07/22/15 15:00	1
1,1-Dichloropropene	ND		1.0		ug/L			07/22/15 15:00	1
Ethylbenzene	ND		1.0		ug/L			07/22/15 15:00	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/22/15 15:00	1
Hexachlorobutadiene	ND		2.0		ug/L			07/22/15 15:00	1
2-Hexanone	ND		10		ug/L			07/22/15 15:00	1
Isopropylbenzene	ND		1.0		ug/L			07/22/15 15:00	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/22/15 15:00	1
Methylene Chloride	ND		5.0		ug/L			07/22/15 15:00	1

Client Sample ID: EPA-MP4B-GW-16072015

Lab Sample ID: 440-115580-14

Date Collected: 07/16/15 15:05
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/22/15 15:00	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/22/15 15:00	1
m,p-Xylene	ND		1.0	ug/L			07/22/15 15:00	1
Naphthalene	ND		5.0	ug/L			07/22/15 15:00	1
n-Butylbenzene	ND		2.0	ug/L			07/22/15 15:00	1
N-Propylbenzene	ND		2.0	ug/L			07/22/15 15:00	1
o-Xylene	ND		1.0	ug/L			07/22/15 15:00	1
p-Isopropyltoluene	ND		2.0	ug/L			07/22/15 15:00	1
sec-Butylbenzene	ND		2.0	ug/L			07/22/15 15:00	1
Styrene	ND		1.0	ug/L			07/22/15 15:00	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/22/15 15:00	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/22/15 15:00	1
tert-Butylbenzene	ND		2.0	ug/L			07/22/15 15:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 15:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 15:00	1
Tetrachloroethene	ND		1.0	ug/L			07/22/15 15:00	1
Toluene	ND		1.0	ug/L			07/22/15 15:00	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/22/15 15:00	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 15:00	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 15:00	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/22/15 15:00	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 15:00	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 15:00	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 15:00	1
Trichloroethene	ND		1.0	ug/L			07/22/15 15:00	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 15:00	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 15:00	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 15:00	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 15:00	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 15:00	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/22/15 15:00*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*07/22/15 15:00*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/22/15 15:00*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/23/15 17:02	1

Client Sample ID: EPA-MP4A-GW-16072015

Lab Sample ID: 440-115580-15

Date Collected: 07/16/15 15:45
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/22/15 15:27	1
Benzene	ND		0.50	ug/L			07/22/15 15:27	1
Bromobenzene	ND		1.0	ug/L			07/22/15 15:27	1

Client Sample ID: EPA-MP4A-GW-16072015

Lab Sample ID: 440-115580-15

Date Collected: 07/16/15 15:45

Matrix: Water

Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		1.0		ug/L			07/22/15 15:27	1
Bromodichloromethane	ND		1.0		ug/L			07/22/15 15:27	1
Bromoform	ND		1.0		ug/L			07/22/15 15:27	1
Bromomethane	ND		2.0		ug/L			07/22/15 15:27	1
1,3-Butadiene	ND		1.0		ug/L			07/22/15 15:27	1
2-Butanone (MEK)	ND		10		ug/L			07/22/15 15:27	1
Carbon disulfide	ND		2.0		ug/L			07/22/15 15:27	1
Carbon tetrachloride	ND		1.0		ug/L			07/22/15 15:27	1
Chlorobenzene	ND		1.0		ug/L			07/22/15 15:27	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/22/15 15:27	1
Chloroethane	ND		1.0		ug/L			07/22/15 15:27	1
Chloroform	ND		1.0		ug/L			07/22/15 15:27	1
Chloromethane	ND		1.0		ug/L			07/22/15 15:27	1
2-Chlorotoluene	ND		2.0		ug/L			07/22/15 15:27	1
4-Chlorotoluene	ND		2.0		ug/L			07/22/15 15:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 15:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 15:27	1
Dibromochloromethane	ND		1.0		ug/L			07/22/15 15:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/22/15 15:27	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/22/15 15:27	1
Dibromomethane	ND		1.0		ug/L			07/22/15 15:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/22/15 15:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/22/15 15:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/22/15 15:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/22/15 15:27	1
1,1-Dichloroethane	ND		1.0		ug/L			07/22/15 15:27	1
1,2-Dichloroethane	ND		0.50		ug/L			07/22/15 15:27	1
1,1-Dichloroethene	ND		1.0		ug/L			07/22/15 15:27	1
1,2-Dichloropropane	ND		1.0		ug/L			07/22/15 15:27	1
1,3-Dichloropropane	ND		1.0		ug/L			07/22/15 15:27	1
2,2-Dichloropropane	ND		1.0		ug/L			07/22/15 15:27	1
1,1-Dichloropropene	ND		1.0		ug/L			07/22/15 15:27	1
Ethylbenzene	ND		1.0		ug/L			07/22/15 15:27	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/22/15 15:27	1
Hexachlorobutadiene	ND		2.0		ug/L			07/22/15 15:27	1
2-Hexanone	ND		10		ug/L			07/22/15 15:27	1
Isopropylbenzene	ND		1.0		ug/L			07/22/15 15:27	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/22/15 15:27	1
Methylene Chloride	ND		5.0		ug/L			07/22/15 15:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/22/15 15:27	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/22/15 15:27	1
m,p-Xylene	ND		1.0		ug/L			07/22/15 15:27	1
Naphthalene	ND		5.0		ug/L			07/22/15 15:27	1
n-Butylbenzene	ND		2.0		ug/L			07/22/15 15:27	1
N-Propylbenzene	ND		2.0		ug/L			07/22/15 15:27	1
o-Xylene	ND		1.0		ug/L			07/22/15 15:27	1
p-Isopropyltoluene	ND		2.0		ug/L			07/22/15 15:27	1
sec-Butylbenzene	ND		2.0		ug/L			07/22/15 15:27	1
Styrene	ND		1.0		ug/L			07/22/15 15:27	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: EPA-MP4A-GW-16072015

Lab Sample ID: 440-115580-15

Date Collected: 07/16/15 15:45
Matrix: Water
Date Received: 07/17/15 17:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/22/15 15:27	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/22/15 15:27	1
tert-Butylbenzene	ND		2.0	ug/L			07/22/15 15:27	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 15:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/22/15 15:27	1
Tetrachloroethene	ND		1.0	ug/L			07/22/15 15:27	1
Toluene	ND		1.0	ug/L			07/22/15 15:27	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/22/15 15:27	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/22/15 15:27	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/22/15 15:27	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/22/15 15:27	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/22/15 15:27	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/22/15 15:27	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 15:27	1
Trichloroethene	ND		1.0	ug/L			07/22/15 15:27	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 15:27	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 15:27	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 15:27	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 15:27	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 15:27	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*07/22/15 15:27*	*1*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*07/22/15 15:27*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/22/15 15:27*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/23/15 17:20	1

Method Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
314.0 LL	Perchlorate (IC)	EPA	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: 16072015TB-1 — Lab Sample ID: 440-115580-1

Date Collected: 07/16/15 08:00 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 16:21	SS	TAL IRV

Client Sample ID: 16072015EB-1 — Lab Sample ID: 440-115580-2

Date Collected: 07/16/15 10:15 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 15:54	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 13:09	CH	TAL IRV

Client Sample ID: PW-5E-GW-16072015 — Lab Sample ID: 440-115580-3

Date Collected: 07/16/15 09:05 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 09:03	SS	TAL IRV
Total/NA	Analysis	314.0 LL		10	1 mL		268699	07/23/15 17:38	CH	TAL IRV

Client Sample ID: PW-5D-GW-16072015 — Lab Sample ID: 440-115580-4

Date Collected: 07/16/15 09:35 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 11:48	SS	TAL IRV
Total/NA	Analysis	314.0 LL		10	1 mL		268979	07/24/15 09:30	CH	TAL IRV

Client Sample ID: PW-5C-GW-16072015 — Lab Sample ID: 440-115580-5

Date Collected: 07/16/15 10:00 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 12:16	SS	TAL IRV
Total/NA	Analysis	314.0 LL		10	1 mL		268699	07/23/15 17:56	CH	TAL IRV

Client Sample ID: PW-5B-GW-16072015 — Lab Sample ID: 440-115580-6

Date Collected: 07/16/15 10:40 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 12:43	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 14:02	CH	TAL IRV

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: PW-5A-GW-16072015 — Lab Sample ID: 440-115580-7

Date Collected: 07/16/15 11:10 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 13:10	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 14:20	CH	TAL IRV

Client Sample ID: EPA-MP4E-GW-16072015 — Lab Sample ID: 440-115580-8

Date Collected: 07/16/15 13:25 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	268708	07/23/15 12:12	LB	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	268600	07/23/15 02:56	AA	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 14:38	CH	TAL IRV

Client Sample ID: EPA-MP4D-GW-16072015 — Lab Sample ID: 440-115580-9

Date Collected: 07/16/15 13:55 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 12:40	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 14:56	CH	TAL IRV

Client Sample ID: 16072015D-3 — Lab Sample ID: 440-115580-10

Date Collected: 07/16/15 00:01 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 13:07	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 15:14	CH	TAL IRV

Client Sample ID: 16072015D-1 — Lab Sample ID: 440-115580-11

Date Collected: 07/16/15 00:01 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 13:34	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 15:32	CH	TAL IRV

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Client Sample ID: 16072015D-2 — Lab Sample ID: 440-115580-12

Date Collected: 07/16/15 00:01 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 14:05	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 16:26	CH	TAL IRV

Client Sample ID: EPA-MP4C-GW-16072015 — Lab Sample ID: 440-115580-13

Date Collected: 07/16/15 14:40 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 14:32	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 16:44	CH	TAL IRV

Client Sample ID: EPA-MP4B-GW-16072015 — Lab Sample ID: 440-115580-14

Date Collected: 07/16/15 15:05 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 15:00	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 17:02	CH	TAL IRV

Client Sample ID: EPA-MP4A-GW-16072015 — Lab Sample ID: 440-115580-15

Date Collected: 07/16/15 15:45 — **Matrix: Water**
Date Received: 07/17/15 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268396	07/22/15 15:27	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268699	07/23/15 17:20	CH	TAL IRV

Laboratory References:
TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-268396/4
Matrix: Water
Analysis Batch: 268396

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/22/15 07:31	1
Benzene	ND		0.50		ug/L			07/22/15 07:31	1
Bromobenzene	ND		1.0		ug/L			07/22/15 07:31	1
Bromochloromethane	ND		1.0		ug/L			07/22/15 07:31	1
Bromodichloromethane	ND		1.0		ug/L			07/22/15 07:31	1
Bromoform	ND		1.0		ug/L			07/22/15 07:31	1
Bromomethane	ND		2.0		ug/L			07/22/15 07:31	1
1,3-Butadiene	ND		1.0		ug/L			07/22/15 07:31	1
2-Butanone (MEK)	ND		10		ug/L			07/22/15 07:31	1
Carbon disulfide	ND		2.0		ug/L			07/22/15 07:31	1
Carbon tetrachloride	ND		1.0		ug/L			07/22/15 07:31	1
Chlorobenzene	ND		1.0		ug/L			07/22/15 07:31	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/22/15 07:31	1
Chloroethane	ND		1.0		ug/L			07/22/15 07:31	1
Chloroform	ND		1.0		ug/L			07/22/15 07:31	1
Chloromethane	ND		1.0		ug/L			07/22/15 07:31	1
2-Chlorotoluene	ND		2.0		ug/L			07/22/15 07:31	1
4-Chlorotoluene	ND		2.0		ug/L			07/22/15 07:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 07:31	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 07:31	1
Dibromochloromethane	ND		1.0		ug/L			07/22/15 07:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/22/15 07:31	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/22/15 07:31	1
Dibromomethane	ND		1.0		ug/L			07/22/15 07:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/22/15 07:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/22/15 07:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/22/15 07:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/22/15 07:31	1
1,1-Dichloroethane	ND		1.0		ug/L			07/22/15 07:31	1
1,2-Dichloroethane	ND		0.50		ug/L			07/22/15 07:31	1
1,1-Dichloroethene	ND		1.0		ug/L			07/22/15 07:31	1
1,2-Dichloropropane	ND		1.0		ug/L			07/22/15 07:31	1
1,3-Dichloropropane	ND		1.0		ug/L			07/22/15 07:31	1
2,2-Dichloropropane	ND		1.0		ug/L			07/22/15 07:31	1
1,1-Dichloropropene	ND		1.0		ug/L			07/22/15 07:31	1
Ethylbenzene	ND		1.0		ug/L			07/22/15 07:31	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/22/15 07:31	1
Hexachlorobutadiene	ND		2.0		ug/L			07/22/15 07:31	1
2-Hexanone	ND		10		ug/L			07/22/15 07:31	1
Isopropylbenzene	ND		1.0		ug/L			07/22/15 07:31	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/22/15 07:31	1
Methylene Chloride	ND		5.0		ug/L			07/22/15 07:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/22/15 07:31	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/22/15 07:31	1
m,p-Xylene	ND		1.0		ug/L			07/22/15 07:31	1
Naphthalene	ND		5.0		ug/L			07/22/15 07:31	1
n-Butylbenzene	ND		2.0		ug/L			07/22/15 07:31	1
N-Propylbenzene	ND		2.0		ug/L			07/22/15 07:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-268396/4
Matrix: Water
Analysis Batch: 268396

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			07/22/15 07:31	1
p-Isopropyltoluene	ND		2.0		ug/L			07/22/15 07:31	1
sec-Butylbenzene	ND		2.0		ug/L			07/22/15 07:31	1
Styrene	ND		1.0		ug/L			07/22/15 07:31	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/22/15 07:31	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/22/15 07:31	1
tert-Butylbenzene	ND		2.0		ug/L			07/22/15 07:31	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/22/15 07:31	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/22/15 07:31	1
Tetrachloroethene	ND		1.0		ug/L			07/22/15 07:31	1
Toluene	ND		1.0		ug/L			07/22/15 07:31	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/22/15 07:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 07:31	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 07:31	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/22/15 07:31	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/22/15 07:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/22/15 07:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/22/15 07:31	1
Trichloroethene	ND		1.0		ug/L			07/22/15 07:31	1
Trichlorofluoromethane	ND		1.0		ug/L			07/22/15 07:31	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/22/15 07:31	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/22/15 07:31	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/22/15 07:31	1
Vinyl chloride	ND		0.50		ug/L			07/22/15 07:31	1
Xylenes, Total	ND		2.0		ug/L			07/22/15 07:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/22/15 07:31*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*07/22/15 07:31*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/22/15 07:31*	*1*

Lab Sample ID: LCS 440-268396/5
Matrix: Water
Analysis Batch: 268396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	24.0		ug/L		96	10 - 150
Benzene	25.0	25.8		ug/L		103	68 - 130
Bromobenzene	25.0	25.0		ug/L		100	70 - 130
Bromochloromethane	25.0	28.5		ug/L		114	70 - 130
Bromodichloromethane	25.0	27.3		ug/L		109	70 - 132
Bromoform	25.0	25.8		ug/L		103	60 - 148
Bromomethane	25.0	29.8		ug/L		119	64 - 139
2-Butanone (MEK)	25.0	26.6		ug/L		106	44 - 150
Carbon disulfide	25.0	25.1		ug/L		100	52 - 136
Carbon tetrachloride	25.0	28.5		ug/L		114	60 - 150
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130
Chloroethane	25.0	26.5		ug/L		106	64 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-268396/5
Matrix: Water
Analysis Batch: 268396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	27.1		ug/L		109	70 - 130
Chloromethane	25.0	27.1		ug/L		108	47 - 140
2-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	70 - 133
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 133
Dibromochloromethane	25.0	25.8		ug/L		103	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	52 - 140
1,2-Dibromoethane (EDB)	25.0	26.9		ug/L		108	70 - 130
Dibromomethane	25.0	27.4		ug/L		109	70 - 130
1,2-Dichlorobenzene	25.0	26.1		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
Dichlorodifluoromethane	25.0	25.0		ug/L		100	29 - 150
1,1-Dichloroethane	25.0	25.2		ug/L		101	64 - 130
1,2-Dichloroethane	25.0	27.3		ug/L		109	57 - 138
1,1-Dichloroethene	25.0	26.4		ug/L		106	70 - 130
1,2-Dichloropropane	25.0	25.5		ug/L		102	67 - 130
1,3-Dichloropropane	25.0	24.0		ug/L		96	70 - 130
2,2-Dichloropropane	25.0	27.8		ug/L		111	68 - 141
1,1-Dichloropropene	25.0	25.6		ug/L		102	70 - 130
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	28.1		ug/L		112	60 - 136
Hexachlorobutadiene	25.0	25.8		ug/L		103	10 - 150
2-Hexanone	25.0	22.1		ug/L		89	10 - 150
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 136
Isopropyl Ether (DIPE)	25.0	27.2		ug/L		109	58 - 139
Methylene Chloride	25.0	25.3		ug/L		101	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	23.2		ug/L		93	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	26.3		ug/L		105	63 - 131
m,p-Xylene	25.0	24.7		ug/L		99	70 - 130
Naphthalene	25.0	25.5		ug/L		102	60 - 140
n-Butylbenzene	25.0	23.9		ug/L		96	65 - 150
N-Propylbenzene	25.0	24.4		ug/L		98	67 - 139
o-Xylene	25.0	24.1		ug/L		96	70 - 130
p-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 132
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 138
Styrene	25.0	26.1		ug/L		104	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	27.4		ug/L		110	57 - 139
tert-Butyl alcohol (TBA)	250	252		ug/L		101	70 - 130
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.6		ug/L		107	60 - 141
1,1,2,2-Tetrachloroethane	25.0	23.4		ug/L		94	63 - 130
Tetrachloroethene	25.0	26.2		ug/L		105	70 - 130
Toluene	25.0	24.3		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	27.0		ug/L		108	70 - 130
trans-1,3-Dichloropropene	25.0	25.1		ug/L		101	70 - 132
1,2,3-Trichlorobenzene	25.0	26.1		ug/L		104	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-268396/5
Matrix: Water
Analysis Batch: 268396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	60 - 140
1,1,1-Trichloroethane	25.0	26.8		ug/L		107	70 - 130
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130
Trichloroethene	25.0	27.5		ug/L		110	70 - 130
Trichlorofluoromethane	25.0	27.7		ug/L		111	60 - 150
1,2,3-Trichloropropane	25.0	22.8		ug/L		91	63 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 135
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		97	70 - 136
Vinyl chloride	25.0	26.8		ug/L		107	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: 440-115580-3 MS
Matrix: Water
Analysis Batch: 268396

Client Sample ID: PW-5E-GW-16072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	23.1		ug/L		92	10 - 150
Benzene	ND		25.0	25.7		ug/L		103	66 - 130
Bromobenzene	ND		25.0	25.4		ug/L		102	70 - 130
Bromochloromethane	ND		25.0	29.7		ug/L		119	70 - 130
Bromodichloromethane	ND		25.0	27.5		ug/L		110	70 - 138
Bromoform	ND		25.0	26.9		ug/L		108	59 - 150
Bromomethane	ND		25.0	29.2		ug/L		117	62 - 131
2-Butanone (MEK)	ND		25.0	25.7		ug/L		103	48 - 140
Carbon disulfide	ND		25.0	26.5		ug/L		106	49 - 140
Carbon tetrachloride	ND		25.0	28.8		ug/L		115	60 - 150
Chlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130
Chloroethane	ND		25.0	26.6		ug/L		106	68 - 130
Chloroform	ND		25.0	27.3		ug/L		109	70 - 130
Chloromethane	ND		25.0	27.0		ug/L		108	39 - 144
2-Chlorotoluene	ND		25.0	24.0		ug/L		96	70 - 130
4-Chlorotoluene	ND		25.0	24.6		ug/L		98	70 - 130
cis-1,2-Dichloroethene	ND		25.0	26.1		ug/L		104	70 - 130
cis-1,3-Dichloropropene	ND		25.0	26.5		ug/L		106	70 - 133
Dibromochloromethane	ND		25.0	26.8		ug/L		107	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	24.3		ug/L		97	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	27.5		ug/L		110	70 - 131
Dibromomethane	ND		25.0	27.6		ug/L		111	70 - 130
1,2-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130
Dichlorodifluoromethane	ND		25.0	25.1		ug/L		100	25 - 142
1,1-Dichloroethane	ND		25.0	25.4		ug/L		102	65 - 130
1,2-Dichloroethane	ND		25.0	27.2		ug/L		109	56 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115580-3 MS
Matrix: Water
Analysis Batch: 268396

Client Sample ID: PW-5E-GW-16072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		25.0	27.1		ug/L		108	70 - 130
1,2-Dichloropropane	ND		25.0	24.6		ug/L		98	69 - 130
1,3-Dichloropropane	ND		25.0	24.5		ug/L		98	70 - 130
2,2-Dichloropropane	ND		25.0	27.2		ug/L		109	69 - 138
1,1-Dichloropropene	ND		25.0	26.0		ug/L		104	64 - 130
Ethylbenzene	ND		25.0	25.6		ug/L		102	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	27.8		ug/L		111	70 - 130
Hexachlorobutadiene	ND		25.0	26.2		ug/L		105	10 - 150
2-Hexanone	ND		25.0	23.2		ug/L		93	10 - 150
Isopropylbenzene	ND		25.0	26.1		ug/L		104	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	27.2		ug/L		109	64 - 138
Methylene Chloride	ND		25.0	25.3		ug/L		101	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	24.3		ug/L		97	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	26.7		ug/L		107	70 - 130
m,p-Xylene	ND		25.0	25.9		ug/L		104	70 - 133
Naphthalene	ND		25.0	26.6		ug/L		106	60 - 140
n-Butylbenzene	ND		25.0	24.4		ug/L		98	61 - 149
N-Propylbenzene	ND		25.0	24.4		ug/L		98	66 - 135
o-Xylene	ND		25.0	24.7		ug/L		99	70 - 133
p-Isopropyltoluene	ND		25.0	25.1		ug/L		100	70 - 130
sec-Butylbenzene	ND		25.0	24.4		ug/L		98	67 - 134
Styrene	ND		25.0	26.2		ug/L		105	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	28.1		ug/L		113	68 - 133
tert-Butyl alcohol (TBA)	ND		250	260		ug/L		104	70 - 130
tert-Butylbenzene	ND		25.0	25.6		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	27.1		ug/L		109	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	24.1		ug/L		96	63 - 130
Tetrachloroethene	ND		25.0	27.3		ug/L		109	70 - 137
Toluene	ND		25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.6		ug/L		110	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	26.6		ug/L		106	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.8		ug/L		107	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.3		ug/L		109	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.6		ug/L		103	70 - 130
Trichloroethene	22		25.0	49.6		ug/L		109	70 - 130
Trichlorofluoromethane	ND		25.0	28.3		ug/L		113	60 - 150
1,2,3-Trichloropropane	ND		25.0	23.3		ug/L		93	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	24.5		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	24.4		ug/L		97	70 - 130
Vinyl chloride	ND		25.0	26.3		ug/L		105	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
Toluene-d8 (Surr)	*108*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115580-3 MSD
Matrix: Water
Analysis Batch: 268396

Client Sample ID: PW-5E-GW-16072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	21.5		ug/L		86	10 - 150	7	35
Benzene	ND		25.0	25.4		ug/L		102	66 - 130	1	20
Bromobenzene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
Bromochloromethane	ND		25.0	29.3		ug/L		117	70 - 130	2	25
Bromodichloromethane	ND		25.0	27.2		ug/L		109	70 - 138	1	20
Bromoform	ND		25.0	26.3		ug/L		105	59 - 150	2	25
Bromomethane	ND		25.0	29.2		ug/L		117	62 - 131	0	25
2-Butanone (MEK)	ND		25.0	25.4		ug/L		102	48 - 140	1	40
Carbon disulfide	ND		25.0	25.2		ug/L		101	49 - 140	5	20
Carbon tetrachloride	ND		25.0	28.4		ug/L		114	60 - 150	1	25
Chlorobenzene	ND		25.0	24.4		ug/L		98	70 - 130	4	20
Chloroethane	ND		25.0	26.6		ug/L		106	68 - 130	0	25
Chloroform	ND		25.0	27.8		ug/L		111	70 - 130	2	20
Chloromethane	ND		25.0	26.6		ug/L		107	39 - 144	1	25
2-Chlorotoluene	ND		25.0	24.6		ug/L		98	70 - 130	3	20
4-Chlorotoluene	ND		25.0	24.7		ug/L		99	70 - 130	1	20
cis-1,2-Dichloroethene	ND		25.0	26.3		ug/L		105	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	25.5		ug/L		102	70 - 133	4	20
Dibromochloromethane	ND		25.0	25.6		ug/L		102	70 - 148	5	25
1,2-Dibromo-3-Chloropropane	ND		25.0	26.2		ug/L		105	48 - 140	7	30
1,2-Dibromoethane (EDB)	ND		25.0	26.7		ug/L		107	70 - 131	3	25
Dibromomethane	ND		25.0	27.2		ug/L		109	70 - 130	2	25
1,2-Dichlorobenzene	ND		25.0	26.8		ug/L		107	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130	3	20
1,4-Dichlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	1	20
Dichlorodifluoromethane	ND		25.0	24.3		ug/L		97	25 - 142	3	30
1,1-Dichloroethane	ND		25.0	25.1		ug/L		100	65 - 130	1	20
1,2-Dichloroethane	ND		25.0	27.9		ug/L		112	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	27.2		ug/L		109	70 - 130	0	20
1,2-Dichloropropane	ND		25.0	24.8		ug/L		99	69 - 130	1	20
1,3-Dichloropropane	ND		25.0	23.7		ug/L		95	70 - 130	3	25
2,2-Dichloropropane	ND		25.0	27.2		ug/L		109	69 - 138	0	25
1,1-Dichloropropene	ND		25.0	26.3		ug/L		105	64 - 130	1	20
Ethylbenzene	ND		25.0	23.8		ug/L		95	70 - 130	7	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	27.9		ug/L		112	70 - 130	1	25
Hexachlorobutadiene	ND		25.0	26.5		ug/L		106	10 - 150	1	20
2-Hexanone	ND		25.0	21.6		ug/L		87	10 - 150	7	35
Isopropylbenzene	ND		25.0	25.1		ug/L		101	70 - 132	4	20
Isopropyl Ether (DIPE)	ND		25.0	27.5		ug/L		110	64 - 138	1	25
Methylene Chloride	ND		25.0	24.6		ug/L		99	52 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.1		ug/L		92	52 - 150	5	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	26.6		ug/L		106	70 - 130	0	25
m,p-Xylene	ND		25.0	24.8		ug/L		99	70 - 133	5	25
Naphthalene	ND		25.0	26.9		ug/L		108	60 - 140	1	30
n-Butylbenzene	ND		25.0	24.3		ug/L		97	61 - 149	0	20
N-Propylbenzene	ND		25.0	24.6		ug/L		98	66 - 135	1	20
o-Xylene	ND		25.0	23.5		ug/L		94	70 - 133	5	20
p-Isopropyltoluene	ND		25.0	25.1		ug/L		100	70 - 130	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115580-3 MSD — **Client Sample ID: PW-5E-GW-16072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268396

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	24.9		ug/L		99	67 - 134	2	20
Styrene	ND		25.0	25.2		ug/L		101	29 - 150	4	35
Tert-amyl-methyl ether (TAME)	ND		25.0	27.3		ug/L		109	68 - 133	3	30
tert-Butyl alcohol (TBA)	ND		250	260		ug/L		104	70 - 130	0	25
tert-Butylbenzene	ND		25.0	25.6		ug/L		102	70 - 130	0	20
1,1,1,2-Tetrachloroethane	ND		25.0	25.8		ug/L		103	60 - 149	5	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.2		ug/L		97	63 - 130	1	30
Tetrachloroethene	ND		25.0	26.0		ug/L		104	70 - 137	5	20
Toluene	ND		25.0	23.8		ug/L		95	70 - 130	6	20
trans-1,2-Dichloroethene	ND		25.0	26.9		ug/L		107	70 - 130	3	20
trans-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	70 - 138	5	25
1,2,3-Trichlorobenzene	ND		25.0	26.7		ug/L		107	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		25.0	27.3		ug/L		109	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	26.8		ug/L		107	70 - 130	2	20
1,1,2-Trichloroethane	ND		25.0	24.5		ug/L		98	70 - 130	5	25
Trichloroethene	22		25.0	49.0		ug/L		107	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	27.7		ug/L		111	60 - 150	2	25
1,2,3-Trichloropropane	ND		25.0	23.6		ug/L		94	60 - 130	2	30
1,2,4-Trimethylbenzene	ND		25.0	24.6		ug/L		98	70 - 130	0	25
1,3,5-Trimethylbenzene	ND		25.0	24.8		ug/L		99	70 - 130	2	20
Vinyl chloride	ND		25.0	25.9		ug/L		104	50 - 137	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*114*		*76 - 132*
Toluene-d8 (Surr)	*102*		*80 - 128*

Lab Sample ID: MB 440-268600/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268600

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/22/15 19:50	1
Benzene	ND		0.50		ug/L			07/22/15 19:50	1
Bromobenzene	ND		1.0		ug/L			07/22/15 19:50	1
Bromochloromethane	ND		1.0		ug/L			07/22/15 19:50	1
Bromodichloromethane	ND		1.0		ug/L			07/22/15 19:50	1
Bromoform	ND		1.0		ug/L			07/22/15 19:50	1
Bromomethane	ND		2.0		ug/L			07/22/15 19:50	1
1,3-Butadiene	ND		1.0		ug/L			07/22/15 19:50	1
2-Butanone (MEK)	ND		10		ug/L			07/22/15 19:50	1
Carbon disulfide	ND		2.0		ug/L			07/22/15 19:50	1
Carbon tetrachloride	ND		1.0		ug/L			07/22/15 19:50	1
Chlorobenzene	ND		1.0		ug/L			07/22/15 19:50	1
Chloroethane	ND		1.0		ug/L			07/22/15 19:50	1
Chloroform	ND		1.0		ug/L			07/22/15 19:50	1
Chloromethane	ND		1.0		ug/L			07/22/15 19:50	1
2-Chlorotoluene	ND		2.0		ug/L			07/22/15 19:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-268600/4
Matrix: Water
Analysis Batch: 268600

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		2.0		ug/L			07/22/15 19:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 19:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 19:50	1
Dibromochloromethane	ND		1.0		ug/L			07/22/15 19:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/22/15 19:50	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/22/15 19:50	1
Dibromomethane	ND		1.0		ug/L			07/22/15 19:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/22/15 19:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/22/15 19:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/22/15 19:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/22/15 19:50	1
1,1-Dichloroethane	ND		1.0		ug/L			07/22/15 19:50	1
1,2-Dichloroethane	ND		0.50		ug/L			07/22/15 19:50	1
1,1-Dichloroethene	ND		1.0		ug/L			07/22/15 19:50	1
1,2-Dichloropropane	ND		1.0		ug/L			07/22/15 19:50	1
1,3-Dichloropropane	ND		1.0		ug/L			07/22/15 19:50	1
2,2-Dichloropropane	ND		1.0		ug/L			07/22/15 19:50	1
1,1-Dichloropropene	ND		1.0		ug/L			07/22/15 19:50	1
Ethylbenzene	ND		1.0		ug/L			07/22/15 19:50	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/22/15 19:50	1
Hexachlorobutadiene	ND		2.0		ug/L			07/22/15 19:50	1
2-Hexanone	ND		10		ug/L			07/22/15 19:50	1
Isopropylbenzene	ND		1.0		ug/L			07/22/15 19:50	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/22/15 19:50	1
Methylene Chloride	ND		5.0		ug/L			07/22/15 19:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/22/15 19:50	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/22/15 19:50	1
m,p-Xylene	ND		1.0		ug/L			07/22/15 19:50	1
Naphthalene	ND		5.0		ug/L			07/22/15 19:50	1
n-Butylbenzene	ND		2.0		ug/L			07/22/15 19:50	1
N-Propylbenzene	ND		2.0		ug/L			07/22/15 19:50	1
o-Xylene	ND		1.0		ug/L			07/22/15 19:50	1
p-Isopropyltoluene	ND		2.0		ug/L			07/22/15 19:50	1
sec-Butylbenzene	ND		2.0		ug/L			07/22/15 19:50	1
Styrene	ND		1.0		ug/L			07/22/15 19:50	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/22/15 19:50	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/22/15 19:50	1
tert-Butylbenzene	ND		2.0		ug/L			07/22/15 19:50	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/22/15 19:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/22/15 19:50	1
Tetrachloroethene	ND		1.0		ug/L			07/22/15 19:50	1
Toluene	ND		1.0		ug/L			07/22/15 19:50	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/22/15 19:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/22/15 19:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/22/15 19:50	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/22/15 19:50	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/22/15 19:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/22/15 19:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-268600/4
Matrix: Water
Analysis Batch: 268600

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	ug/L			07/22/15 19:50	1
Trichloroethene	ND		1.0	ug/L			07/22/15 19:50	1
Trichlorofluoromethane	ND		1.0	ug/L			07/22/15 19:50	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/22/15 19:50	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/22/15 19:50	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/22/15 19:50	1
Vinyl chloride	ND		0.50	ug/L			07/22/15 19:50	1
Xylenes, Total	ND		2.0	ug/L			07/22/15 19:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/22/15 19:50*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*07/22/15 19:50*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/22/15 19:50*	*1*

Lab Sample ID: LCS 440-268600/5
Matrix: Water
Analysis Batch: 268600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	20.1		ug/L		81	10 - 150
Benzene	25.0	24.7		ug/L		99	68 - 130
Bromobenzene	25.0	25.4		ug/L		102	70 - 130
Bromochloromethane	25.0	26.6		ug/L		106	70 - 130
Bromodichloromethane	25.0	26.5		ug/L		106	70 - 132
Bromoform	25.0	29.1		ug/L		117	60 - 148
Bromomethane	25.0	27.5		ug/L		110	64 - 139
2-Butanone (MEK)	25.0	22.8		ug/L		91	44 - 150
Carbon disulfide	25.0	26.8		ug/L		107	52 - 136
Carbon tetrachloride	25.0	29.9		ug/L		120	60 - 150
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130
Chloroethane	25.0	27.5		ug/L		110	64 - 135
Chloroform	25.0	24.8		ug/L		99	70 - 130
Chloromethane	25.0	26.7		ug/L		107	47 - 140
2-Chlorotoluene	25.0	24.4		ug/L		97	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	70 - 133
cis-1,3-Dichloropropene	25.0	27.4		ug/L		109	70 - 133
Dibromochloromethane	25.0	29.3		ug/L		117	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	21.4		ug/L		85	52 - 140
1,2-Dibromoethane (EDB)	25.0	25.6		ug/L		103	70 - 130
Dibromomethane	25.0	24.8		ug/L		99	70 - 130
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
Dichlorodifluoromethane	25.0	28.1		ug/L		112	29 - 150
1,1-Dichloroethane	25.0	24.2		ug/L		97	64 - 130
1,2-Dichloroethane	25.0	23.1		ug/L		92	57 - 138
1,1-Dichloroethene	25.0	26.9		ug/L		108	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-268600/5
Matrix: Water
Analysis Batch: 268600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.5		ug/L		98	67 - 130
1,3-Dichloropropane	25.0	24.4		ug/L		97	70 - 130
2,2-Dichloropropane	25.0	31.1		ug/L		125	68 - 141
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
Ethylbenzene	25.0	24.2		ug/L		97	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	25.7		ug/L		103	60 - 136
Hexachlorobutadiene	25.0	26.7		ug/L		107	10 - 150
2-Hexanone	25.0	21.0		ug/L		84	10 - 150
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 136
Isopropyl Ether (DIPE)	25.0	24.9		ug/L		100	58 - 139
Methylene Chloride	25.0	26.7		ug/L		107	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	21.9		ug/L		88	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	23.1		ug/L		92	63 - 131
m,p-Xylene	25.0	25.6		ug/L		102	70 - 130
Naphthalene	25.0	24.1		ug/L		96	60 - 140
n-Butylbenzene	25.0	24.0		ug/L		96	65 - 150
N-Propylbenzene	25.0	24.3		ug/L		97	67 - 139
o-Xylene	25.0	25.7		ug/L		103	70 - 130
p-Isopropyltoluene	25.0	24.2		ug/L		97	70 - 132
sec-Butylbenzene	25.0	24.0		ug/L		96	70 - 138
Styrene	25.0	26.5		ug/L		106	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	29.5		ug/L		118	57 - 139
tert-Butyl alcohol (TBA)	250	269		ug/L		108	70 - 130
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	25.0	28.1		ug/L		112	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		96	63 - 130
Tetrachloroethene	25.0	26.5		ug/L		106	70 - 130
Toluene	25.0	24.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	27.3		ug/L		109	70 - 130
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 132
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		106	60 - 140
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1,2-Trichloroethane	25.0	25.1		ug/L		101	70 - 130
Trichloroethene	25.0	27.0		ug/L		108	70 - 130
Trichlorofluoromethane	25.0	24.6		ug/L		98	60 - 150
1,2,3-Trichloropropane	25.0	23.7		ug/L		95	63 - 130
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 135
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 136
Vinyl chloride	25.0	27.8		ug/L		111	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
Toluene-d8 (Surr)	*106*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-66107-B-4 MS
Matrix: Water
Analysis Batch: 268600

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	ND		ug/L		73	10 - 150
Benzene	ND		25.0	24.3		ug/L		97	66 - 130
Bromobenzene	ND		25.0	24.4		ug/L		98	70 - 130
Bromochloromethane	ND		25.0	25.7		ug/L		103	70 - 130
Bromodichloromethane	ND		25.0	25.8		ug/L		103	70 - 138
Bromoform	ND		25.0	28.3		ug/L		113	59 - 150
Bromomethane	ND		25.0	28.0		ug/L		112	62 - 131
2-Butanone (MEK)	ND		25.0	20.0		ug/L		80	48 - 140
Carbon disulfide	ND		25.0	26.7		ug/L		107	49 - 140
Carbon tetrachloride	ND		25.0	30.1		ug/L		120	60 - 150
Chlorobenzene	ND		25.0	24.1		ug/L		96	70 - 130
Chloroethane	ND		25.0	27.2		ug/L		109	68 - 130
Chloroform	ND		25.0	24.0		ug/L		96	70 - 130
Chloromethane	ND		25.0	26.1		ug/L		105	39 - 144
2-Chlorotoluene	ND		25.0	24.5		ug/L		98	70 - 130
4-Chlorotoluene	ND		25.0	24.5		ug/L		98	70 - 130
cis-1,2-Dichloroethene	ND		25.0	24.3		ug/L		97	70 - 130
cis-1,3-Dichloropropene	ND		25.0	26.1		ug/L		104	70 - 133
Dibromochloromethane	ND		25.0	28.4		ug/L		113	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	20.0		ug/L		80	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	24.4		ug/L		98	70 - 131
Dibromomethane	ND		25.0	23.9		ug/L		95	70 - 130
1,2-Dichlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.1		ug/L		97	70 - 130
Dichlorodifluoromethane	ND		25.0	29.9		ug/L		120	25 - 142
1,1-Dichloroethane	ND		25.0	24.5		ug/L		98	65 - 130
1,2-Dichloroethane	ND		25.0	22.4		ug/L		89	56 - 146
1,1-Dichloroethene	ND		25.0	27.7		ug/L		111	70 - 130
1,2-Dichloropropane	ND		25.0	24.2		ug/L		97	69 - 130
1,3-Dichloropropane	ND		25.0	23.9		ug/L		96	70 - 130
2,2-Dichloropropane	ND		25.0	34.0		ug/L		136	69 - 138
1,1-Dichloropropene	ND		25.0	25.4		ug/L		102	64 - 130
Ethylbenzene	ND		25.0	24.5		ug/L		98	70 - 130
Ethyl-t-butyl ether (ETBE)	ND	F1	25.0	10.6	F1	ug/L		42	70 - 130
Hexachlorobutadiene	ND		25.0	26.7		ug/L		107	10 - 150
2-Hexanone	ND		25.0	20.4		ug/L		81	10 - 150
Isopropylbenzene	ND		25.0	25.3		ug/L		101	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	24.1		ug/L		96	64 - 138
Methylene Chloride	ND		25.0	26.3		ug/L		105	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	21.4		ug/L		86	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND	F1	25.0	16.4	F1	ug/L		65	70 - 130
m,p-Xylene	ND		25.0	25.9		ug/L		104	70 - 133
Naphthalene	ND		25.0	23.5		ug/L		94	60 - 140
n-Butylbenzene	ND		25.0	24.4		ug/L		98	61 - 149
N-Propylbenzene	ND		25.0	24.7		ug/L		99	66 - 135
o-Xylene	ND		25.0	25.4		ug/L		102	70 - 133
p-Isopropyltoluene	ND		25.0	24.9		ug/L		99	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-66107-B-4 MS
Matrix: Water
Analysis Batch: 268600

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	ND		25.0	24.7		ug/L		99	67 - 134
Styrene	ND		25.0	25.7		ug/L		103	29 - 150
Tert-amyl-methyl ether (TAME)	ND	F1	25.0	7.89	F1	ug/L		32	68 - 133
tert-Butyl alcohol (TBA)	ND		250	268		ug/L		107	70 - 130
tert-Butylbenzene	ND		25.0	25.5		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	27.7		ug/L		111	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.7		ug/L		95	63 - 130
Tetrachloroethene	ND		25.0	27.2		ug/L		109	70 - 137
Toluene	ND		25.0	24.7		ug/L		99	70 - 130
trans-1,2-Dichloroethene	ND		25.0	26.8		ug/L		107	70 - 130
trans-1,3-Dichloropropene	ND		25.0	24.8		ug/L		99	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.4		ug/L		106	60 - 140
1,1,1-Trichloroethane	ND		25.0	26.4		ug/L		106	70 - 130
1,1,2-Trichloroethane	ND		25.0	24.9		ug/L		100	70 - 130
Trichloroethene	ND		25.0	26.7		ug/L		107	70 - 130
Trichlorofluoromethane	ND		25.0	26.5		ug/L		106	60 - 150
1,2,3-Trichloropropane	ND		25.0	24.4		ug/L		98	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	23.9		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	24.1		ug/L		96	70 - 130
Vinyl chloride	ND		25.0	29.0		ug/L		116	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: 720-66107-B-4 MSD
Matrix: Water
Analysis Batch: 268600

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	ND		ug/L		74	10 - 150	0	35
Benzene	ND		25.0	25.0		ug/L		100	66 - 130	3	20
Bromobenzene	ND		25.0	25.6		ug/L		102	70 - 130	5	20
Bromochloromethane	ND		25.0	25.5		ug/L		102	70 - 130	1	25
Bromodichloromethane	ND		25.0	26.3		ug/L		105	70 - 138	2	20
Bromoform	ND		25.0	29.9		ug/L		120	59 - 150	6	25
Bromomethane	ND		25.0	28.7		ug/L		115	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	23.2		ug/L		93	48 - 140	15	40
Carbon disulfide	ND		25.0	27.3		ug/L		109	49 - 140	2	20
Carbon tetrachloride	ND		25.0	30.6		ug/L		122	60 - 150	2	25
Chlorobenzene	ND		25.0	24.6		ug/L		99	70 - 130	2	20
Chloroethane	ND		25.0	28.8		ug/L		115	68 - 130	6	25
Chloroform	ND		25.0	24.4		ug/L		98	70 - 130	2	20
Chloromethane	ND		25.0	26.1		ug/L		104	39 - 144	0	25
2-Chlorotoluene	ND		25.0	25.0		ug/L		100	70 - 130	2	20
4-Chlorotoluene	ND		25.0	24.7		ug/L		99	70 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-66107-B-4 MSD
Matrix: Water
Analysis Batch: 268600

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130	3	20
cis-1,3-Dichloropropene	ND		25.0	27.1		ug/L		109	70 - 133	4	20
Dibromochloromethane	ND		25.0	28.9		ug/L		116	70 - 148	2	25
1,2-Dibromo-3-Chloropropane	ND		25.0	22.9		ug/L		91	48 - 140	13	30
1,2-Dibromoethane (EDB)	ND		25.0	25.9		ug/L		104	70 - 131	6	25
Dibromomethane	ND		25.0	24.5		ug/L		98	70 - 130	2	25
1,2-Dichlorobenzene	ND		25.0	24.9		ug/L		99	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130	0	20
1,4-Dichlorobenzene	ND		25.0	24.6		ug/L		99	70 - 130	2	20
Dichlorodifluoromethane	ND		25.0	28.9		ug/L		116	25 - 142	3	30
1,1-Dichloroethane	ND		25.0	24.6		ug/L		98	65 - 130	0	20
1,2-Dichloroethane	ND		25.0	22.4		ug/L		89	56 - 146	0	20
1,1-Dichloroethene	ND		25.0	28.4		ug/L		114	70 - 130	2	20
1,2-Dichloropropane	ND		25.0	24.7		ug/L		99	69 - 130	2	20
1,3-Dichloropropane	ND		25.0	24.3		ug/L		97	70 - 130	2	25
2,2-Dichloropropane	ND		25.0	33.7		ug/L		135	69 - 138	1	25
1,1-Dichloropropene	ND		25.0	25.9		ug/L		104	64 - 130	2	20
Ethylbenzene	ND		25.0	25.2		ug/L		101	70 - 130	3	20
Ethyl-t-butyl ether (ETBE)	ND	F1	25.0	12.3	F1	ug/L		49	70 - 130	15	25
Hexachlorobutadiene	ND		25.0	27.7		ug/L		111	10 - 150	4	20
2-Hexanone	ND		25.0	21.4		ug/L		86	10 - 150	5	35
Isopropylbenzene	ND		25.0	26.1		ug/L		104	70 - 132	3	20
Isopropyl Ether (DIPE)	ND		25.0	24.3		ug/L		97	64 - 138	1	25
Methylene Chloride	ND		25.0	26.7		ug/L		107	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	22.7		ug/L		91	52 - 150	6	35
Methyl-t-Butyl Ether (MTBE)	ND	F1	25.0	17.3	F1	ug/L		69	70 - 130	5	25
m,p-Xylene	ND		25.0	26.4		ug/L		106	70 - 133	2	25
Naphthalene	ND		25.0	24.2		ug/L		97	60 - 140	3	30
n-Butylbenzene	ND		25.0	25.2		ug/L		101	61 - 149	3	20
N-Propylbenzene	ND		25.0	25.2		ug/L		101	66 - 135	2	20
o-Xylene	ND		25.0	26.0		ug/L		104	70 - 133	2	20
p-Isopropyltoluene	ND		25.0	25.4		ug/L		102	70 - 130	2	20
sec-Butylbenzene	ND		25.0	25.3		ug/L		101	67 - 134	2	20
Styrene	ND		25.0	26.5		ug/L		106	29 - 150	3	35
Tert-amyl-methyl ether (TAME)	ND	F1	25.0	10.4	F1	ug/L		42	68 - 133	28	30
tert-Butyl alcohol (TBA)	ND		250	264		ug/L		106	70 - 130	1	25
tert-Butylbenzene	ND		25.0	25.9		ug/L		104	70 - 130	2	20
1,1,1,2-Tetrachloroethane	ND		25.0	28.6		ug/L		114	60 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.4		ug/L		98	63 - 130	3	30
Tetrachloroethene	ND		25.0	27.6		ug/L		110	70 - 137	1	20
Toluene	ND		25.0	25.2		ug/L		101	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	27.7		ug/L		111	70 - 130	3	20
trans-1,3-Dichloropropene	ND		25.0	25.9		ug/L		104	70 - 138	5	25
1,2,3-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140	0	20
1,2,4-Trichlorobenzene	ND		25.0	26.7		ug/L		107	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	26.7		ug/L		107	70 - 130	1	20
1,1,2-Trichloroethane	ND		25.0	25.3		ug/L		101	70 - 130	2	25
Trichloroethene	ND		25.0	27.3		ug/L		109	70 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-66107-B-4 MSD
Matrix: Water
Analysis Batch: 268600

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	ND		25.0	26.7		ug/L		107	60 - 150	1	25
1,2,3-Trichloropropane	ND		25.0	24.8		ug/L		99	60 - 130	1	30
1,2,4-Trimethylbenzene	ND		25.0	24.5		ug/L		98	70 - 130	2	25
1,3,5-Trimethylbenzene	ND		25.0	24.6		ug/L		98	70 - 130	2	20
Vinyl chloride	ND		25.0	29.2		ug/L		117	50 - 137	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: MB 440-268708/4
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 09:56	1
Benzene	ND		0.50	ug/L			07/23/15 09:56	1
Bromobenzene	ND		1.0	ug/L			07/23/15 09:56	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 09:56	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 09:56	1
Bromoform	ND		1.0	ug/L			07/23/15 09:56	1
Bromomethane	ND		2.0	ug/L			07/23/15 09:56	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 09:56	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 09:56	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 09:56	1
Carbon tetrachloride	ND		1.0	ug/L			07/23/15 09:56	1
Chlorobenzene	ND		1.0	ug/L			07/23/15 09:56	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/23/15 09:56	1
Chloroethane	ND		1.0	ug/L			07/23/15 09:56	1
Chloroform	ND		1.0	ug/L			07/23/15 09:56	1
Chloromethane	ND		1.0	ug/L			07/23/15 09:56	1
2-Chlorotoluene	ND		2.0	ug/L			07/23/15 09:56	1
4-Chlorotoluene	ND		2.0	ug/L			07/23/15 09:56	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 09:56	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 09:56	1
Dibromochloromethane	ND		1.0	ug/L			07/23/15 09:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/23/15 09:56	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/23/15 09:56	1
Dibromomethane	ND		1.0	ug/L			07/23/15 09:56	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/23/15 09:56	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/23/15 09:56	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/23/15 09:56	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/23/15 09:56	1
1,1-Dichloroethane	ND		1.0	ug/L			07/23/15 09:56	1
1,2-Dichloroethane	ND		0.50	ug/L			07/23/15 09:56	1
1,1-Dichloroethene	ND		1.0	ug/L			07/23/15 09:56	1
1,2-Dichloropropane	ND		1.0	ug/L			07/23/15 09:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-268708/4
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0		ug/L			07/23/15 09:56	1
2,2-Dichloropropane	ND		1.0		ug/L			07/23/15 09:56	1
1,1-Dichloropropene	ND		1.0		ug/L			07/23/15 09:56	1
Ethylbenzene	ND		1.0		ug/L			07/23/15 09:56	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/23/15 09:56	1
Hexachlorobutadiene	ND		2.0		ug/L			07/23/15 09:56	1
2-Hexanone	ND		10		ug/L			07/23/15 09:56	1
Isopropylbenzene	ND		1.0		ug/L			07/23/15 09:56	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/23/15 09:56	1
Methylene Chloride	ND		5.0		ug/L			07/23/15 09:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/23/15 09:56	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/23/15 09:56	1
m,p-Xylene	ND		1.0		ug/L			07/23/15 09:56	1
Naphthalene	ND		5.0		ug/L			07/23/15 09:56	1
n-Butylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
N-Propylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
o-Xylene	ND		1.0		ug/L			07/23/15 09:56	1
p-Isopropyltoluene	ND		2.0		ug/L			07/23/15 09:56	1
sec-Butylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
Styrene	ND		1.0		ug/L			07/23/15 09:56	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/23/15 09:56	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/23/15 09:56	1
tert-Butylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/23/15 09:56	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/23/15 09:56	1
Tetrachloroethene	ND		1.0		ug/L			07/23/15 09:56	1
Toluene	ND		1.0		ug/L			07/23/15 09:56	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/23/15 09:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 09:56	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 09:56	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/23/15 09:56	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/23/15 09:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/23/15 09:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/23/15 09:56	1
Trichloroethene	ND		1.0		ug/L			07/23/15 09:56	1
Trichlorofluoromethane	ND		1.0		ug/L			07/23/15 09:56	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/23/15 09:56	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
Vinyl chloride	ND		0.50		ug/L			07/23/15 09:56	1
Xylenes, Total	ND		2.0		ug/L			07/23/15 09:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/23/15 09:56*	*1*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*07/23/15 09:56*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*07/23/15 09:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-268708/5
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	23.7		ug/L		95	10 - 150
Benzene	25.0	26.4		ug/L		105	68 - 130
Bromobenzene	25.0	27.1		ug/L		108	70 - 130
Bromochloromethane	25.0	29.0		ug/L		116	70 - 130
Bromodichloromethane	25.0	28.3		ug/L		113	70 - 132
Bromoform	25.0	26.3		ug/L		105	60 - 148
Bromomethane	25.0	30.6		ug/L		122	64 - 139
2-Butanone (MEK)	25.0	25.1		ug/L		100	44 - 150
Carbon disulfide	25.0	26.7		ug/L		107	52 - 136
Carbon tetrachloride	25.0	31.2		ug/L		125	60 - 150
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130
Chloroethane	25.0	28.6		ug/L		114	64 - 135
Chloroform	25.0	28.9		ug/L		116	70 - 130
Chloromethane	25.0	29.4		ug/L		118	47 - 140
2-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130
4-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130
cis-1,2-Dichloroethene	25.0	27.0		ug/L		108	70 - 133
cis-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 133
Dibromochloromethane	25.0	26.1		ug/L		104	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	26.8		ug/L		107	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.6		ug/L		111	70 - 130
Dibromomethane	25.0	27.7		ug/L		111	70 - 130
1,2-Dichlorobenzene	25.0	27.1		ug/L		109	70 - 130
1,3-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	31.5		ug/L		126	29 - 150
1,1-Dichloroethane	25.0	25.7		ug/L		103	64 - 130
1,2-Dichloroethane	25.0	29.3		ug/L		117	57 - 138
1,1-Dichloroethene	25.0	28.2		ug/L		113	70 - 130
1,2-Dichloropropane	25.0	24.8		ug/L		99	67 - 130
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130
2,2-Dichloropropane	25.0	29.2		ug/L		117	68 - 141
1,1-Dichloropropene	25.0	27.4		ug/L		110	70 - 130
Ethylbenzene	25.0	25.4		ug/L		102	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	28.9		ug/L		115	60 - 136
Hexachlorobutadiene	25.0	27.4		ug/L		110	10 - 150
2-Hexanone	25.0	24.1		ug/L		96	10 - 150
Isopropylbenzene	25.0	26.7		ug/L		107	70 - 136
Isopropyl Ether (DIPE)	25.0	27.5		ug/L		110	58 - 139
Methylene Chloride	25.0	25.9		ug/L		104	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	24.0		ug/L		96	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	27.6		ug/L		111	63 - 131
m,p-Xylene	25.0	26.3		ug/L		105	70 - 130
Naphthalene	25.0	26.6		ug/L		106	60 - 140
n-Butylbenzene	25.0	25.1		ug/L		100	65 - 150
N-Propylbenzene	25.0	25.6		ug/L		102	67 - 139
o-Xylene	25.0	24.5		ug/L		98	70 - 130
p-Isopropyltoluene	25.0	26.5		ug/L		106	70 - 132

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-268708/5
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	25.0	25.3		ug/L		101	70 - 138
Styrene	25.0	26.0		ug/L		104	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	28.3		ug/L		113	57 - 139
tert-Butyl alcohol (TBA)	250	260		ug/L		104	70 - 130
tert-Butylbenzene	25.0	26.6		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.7		ug/L		111	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	63 - 130
Tetrachloroethene	25.0	27.4		ug/L		110	70 - 130
Toluene	25.0	25.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	28.5		ug/L		114	70 - 130
trans-1,3-Dichloropropene	25.0	25.6		ug/L		103	70 - 132
1,2,3-Trichlorobenzene	25.0	27.1		ug/L		109	60 - 140
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	60 - 140
1,1,1-Trichloroethane	25.0	29.5		ug/L		118	70 - 130
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
Trichloroethene	25.0	28.6		ug/L		115	70 - 130
Trichlorofluoromethane	25.0	31.2		ug/L		125	60 - 150
1,2,3-Trichloropropane	25.0	23.0		ug/L		92	63 - 130
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		102	70 - 135
1,3,5-Trimethylbenzene	25.0	25.6		ug/L		102	70 - 136
Vinyl chloride	25.0	29.0		ug/L		116	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
Toluene-d8 (Surr)	*103*		*80 - 128*

Lab Sample ID: 440-115677-A-3 MS
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	22.6		ug/L		90	10 - 150
Benzene	ND		25.0	25.7		ug/L		103	66 - 130
Bromobenzene	ND		25.0	25.3		ug/L		101	70 - 130
Bromochloromethane	ND		25.0	30.2		ug/L		121	70 - 130
Bromodichloromethane	ND		25.0	28.0		ug/L		112	70 - 138
Bromoform	ND		25.0	25.0		ug/L		100	59 - 150
Bromomethane	ND		25.0	30.8		ug/L		123	62 - 131
2-Butanone (MEK)	ND		25.0	25.1		ug/L		100	48 - 140
Carbon disulfide	ND		25.0	26.3		ug/L		105	49 - 140
Carbon tetrachloride	ND		25.0	30.8		ug/L		123	60 - 150
Chlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
Chloroethane	ND		25.0	27.5		ug/L		110	68 - 130
Chloroform	ND		25.0	28.7		ug/L		115	70 - 130
Chloromethane	ND		25.0	29.7		ug/L		119	39 - 144
2-Chlorotoluene	ND		25.0	24.3		ug/L		97	70 - 130
4-Chlorotoluene	ND		25.0	25.0		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115677-A-3 MS
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	ND		25.0	27.3		ug/L		109	70 - 130
cis-1,3-Dichloropropene	ND		25.0	25.9		ug/L		104	70 - 133
Dibromochloromethane	ND		25.0	26.1		ug/L		104	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	24.7		ug/L		99	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	27.5		ug/L		110	70 - 131
Dibromomethane	ND		25.0	27.9		ug/L		112	70 - 130
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130
Dichlorodifluoromethane	ND		25.0	30.7		ug/L		123	25 - 142
1,1-Dichloroethane	ND		25.0	25.8		ug/L		103	65 - 130
1,2-Dichloroethane	ND		25.0	29.0		ug/L		116	56 - 146
1,1-Dichloroethene	ND		25.0	27.4		ug/L		110	70 - 130
1,2-Dichloropropane	ND		25.0	25.0		ug/L		100	69 - 130
1,3-Dichloropropane	ND		25.0	23.7		ug/L		95	70 - 130
2,2-Dichloropropane	ND		25.0	28.5		ug/L		114	69 - 138
1,1-Dichloropropene	ND		25.0	27.6		ug/L		111	64 - 130
Ethylbenzene	ND		25.0	25.3		ug/L		101	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	28.5		ug/L		114	70 - 130
Hexachlorobutadiene	ND		25.0	27.0		ug/L		108	10 - 150
2-Hexanone	ND		25.0	22.6		ug/L		90	10 - 150
Isopropylbenzene	ND		25.0	26.0		ug/L		104	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	26.6		ug/L		106	64 - 138
Methylene Chloride	ND		25.0	25.5		ug/L		102	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.6		ug/L		94	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.4		ug/L		110	70 - 130
m,p-Xylene	ND		25.0	25.5		ug/L		102	70 - 133
Naphthalene	ND		25.0	26.0		ug/L		104	60 - 140
n-Butylbenzene	ND		25.0	24.5		ug/L		98	61 - 149
N-Propylbenzene	ND		25.0	24.5		ug/L		98	66 - 135
o-Xylene	ND		25.0	24.7		ug/L		99	70 - 133
p-Isopropyltoluene	ND		25.0	25.3		ug/L		101	70 - 130
sec-Butylbenzene	ND		25.0	24.5		ug/L		98	67 - 134
Styrene	ND		25.0	26.4		ug/L		105	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	27.9		ug/L		112	68 - 133
tert-Butyl alcohol (TBA)	ND		250	260		ug/L		104	70 - 130
tert-Butylbenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.3		ug/L		93	63 - 130
Tetrachloroethene	ND		25.0	27.2		ug/L		109	70 - 137
Toluene	ND		25.0	24.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	ND		25.0	28.0		ug/L		112	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.9		ug/L		104	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	26.3		ug/L		105	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.7		ug/L		107	60 - 140
1,1,1-Trichloroethane	ND		25.0	29.3		ug/L		117	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.4		ug/L		102	70 - 130
Trichloroethene	ND		25.0	29.1		ug/L		117	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115677-A-3 MS
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		25.0	30.6		ug/L		122	60 - 150
1,2,3-Trichloropropane	ND		25.0	22.2		ug/L		89	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	24.5		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	24.6		ug/L		98	70 - 130
Vinyl chloride	ND		25.0	28.9		ug/L		115	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*116*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: 440-115677-A-3 MSD
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	22.8		ug/L		91	10 - 150	1	35
Benzene	ND		25.0	25.4		ug/L		102	66 - 130	1	20
Bromobenzene	ND		25.0	25.7		ug/L		103	70 - 130	2	20
Bromochloromethane	ND		25.0	28.3		ug/L		113	70 - 130	6	25
Bromodichloromethane	ND		25.0	26.9		ug/L		108	70 - 138	4	20
Bromoform	ND		25.0	24.6		ug/L		98	59 - 150	2	25
Bromomethane	ND		25.0	29.7		ug/L		119	62 - 131	4	25
2-Butanone (MEK)	ND		25.0	25.2		ug/L		101	48 - 140	0	40
Carbon disulfide	ND		25.0	24.6		ug/L		98	49 - 140	7	20
Carbon tetrachloride	ND		25.0	29.8		ug/L		119	60 - 150	3	25
Chlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130	2	20
Chloroethane	ND		25.0	27.4		ug/L		110	68 - 130	0	25
Chloroform	ND		25.0	27.6		ug/L		110	70 - 130	4	20
Chloromethane	ND		25.0	27.5		ug/L		110	39 - 144	8	25
2-Chlorotoluene	ND		25.0	24.1		ug/L		96	70 - 130	1	20
4-Chlorotoluene	ND		25.0	24.2		ug/L		97	70 - 130	3	20
cis-1,2-Dichloroethene	ND		25.0	26.2		ug/L		105	70 - 130	4	20
cis-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	70 - 133	1	20
Dibromochloromethane	ND		25.0	25.6		ug/L		102	70 - 148	2	25
1,2-Dibromo-3-Chloropropane	ND		25.0	23.4		ug/L		94	48 - 140	5	30
1,2-Dibromoethane (EDB)	ND		25.0	26.9		ug/L		108	70 - 131	2	25
Dibromomethane	ND		25.0	27.5		ug/L		110	70 - 130	2	25
1,2-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	25.5		ug/L		102	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130	2	20
Dichlorodifluoromethane	ND		25.0	29.3		ug/L		117	25 - 142	5	30
1,1-Dichloroethane	ND		25.0	25.1		ug/L		100	65 - 130	3	20
1,2-Dichloroethane	ND		25.0	27.7		ug/L		111	56 - 146	5	20
1,1-Dichloroethene	ND		25.0	26.9		ug/L		108	70 - 130	2	20
1,2-Dichloropropane	ND		25.0	24.2		ug/L		97	69 - 130	3	20
1,3-Dichloropropane	ND		25.0	23.3		ug/L		93	70 - 130	2	25
2,2-Dichloropropane	ND		25.0	27.8		ug/L		111	69 - 138	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115677-A-3 MSD
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene	ND		25.0	26.3		ug/L		105	64 - 130	5	20
Ethylbenzene	ND		25.0	24.3		ug/L		97	70 - 130	4	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	27.1		ug/L		109	70 - 130	5	25
Hexachlorobutadiene	ND		25.0	26.5		ug/L		106	10 - 150	2	20
2-Hexanone	ND		25.0	22.2		ug/L		89	10 - 150	1	35
Isopropylbenzene	ND		25.0	25.8		ug/L		103	70 - 132	1	20
Isopropyl Ether (DIPE)	ND		25.0	26.3		ug/L		105	64 - 138	1	25
Methylene Chloride	ND		25.0	24.2		ug/L		97	52 - 130	5	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	22.5		ug/L		90	52 - 150	5	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.5		ug/L		102	70 - 130	7	25
m,p-Xylene	ND		25.0	25.4		ug/L		102	70 - 133	0	25
Naphthalene	ND		25.0	25.1		ug/L		100	60 - 140	3	30
n-Butylbenzene	ND		25.0	24.3		ug/L		97	61 - 149	1	20
N-Propylbenzene	ND		25.0	24.4		ug/L		98	66 - 135	0	20
o-Xylene	ND		25.0	23.9		ug/L		95	70 - 133	3	20
p-Isopropyltoluene	ND		25.0	25.0		ug/L		100	70 - 130	1	20
sec-Butylbenzene	ND		25.0	23.9		ug/L		96	67 - 134	2	20
Styrene	ND		25.0	25.2		ug/L		101	29 - 150	5	35
Tert-amyl-methyl ether (TAME)	ND		25.0	26.3		ug/L		105	68 - 133	6	30
tert-Butyl alcohol (TBA)	ND		250	255		ug/L		102	70 - 130	2	25
tert-Butylbenzene	ND		25.0	25.8		ug/L		103	70 - 130	0	20
1,1,1,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	60 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	23.2		ug/L		93	63 - 130	0	30
Tetrachloroethene	ND		25.0	27.2		ug/L		109	70 - 137	0	20
Toluene	ND		25.0	24.5		ug/L		98	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	27.0		ug/L		108	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	70 - 138	5	25
1,2,3-Trichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140	3	20
1,2,4-Trichlorobenzene	ND		25.0	26.1		ug/L		104	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	28.0		ug/L		112	70 - 130	4	20
1,1,2-Trichloroethane	ND		25.0	24.8		ug/L		99	70 - 130	2	25
Trichloroethene	ND		25.0	28.1		ug/L		113	70 - 130	3	20
Trichlorofluoromethane	ND		25.0	29.1		ug/L		116	60 - 150	5	25
1,2,3-Trichloropropane	ND		25.0	21.8		ug/L		87	60 - 130	2	30
1,2,4-Trimethylbenzene	ND		25.0	24.4		ug/L		97	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		25.0	24.6		ug/L		98	70 - 130	0	20
Vinyl chloride	ND		25.0	27.5		ug/L		110	50 - 137	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*76 - 132*
Toluene-d8 (Surr)	*106*		*80 - 128*

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 440-268699/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268699

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/23/15 08:14	1

Lab Sample ID: LCS 440-268699/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268699

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	27.4		ug/L		109	85 - 115		

Lab Sample ID: MRL 440-268699/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268699

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			4.00	4.19		ug/L		105	75 - 125		

Lab Sample ID: 440-115937-A-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	7.2		25.0	32.7		ug/L		102	80 - 120		

Lab Sample ID: 440-115937-A-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	7.2		25.0	32.7		ug/L		102	80 - 120	0	20

Lab Sample ID: MB 440-268979/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268979

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/24/15 08:31	1

Lab Sample ID: LCS 440-268979/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268979

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	25.9		ug/L		104	85 - 115		

Lab Sample ID: MRL 440-268979/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268979

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			4.00	4.06		ug/L		102	75 - 125		

QC Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Lab Sample ID: 440-115580-4 MS
Matrix: Water
Analysis Batch: 268979

Client Sample ID: PW-5D-GW-16072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	530		250	757		ug/L		90	80 - 120		

Lab Sample ID: 440-115580-4 MSD
Matrix: Water
Analysis Batch: 268979

Client Sample ID: PW-5D-GW-16072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	530		250	747		ug/L		86	80 - 120	1	20

QC Association Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

GC/MS VOA

Analysis Batch: 268396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115580-1	16072015TB-1	Total/NA	Water	8260B	
440-115580-2	16072015EB-1	Total/NA	Water	8260B	
440-115580-3	PW-5E-GW-16072015	Total/NA	Water	8260B	
440-115580-3 MS	PW-5E-GW-16072015	Total/NA	Water	8260B	
440-115580-3 MSD	PW-5E-GW-16072015	Total/NA	Water	8260B	
440-115580-4	PW-5D-GW-16072015	Total/NA	Water	8260B	
440-115580-5	PW-5C-GW-16072015	Total/NA	Water	8260B	
440-115580-6	PW-5B-GW-16072015	Total/NA	Water	8260B	
440-115580-7	PW-5A-GW-16072015	Total/NA	Water	8260B	
440-115580-12	16072015D-2	Total/NA	Water	8260B	
440-115580-13	EPA-MP4C-GW-16072015	Total/NA	Water	8260B	
440-115580-14	EPA-MP4B-GW-16072015	Total/NA	Water	8260B	
440-115580-15	EPA-MP4A-GW-16072015	Total/NA	Water	8260B	
LCS 440-268396/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-268396/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 268600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115580-8	EPA-MP4E-GW-16072015	Total/NA	Water	8260B	
720-66107-B-4 MS	Matrix Spike	Total/NA	Water	8260B	
720-66107-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-268600/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-268600/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 268708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115580-8 - RA	EPA-MP4E-GW-16072015	Total/NA	Water	8260B	
440-115580-9	EPA-MP4D-GW-16072015	Total/NA	Water	8260B	
440-115580-10	16072015D-3	Total/NA	Water	8260B	
440-115580-11	16072015D-1	Total/NA	Water	8260B	
440-115677-A-3 MS	Matrix Spike	Total/NA	Water	8260B	
440-115677-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-268708/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-268708/4	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 268699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115580-2	16072015EB-1	Total/NA	Water	314.0 LL	
440-115580-3	PW-5E-GW-16072015	Total/NA	Water	314.0 LL	
440-115580-5	PW-5C-GW-16072015	Total/NA	Water	314.0 LL	
440-115580-6	PW-5B-GW-16072015	Total/NA	Water	314.0 LL	
440-115580-7	PW-5A-GW-16072015	Total/NA	Water	314.0 LL	
440-115580-8	EPA-MP4E-GW-16072015	Total/NA	Water	314.0 LL	
440-115580-9	EPA-MP4D-GW-16072015	Total/NA	Water	314.0 LL	
440-115580-10	16072015D-3	Total/NA	Water	314.0 LL	
440-115580-11	16072015D-1	Total/NA	Water	314.0 LL	
440-115580-12	16072015D-2	Total/NA	Water	314.0 LL	
440-115580-13	EPA-MP4C-GW-16072015	Total/NA	Water	314.0 LL	

HPLC/IC (Continued)

Analysis Batch: 268699 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115580-14	EPA-MP4B-GW-16072015	Total/NA	Water	314.0 LL	
440-115580-15	EPA-MP4A-GW-16072015	Total/NA	Water	314.0 LL	
440-115937-A-1 MS	Matrix Spike	Total/NA	Water	314.0 LL	
440-115937-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
LCS 440-268699/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-268699/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-268699/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Analysis Batch: 268979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115580-4	PW-5D-GW-16072015	Total/NA	Water	314.0 LL	
440-115580-4 MS	PW-5D-GW-16072015	Total/NA	Water	314.0 LL	
440-115580-4 MSD	PW-5D-GW-16072015	Total/NA	Water	314.0 LL	
LCS 440-268979/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-268979/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-268979/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115580-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16

* Certification renewal pending - certification considered valid.

TestAmerica Irvine
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 16 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Thinh Hoang; Kevin Thompson
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
16072015TB-1	7/16/15	0800	G	W	3	N	N	X		
16072015EB-1	7/16/15	1015	G	W	4	N	N	X	X	
PW-5E-GW-16072015	7/16/15	0905	G	W	10	N	N	X	X	MS/MSD on VOCs only
PW-5D-GW-16072015	7/16/15	0935	G	W	6	N	N	X	X	MS/MSD on perchlorate only
PW-5C-GW-16072015	7/16/15	1005	G	W	4	N	N	X	X	
PW-5B-GW-16072015	7/16/15	1040	G	W	4	N	N	X	X	
PW-5A-GW-16072015	7/16/15	1110	G	W	4	N	N	X	X	
EPA-MP4E-GW-16072015	7/16/15	1325	G	W	4	N	N	X	X	
EPA-MP4D-GW-16072015	7/16/15	1355	G	W	4	N	N	X	X	
16072015D-3	7/16/15	—	G	W	4	N	N	X	X	
16072015D-1	7/16/15	—	G	W	4	N	N	X	X	
16072015~~D~~-2	7/16/15	—	G	W	4	N	N	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1,2 1

440-115580 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.0 Corr'd: 2.2 | Therm ID No.: 1274

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	07/16/15-1815	[signature] George Gerardo	DCS UPS	7/17/15 1600
[signature] George Gerardo	DCS	7/17/15 1730			
			Received in Laboratory by: [signature]	Company: TAI	Date/Time: 07/17/15 17:30

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 16 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	2 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Thinh Hoang; Kevin Thompson
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
EPA-MP4C-GW-16072015	7/16/15	1440	G	W	4	N	N	X	X	
EPA-MP4B-GW-16072015	7/16/15	1505	G	W	4	N	N	X	X	
EPA-MP4A-GW-16072015	7/16/15	1545	G	W	4	N	N	X	X	
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1,2 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.0 Corr'd: 2.2 | Therm ID No.: IR-74

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	07/16/15 1815	[signature] George Geraldo	DCS UTC	7/17/15 1600
Relinquished by: [signature] George Geraldo	Company: DCS	Date/Time: 7/17/15 1730	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAI	Date/Time: 07/17/15 17:30

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-115580-1

Login Number: 115580
List Number: 1
Creator: Escalante, Maria I

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-115677-1
Client Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

For:
AECOM, Inc.
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Ms. Rebecca Mora

Authorized for release by:
7/29/2015 5:30:09 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-115677-1	17072015TB-1	Water	07/17/15 07:30	07/20/15 17:15
440-115677-2	17072015EB-1	Water	07/17/15 10:05	07/20/15 17:15
440-115677-3	PW-7G-GW-17072015	Water	07/17/15 08:50	07/20/15 17:15
440-115677-4	PW-7F-GW-17072015	Water	07/17/15 09:25	07/20/15 17:15
440-115677-5	PW-7E-GW-17072015	Water	07/17/15 09:55	07/20/15 17:15
440-115677-6	PW-7D-GW-17072015	Water	07/17/15 10:25	07/20/15 17:15
440-115677-7	PW-7C-GW-17072015	Water	07/17/15 11:00	07/20/15 17:15
440-115677-8	PW-7B-GW-17072015	Water	07/17/15 11:25	07/20/15 17:15
440-115677-9	PW-8E-GW-17072015	Water	07/17/15 15:00	07/20/15 17:15
440-115677-10	17072015D-1	Water	07/17/15 00:01	07/20/15 17:15

Job ID: 440-115677-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-115677-1

Comments
No additional comments.

Receipt
The samples were received on 7/20/2015 5:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 440-268708 recovered above the upper control limit for 2,2-Dichloropropane. The following samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported: 17072015TB-1 (440-115677-1), 17072015EB-1 (440-115677-2), PW-7G-GW-17072015 (440-115677-3), PW-7F-GW-17072015 (440-115677-4), PW-7E-GW-17072015 (440-115677-5), PW-7D-GW-17072015 (440-115677-6), PW-7C-GW-17072015 (440-115677-7), PW-7B-GW-17072015 (440-115677-8), PW-8E-GW-17072015 (440-115677-9), 17072015D-1 (440-115677-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: 17072015TB-1

Date Collected: 07/17/15 07:30
Date Received: 07/20/15 17:15

Lab Sample ID: 440-115677-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/23/15 14:02	1
Benzene	ND		0.50		ug/L			07/23/15 14:02	1
Bromobenzene	ND		1.0		ug/L			07/23/15 14:02	1
Bromochloromethane	ND		1.0		ug/L			07/23/15 14:02	1
Bromodichloromethane	ND		1.0		ug/L			07/23/15 14:02	1
Bromoform	ND		1.0		ug/L			07/23/15 14:02	1
Bromomethane	ND		2.0		ug/L			07/23/15 14:02	1
1,3-Butadiene	ND		1.0		ug/L			07/23/15 14:02	1
2-Butanone (MEK)	ND		10		ug/L			07/23/15 14:02	1
Carbon disulfide	ND		2.0		ug/L			07/23/15 14:02	1
Carbon tetrachloride	ND		1.0		ug/L			07/23/15 14:02	1
Chlorobenzene	ND		1.0		ug/L			07/23/15 14:02	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/23/15 14:02	1
Chloroethane	ND		1.0		ug/L			07/23/15 14:02	1
Chloroform	ND		1.0		ug/L			07/23/15 14:02	1
Chloromethane	ND		1.0		ug/L			07/23/15 14:02	1
2-Chlorotoluene	ND		2.0		ug/L			07/23/15 14:02	1
4-Chlorotoluene	ND		2.0		ug/L			07/23/15 14:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 14:02	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 14:02	1
Dibromochloromethane	ND		1.0		ug/L			07/23/15 14:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 14:02	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/23/15 14:02	1
Dibromomethane	ND		1.0		ug/L			07/23/15 14:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/23/15 14:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/23/15 14:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/23/15 14:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/23/15 14:02	1
1,1-Dichloroethane	ND		1.0		ug/L			07/23/15 14:02	1
1,2-Dichloroethane	ND		0.50		ug/L			07/23/15 14:02	1
1,1-Dichloroethene	ND		1.0		ug/L			07/23/15 14:02	1
1,2-Dichloropropane	ND		1.0		ug/L			07/23/15 14:02	1
1,3-Dichloropropane	ND		1.0		ug/L			07/23/15 14:02	1
2,2-Dichloropropane	ND		1.0		ug/L			07/23/15 14:02	1
1,1-Dichloropropene	ND		1.0		ug/L			07/23/15 14:02	1
Ethylbenzene	ND		1.0		ug/L			07/23/15 14:02	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/23/15 14:02	1
Hexachlorobutadiene	ND		2.0		ug/L			07/23/15 14:02	1
2-Hexanone	ND		10		ug/L			07/23/15 14:02	1
Isopropylbenzene	ND		1.0		ug/L			07/23/15 14:02	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/23/15 14:02	1
Methylene Chloride	ND		5.0		ug/L			07/23/15 14:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/23/15 14:02	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/23/15 14:02	1
m,p-Xylene	ND		1.0		ug/L			07/23/15 14:02	1
Naphthalene	ND		5.0		ug/L			07/23/15 14:02	1
n-Butylbenzene	ND		2.0		ug/L			07/23/15 14:02	1
N-Propylbenzene	ND		2.0		ug/L			07/23/15 14:02	1
o-Xylene	ND		1.0		ug/L			07/23/15 14:02	1

Client Sample ID: 17072015TB-1

Lab Sample ID: 440-115677-1
Date Collected: 07/17/15 07:30
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/23/15 14:02	1
sec-Butylbenzene	ND		2.0	ug/L			07/23/15 14:02	1
Styrene	ND		1.0	ug/L			07/23/15 14:02	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 14:02	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 14:02	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 14:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 14:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 14:02	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 14:02	1
Toluene	ND		1.0	ug/L			07/23/15 14:02	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 14:02	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 14:02	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 14:02	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 14:02	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 14:02	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 14:02	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 14:02	1
Trichloroethene	ND		1.0	ug/L			07/23/15 14:02	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 14:02	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 14:02	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 14:02	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 14:02	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 14:02	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/23/15 14:02*	*1*
Dibromofluoromethane (Surr)	*117*		*76 - 132*		*07/23/15 14:02*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/23/15 14:02*	*1*

Client Sample ID: 17072015EB-1

Lab Sample ID: 440-115677-2
Date Collected: 07/17/15 10:05
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 14:30	1
Benzene	ND		0.50	ug/L			07/23/15 14:30	1
Bromobenzene	ND		1.0	ug/L			07/23/15 14:30	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 14:30	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 14:30	1
Bromoform	ND		1.0	ug/L			07/23/15 14:30	1
Bromomethane	ND		2.0	ug/L			07/23/15 14:30	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 14:30	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 14:30	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 14:30	1
Carbon tetrachloride	ND		1.0	ug/L			07/23/15 14:30	1
Chlorobenzene	ND		1.0	ug/L			07/23/15 14:30	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/23/15 14:30	1
Chloroethane	ND		1.0	ug/L			07/23/15 14:30	1

Client Sample ID: 17072015EB-1

Lab Sample ID: 440-115677-2

Date Collected: 07/17/15 10:05

Matrix: Water

Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0		ug/L			07/23/15 14:30	1
Chloromethane	ND		1.0		ug/L			07/23/15 14:30	1
2-Chlorotoluene	ND		2.0		ug/L			07/23/15 14:30	1
4-Chlorotoluene	ND		2.0		ug/L			07/23/15 14:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 14:30	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 14:30	1
Dibromochloromethane	ND		1.0		ug/L			07/23/15 14:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 14:30	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/23/15 14:30	1
Dibromomethane	ND		1.0		ug/L			07/23/15 14:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/23/15 14:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/23/15 14:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/23/15 14:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/23/15 14:30	1
1,1-Dichloroethane	ND		1.0		ug/L			07/23/15 14:30	1
1,2-Dichloroethane	ND		0.50		ug/L			07/23/15 14:30	1
1,1-Dichloroethene	ND		1.0		ug/L			07/23/15 14:30	1
1,2-Dichloropropane	ND		1.0		ug/L			07/23/15 14:30	1
1,3-Dichloropropane	ND		1.0		ug/L			07/23/15 14:30	1
2,2-Dichloropropane	ND		1.0		ug/L			07/23/15 14:30	1
1,1-Dichloropropene	ND		1.0		ug/L			07/23/15 14:30	1
Ethylbenzene	ND		1.0		ug/L			07/23/15 14:30	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/23/15 14:30	1
Hexachlorobutadiene	ND		2.0		ug/L			07/23/15 14:30	1
2-Hexanone	ND		10		ug/L			07/23/15 14:30	1
Isopropylbenzene	ND		1.0		ug/L			07/23/15 14:30	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/23/15 14:30	1
Methylene Chloride	ND		5.0		ug/L			07/23/15 14:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/23/15 14:30	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/23/15 14:30	1
m,p-Xylene	ND		1.0		ug/L			07/23/15 14:30	1
Naphthalene	ND		5.0		ug/L			07/23/15 14:30	1
n-Butylbenzene	ND		2.0		ug/L			07/23/15 14:30	1
N-Propylbenzene	ND		2.0		ug/L			07/23/15 14:30	1
o-Xylene	ND		1.0		ug/L			07/23/15 14:30	1
p-Isopropyltoluene	ND		2.0		ug/L			07/23/15 14:30	1
sec-Butylbenzene	ND		2.0		ug/L			07/23/15 14:30	1
Styrene	ND		1.0		ug/L			07/23/15 14:30	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/23/15 14:30	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/23/15 14:30	1
tert-Butylbenzene	ND		2.0		ug/L			07/23/15 14:30	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/23/15 14:30	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/23/15 14:30	1
Tetrachloroethene	ND		1.0		ug/L			07/23/15 14:30	1
Toluene	ND		1.0		ug/L			07/23/15 14:30	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/23/15 14:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 14:30	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 14:30	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/23/15 14:30	1

Client Sample ID: 17072015EB-1

Lab Sample ID: 440-115677-2
Date Collected: 07/17/15 10:05
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 14:30	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 14:30	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 14:30	1
Trichloroethene	ND		1.0	ug/L			07/23/15 14:30	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 14:30	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 14:30	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 14:30	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 14:30	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 14:30	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/23/15 14:30*	*1*
Dibromofluoromethane (Surr)	*119*		*76 - 132*		*07/23/15 14:30*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*07/23/15 14:30*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/24/15 10:51	1

Client Sample ID: PW-7G-GW-17072015

Lab Sample ID: 440-115677-3
Date Collected: 07/17/15 08:50
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 10:50	1
Benzene	ND		0.50	ug/L			07/23/15 10:50	1
Bromobenzene	ND		1.0	ug/L			07/23/15 10:50	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 10:50	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 10:50	1
Bromoform	ND		1.0	ug/L			07/23/15 10:50	1
Bromomethane	ND		2.0	ug/L			07/23/15 10:50	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 10:50	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 10:50	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 10:50	1
Carbon tetrachloride	ND		1.0	ug/L			07/23/15 10:50	1
Chlorobenzene	ND		1.0	ug/L			07/23/15 10:50	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/23/15 10:50	1
Chloroethane	ND		1.0	ug/L			07/23/15 10:50	1
Chloroform	ND		1.0	ug/L			07/23/15 10:50	1
Chloromethane	ND		1.0	ug/L			07/23/15 10:50	1
2-Chlorotoluene	ND		2.0	ug/L			07/23/15 10:50	1
4-Chlorotoluene	ND		2.0	ug/L			07/23/15 10:50	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 10:50	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 10:50	1
Dibromochloromethane	ND		1.0	ug/L			07/23/15 10:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/23/15 10:50	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/23/15 10:50	1
Dibromomethane	ND		1.0	ug/L			07/23/15 10:50	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: PW-7G-GW-17072015

Lab Sample ID: 440-115677-3
Date Collected: 07/17/15 08:50
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0		ug/L			07/23/15 10:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/23/15 10:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/23/15 10:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/23/15 10:50	1
1,1-Dichloroethane	ND		1.0		ug/L			07/23/15 10:50	1
1,2-Dichloroethane	ND		0.50		ug/L			07/23/15 10:50	1
1,1-Dichloroethene	ND		1.0		ug/L			07/23/15 10:50	1
1,2-Dichloropropane	ND		1.0		ug/L			07/23/15 10:50	1
1,3-Dichloropropane	ND		1.0		ug/L			07/23/15 10:50	1
2,2-Dichloropropane	ND		1.0		ug/L			07/23/15 10:50	1
1,1-Dichloropropene	ND		1.0		ug/L			07/23/15 10:50	1
Ethylbenzene	ND		1.0		ug/L			07/23/15 10:50	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/23/15 10:50	1
Hexachlorobutadiene	ND		2.0		ug/L			07/23/15 10:50	1
2-Hexanone	ND		10		ug/L			07/23/15 10:50	1
Isopropylbenzene	ND		1.0		ug/L			07/23/15 10:50	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/23/15 10:50	1
Methylene Chloride	ND		5.0		ug/L			07/23/15 10:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/23/15 10:50	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/23/15 10:50	1
m,p-Xylene	ND		1.0		ug/L			07/23/15 10:50	1
Naphthalene	ND		5.0		ug/L			07/23/15 10:50	1
n-Butylbenzene	ND		2.0		ug/L			07/23/15 10:50	1
N-Propylbenzene	ND		2.0		ug/L			07/23/15 10:50	1
o-Xylene	ND		1.0		ug/L			07/23/15 10:50	1
p-Isopropyltoluene	ND		2.0		ug/L			07/23/15 10:50	1
sec-Butylbenzene	ND		2.0		ug/L			07/23/15 10:50	1
Styrene	ND		1.0		ug/L			07/23/15 10:50	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/23/15 10:50	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/23/15 10:50	1
tert-Butylbenzene	ND		2.0		ug/L			07/23/15 10:50	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/23/15 10:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/23/15 10:50	1
Tetrachloroethene	ND		1.0		ug/L			07/23/15 10:50	1
Toluene	ND		1.0		ug/L			07/23/15 10:50	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/23/15 10:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 10:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 10:50	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/23/15 10:50	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/23/15 10:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/23/15 10:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/23/15 10:50	1
Trichloroethene	ND		1.0		ug/L			07/23/15 10:50	1
Trichlorofluoromethane	ND		1.0		ug/L			07/23/15 10:50	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/23/15 10:50	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/23/15 10:50	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/23/15 10:50	1
Vinyl chloride	ND		0.50		ug/L			07/23/15 10:50	1
Xylenes, Total	ND		2.0		ug/L			07/23/15 10:50	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: PW-7G-GW-17072015

Lab Sample ID: 440-115677-3
Date Collected: 07/17/15 08:50
Matrix: Water
Date Received: 07/20/15 17:15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/23/15 10:50*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*07/23/15 10:50*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/23/15 10:50*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**5.1**		3.0	ug/L			07/24/15 11:08	1

Client Sample ID: PW-7F-GW-17072015

Lab Sample ID: 440-115677-4
Date Collected: 07/17/15 09:25
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 14:58	1
Benzene	ND		0.50	ug/L			07/23/15 14:58	1
Bromobenzene	ND		1.0	ug/L			07/23/15 14:58	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 14:58	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 14:58	1
Bromoform	ND		1.0	ug/L			07/23/15 14:58	1
Bromomethane	ND		2.0	ug/L			07/23/15 14:58	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 14:58	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 14:58	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 14:58	1
Carbon tetrachloride	ND		1.0	ug/L			07/23/15 14:58	1
Chlorobenzene	ND		1.0	ug/L			07/23/15 14:58	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/23/15 14:58	1
Chloroethane	ND		1.0	ug/L			07/23/15 14:58	1
Chloroform	ND		1.0	ug/L			07/23/15 14:58	1
Chloromethane	ND		1.0	ug/L			07/23/15 14:58	1
2-Chlorotoluene	ND		2.0	ug/L			07/23/15 14:58	1
4-Chlorotoluene	ND		2.0	ug/L			07/23/15 14:58	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 14:58	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 14:58	1
Dibromochloromethane	ND		1.0	ug/L			07/23/15 14:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/23/15 14:58	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/23/15 14:58	1
Dibromomethane	ND		1.0	ug/L			07/23/15 14:58	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/23/15 14:58	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/23/15 14:58	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/23/15 14:58	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/23/15 14:58	1
1,1-Dichloroethane	ND		1.0	ug/L			07/23/15 14:58	1
1,2-Dichloroethane	ND		0.50	ug/L			07/23/15 14:58	1
1,1-Dichloroethene	ND		1.0	ug/L			07/23/15 14:58	1
1,2-Dichloropropane	ND		1.0	ug/L			07/23/15 14:58	1
1,3-Dichloropropane	ND		1.0	ug/L			07/23/15 14:58	1
2,2-Dichloropropane	ND		1.0	ug/L			07/23/15 14:58	1
1,1-Dichloropropene	ND		1.0	ug/L			07/23/15 14:58	1
Ethylbenzene	ND		1.0	ug/L			07/23/15 14:58	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: PW-7F-GW-17072015

Lab Sample ID: 440-115677-4
Date Collected: 07/17/15 09:25
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/23/15 14:58	1
Hexachlorobutadiene	ND		2.0	ug/L			07/23/15 14:58	1
2-Hexanone	ND		10	ug/L			07/23/15 14:58	1
Isopropylbenzene	ND		1.0	ug/L			07/23/15 14:58	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/23/15 14:58	1
Methylene Chloride	ND		5.0	ug/L			07/23/15 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/23/15 14:58	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/23/15 14:58	1
m,p-Xylene	ND		1.0	ug/L			07/23/15 14:58	1
Naphthalene	ND		5.0	ug/L			07/23/15 14:58	1
n-Butylbenzene	ND		2.0	ug/L			07/23/15 14:58	1
N-Propylbenzene	ND		2.0	ug/L			07/23/15 14:58	1
o-Xylene	ND		1.0	ug/L			07/23/15 14:58	1
p-Isopropyltoluene	ND		2.0	ug/L			07/23/15 14:58	1
sec-Butylbenzene	ND		2.0	ug/L			07/23/15 14:58	1
Styrene	ND		1.0	ug/L			07/23/15 14:58	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 14:58	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 14:58	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 14:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 14:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 14:58	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 14:58	1
Toluene	ND		1.0	ug/L			07/23/15 14:58	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 14:58	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 14:58	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 14:58	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 14:58	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 14:58	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 14:58	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 14:58	1
Trichloroethene	**1.8**		1.0	ug/L			07/23/15 14:58	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 14:58	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 14:58	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 14:58	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 14:58	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 14:58	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/23/15 14:58*	*1*
Dibromofluoromethane (Surr)	*120*		*76 - 132*		*07/23/15 14:58*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/23/15 14:58*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**40**	**F1**	3.0	ug/L			07/24/15 10:00	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: PW-7E-GW-17072015

Lab Sample ID: 440-115677-5
Date Collected: 07/17/15 09:55
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 15:25	1
Benzene	ND		0.50	ug/L			07/23/15 15:25	1
Bromobenzene	ND		1.0	ug/L			07/23/15 15:25	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 15:25	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 15:25	1
Bromoform	ND		1.0	ug/L			07/23/15 15:25	1
Bromomethane	ND		2.0	ug/L			07/23/15 15:25	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 15:25	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 15:25	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 15:25	1
Carbon tetrachloride	ND		1.0	ug/L			07/23/15 15:25	1
Chlorobenzene	ND		1.0	ug/L			07/23/15 15:25	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/23/15 15:25	1
Chloroethane	ND		1.0	ug/L			07/23/15 15:25	1
Chloroform	ND		1.0	ug/L			07/23/15 15:25	1
Chloromethane	ND		1.0	ug/L			07/23/15 15:25	1
2-Chlorotoluene	ND		2.0	ug/L			07/23/15 15:25	1
4-Chlorotoluene	ND		2.0	ug/L			07/23/15 15:25	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 15:25	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 15:25	1
Dibromochloromethane	ND		1.0	ug/L			07/23/15 15:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/23/15 15:25	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/23/15 15:25	1
Dibromomethane	ND		1.0	ug/L			07/23/15 15:25	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/23/15 15:25	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/23/15 15:25	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/23/15 15:25	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/23/15 15:25	1
1,1-Dichloroethane	ND		1.0	ug/L			07/23/15 15:25	1
1,2-Dichloroethane	ND		0.50	ug/L			07/23/15 15:25	1
1,1-Dichloroethene	ND		1.0	ug/L			07/23/15 15:25	1
1,2-Dichloropropane	ND		1.0	ug/L			07/23/15 15:25	1
1,3-Dichloropropane	ND		1.0	ug/L			07/23/15 15:25	1
2,2-Dichloropropane	ND		1.0	ug/L			07/23/15 15:25	1
1,1-Dichloropropene	ND		1.0	ug/L			07/23/15 15:25	1
Ethylbenzene	ND		1.0	ug/L			07/23/15 15:25	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/23/15 15:25	1
Hexachlorobutadiene	ND		2.0	ug/L			07/23/15 15:25	1
2-Hexanone	ND		10	ug/L			07/23/15 15:25	1
Isopropylbenzene	ND		1.0	ug/L			07/23/15 15:25	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/23/15 15:25	1
Methylene Chloride	ND		5.0	ug/L			07/23/15 15:25	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/23/15 15:25	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/23/15 15:25	1
m,p-Xylene	ND		1.0	ug/L			07/23/15 15:25	1
Naphthalene	ND		5.0	ug/L			07/23/15 15:25	1
n-Butylbenzene	ND		2.0	ug/L			07/23/15 15:25	1
N-Propylbenzene	ND		2.0	ug/L			07/23/15 15:25	1
o-Xylene	ND		1.0	ug/L			07/23/15 15:25	1

Client Sample ID: PW-7E-GW-17072015

Lab Sample ID: 440-115677-5
Date Collected: 07/17/15 09:55
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/23/15 15:25	1
sec-Butylbenzene	ND		2.0	ug/L			07/23/15 15:25	1
Styrene	ND		1.0	ug/L			07/23/15 15:25	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 15:25	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 15:25	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 15:25	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 15:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 15:25	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 15:25	1
Toluene	ND		1.0	ug/L			07/23/15 15:25	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 15:25	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 15:25	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 15:25	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 15:25	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 15:25	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 15:25	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 15:25	1
Trichloroethene	**2.9**		1.0	ug/L			07/23/15 15:25	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 15:25	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 15:25	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 15:25	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 15:25	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 15:25	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/23/15 15:25*	*1*
Dibromofluoromethane (Surr)	*120*		*76 - 132*		*07/23/15 15:25*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/23/15 15:25*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**21**		3.0	ug/L			07/24/15 11:24	1

Client Sample ID: PW-7D-GW-17072015

Lab Sample ID: 440-115677-6
Date Collected: 07/17/15 10:25
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 15:53	1
Benzene	ND		0.50	ug/L			07/23/15 15:53	1
Bromobenzene	ND		1.0	ug/L			07/23/15 15:53	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 15:53	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 15:53	1
Bromoform	ND		1.0	ug/L			07/23/15 15:53	1
Bromomethane	ND		2.0	ug/L			07/23/15 15:53	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 15:53	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 15:53	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 15:53	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: PW-7D-GW-17072015

Lab Sample ID: 440-115677-6
Date Collected: 07/17/15 10:25
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	ug/L			07/23/15 15:53	1
Chlorobenzene	ND		1.0	ug/L			07/23/15 15:53	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/23/15 15:53	1
Chloroethane	ND		1.0	ug/L			07/23/15 15:53	1
Chloroform	ND		1.0	ug/L			07/23/15 15:53	1
Chloromethane	ND		1.0	ug/L			07/23/15 15:53	1
2-Chlorotoluene	ND		2.0	ug/L			07/23/15 15:53	1
4-Chlorotoluene	ND		2.0	ug/L			07/23/15 15:53	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 15:53	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 15:53	1
Dibromochloromethane	ND		1.0	ug/L			07/23/15 15:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/23/15 15:53	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/23/15 15:53	1
Dibromomethane	ND		1.0	ug/L			07/23/15 15:53	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/23/15 15:53	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/23/15 15:53	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/23/15 15:53	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/23/15 15:53	1
1,1-Dichloroethane	ND		1.0	ug/L			07/23/15 15:53	1
1,2-Dichloroethane	ND		0.50	ug/L			07/23/15 15:53	1
1,1-Dichloroethene	ND		1.0	ug/L			07/23/15 15:53	1
1,2-Dichloropropane	ND		1.0	ug/L			07/23/15 15:53	1
1,3-Dichloropropane	ND		1.0	ug/L			07/23/15 15:53	1
2,2-Dichloropropane	ND		1.0	ug/L			07/23/15 15:53	1
1,1-Dichloropropene	ND		1.0	ug/L			07/23/15 15:53	1
Ethylbenzene	ND		1.0	ug/L			07/23/15 15:53	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/23/15 15:53	1
Hexachlorobutadiene	ND		2.0	ug/L			07/23/15 15:53	1
2-Hexanone	ND		10	ug/L			07/23/15 15:53	1
Isopropylbenzene	ND		1.0	ug/L			07/23/15 15:53	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/23/15 15:53	1
Methylene Chloride	ND		5.0	ug/L			07/23/15 15:53	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/23/15 15:53	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/23/15 15:53	1
m,p-Xylene	ND		1.0	ug/L			07/23/15 15:53	1
Naphthalene	ND		5.0	ug/L			07/23/15 15:53	1
n-Butylbenzene	ND		2.0	ug/L			07/23/15 15:53	1
N-Propylbenzene	ND		2.0	ug/L			07/23/15 15:53	1
o-Xylene	ND		1.0	ug/L			07/23/15 15:53	1
p-Isopropyltoluene	ND		2.0	ug/L			07/23/15 15:53	1
sec-Butylbenzene	ND		2.0	ug/L			07/23/15 15:53	1
Styrene	ND		1.0	ug/L			07/23/15 15:53	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 15:53	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 15:53	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 15:53	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 15:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 15:53	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 15:53	1
Toluene	ND		1.0	ug/L			07/23/15 15:53	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: PW-7D-GW-17072015

Lab Sample ID: 440-115677-6
Date Collected: 07/17/15 10:25
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 15:53	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 15:53	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 15:53	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 15:53	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 15:53	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 15:53	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 15:53	1
Trichloroethene	ND		1.0	ug/L			07/23/15 15:53	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 15:53	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 15:53	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 15:53	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 15:53	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 15:53	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/23/15 15:53*	*1*
Dibromofluoromethane (Surr)	*121*		*76 - 132*		*07/23/15 15:53*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*07/23/15 15:53*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/24/15 16:14	1

Client Sample ID: PW-7C-GW-17072015

Lab Sample ID: 440-115677-7
Date Collected: 07/17/15 11:00
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 16:21	1
Benzene	ND		0.50	ug/L			07/23/15 16:21	1
Bromobenzene	ND		1.0	ug/L			07/23/15 16:21	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 16:21	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 16:21	1
Bromoform	ND		1.0	ug/L			07/23/15 16:21	1
Bromomethane	ND		2.0	ug/L			07/23/15 16:21	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 16:21	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 16:21	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 16:21	1
Carbon tetrachloride	ND		1.0	ug/L			07/23/15 16:21	1
Chlorobenzene	ND		1.0	ug/L			07/23/15 16:21	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/23/15 16:21	1
Chloroethane	ND		1.0	ug/L			07/23/15 16:21	1
Chloroform	ND		1.0	ug/L			07/23/15 16:21	1
Chloromethane	ND		1.0	ug/L			07/23/15 16:21	1
2-Chlorotoluene	ND		2.0	ug/L			07/23/15 16:21	1
4-Chlorotoluene	ND		2.0	ug/L			07/23/15 16:21	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 16:21	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 16:21	1

Client Sample ID: PW-7C-GW-17072015

Lab Sample ID: 440-115677-7

Date Collected: 07/17/15 11:00

Matrix: Water

Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	ug/L			07/23/15 16:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/23/15 16:21	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/23/15 16:21	1
Dibromomethane	ND		1.0	ug/L			07/23/15 16:21	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/23/15 16:21	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/23/15 16:21	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/23/15 16:21	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/23/15 16:21	1
1,1-Dichloroethane	ND		1.0	ug/L			07/23/15 16:21	1
1,2-Dichloroethane	ND		0.50	ug/L			07/23/15 16:21	1
1,1-Dichloroethene	ND		1.0	ug/L			07/23/15 16:21	1
1,2-Dichloropropane	ND		1.0	ug/L			07/23/15 16:21	1
1,3-Dichloropropane	ND		1.0	ug/L			07/23/15 16:21	1
2,2-Dichloropropane	ND		1.0	ug/L			07/23/15 16:21	1
1,1-Dichloropropene	ND		1.0	ug/L			07/23/15 16:21	1
Ethylbenzene	ND		1.0	ug/L			07/23/15 16:21	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/23/15 16:21	1
Hexachlorobutadiene	ND		2.0	ug/L			07/23/15 16:21	1
2-Hexanone	ND		10	ug/L			07/23/15 16:21	1
Isopropylbenzene	ND		1.0	ug/L			07/23/15 16:21	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/23/15 16:21	1
Methylene Chloride	ND		5.0	ug/L			07/23/15 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/23/15 16:21	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/23/15 16:21	1
m,p-Xylene	ND		1.0	ug/L			07/23/15 16:21	1
Naphthalene	ND		5.0	ug/L			07/23/15 16:21	1
n-Butylbenzene	ND		2.0	ug/L			07/23/15 16:21	1
N-Propylbenzene	ND		2.0	ug/L			07/23/15 16:21	1
o-Xylene	ND		1.0	ug/L			07/23/15 16:21	1
p-Isopropyltoluene	ND		2.0	ug/L			07/23/15 16:21	1
sec-Butylbenzene	ND		2.0	ug/L			07/23/15 16:21	1
Styrene	ND		1.0	ug/L			07/23/15 16:21	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 16:21	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 16:21	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 16:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 16:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 16:21	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 16:21	1
Toluene	ND		1.0	ug/L			07/23/15 16:21	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 16:21	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 16:21	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 16:21	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 16:21	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 16:21	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 16:21	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 16:21	1
Trichloroethene	ND		1.0	ug/L			07/23/15 16:21	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 16:21	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 16:21	1

Client Sample ID: PW-7C-GW-17072015

Lab Sample ID: 440-115677-7

Date Collected: 07/17/15 11:00
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 16:21	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 16:21	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 16:21	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/23/15 16:21*	*1*
Dibromofluoromethane (Surr)	*117*		*76 - 132*		*07/23/15 16:21*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/23/15 16:21*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**4.3**		3.0	ug/L			07/24/15 11:41	1

Client Sample ID: PW-7B-GW-17072015

Lab Sample ID: 440-115677-8

Date Collected: 07/17/15 11:25
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 16:48	1
Benzene	ND		0.50	ug/L			07/23/15 16:48	1
Bromobenzene	ND		1.0	ug/L			07/23/15 16:48	1
Bromochloromethane	ND		1.0	ug/L			07/23/15 16:48	1
Bromodichloromethane	ND		1.0	ug/L			07/23/15 16:48	1
Bromoform	ND		1.0	ug/L			07/23/15 16:48	1
Bromomethane	ND		2.0	ug/L			07/23/15 16:48	1
1,3-Butadiene	ND		1.0	ug/L			07/23/15 16:48	1
2-Butanone (MEK)	ND		10	ug/L			07/23/15 16:48	1
Carbon disulfide	ND		2.0	ug/L			07/23/15 16:48	1
Carbon tetrachloride	ND		1.0	ug/L			07/23/15 16:48	1
Chlorobenzene	ND		1.0	ug/L			07/23/15 16:48	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/23/15 16:48	1
Chloroethane	ND		1.0	ug/L			07/23/15 16:48	1
Chloroform	ND		1.0	ug/L			07/23/15 16:48	1
Chloromethane	ND		1.0	ug/L			07/23/15 16:48	1
2-Chlorotoluene	ND		2.0	ug/L			07/23/15 16:48	1
4-Chlorotoluene	ND		2.0	ug/L			07/23/15 16:48	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 16:48	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 16:48	1
Dibromochloromethane	ND		1.0	ug/L			07/23/15 16:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/23/15 16:48	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/23/15 16:48	1
Dibromomethane	ND		1.0	ug/L			07/23/15 16:48	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/23/15 16:48	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/23/15 16:48	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/23/15 16:48	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/23/15 16:48	1
1,1-Dichloroethane	ND		1.0	ug/L			07/23/15 16:48	1
1,2-Dichloroethane	ND		0.50	ug/L			07/23/15 16:48	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: PW-7B-GW-17072015

Lab Sample ID: 440-115677-8

Date Collected: 07/17/15 11:25
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	ug/L			07/23/15 16:48	1
1,2-Dichloropropane	ND		1.0	ug/L			07/23/15 16:48	1
1,3-Dichloropropane	ND		1.0	ug/L			07/23/15 16:48	1
2,2-Dichloropropane	ND		1.0	ug/L			07/23/15 16:48	1
1,1-Dichloropropene	ND		1.0	ug/L			07/23/15 16:48	1
Ethylbenzene	ND		1.0	ug/L			07/23/15 16:48	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/23/15 16:48	1
Hexachlorobutadiene	ND		2.0	ug/L			07/23/15 16:48	1
2-Hexanone	ND		10	ug/L			07/23/15 16:48	1
Isopropylbenzene	ND		1.0	ug/L			07/23/15 16:48	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/23/15 16:48	1
Methylene Chloride	ND		5.0	ug/L			07/23/15 16:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/23/15 16:48	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/23/15 16:48	1
m,p-Xylene	ND		1.0	ug/L			07/23/15 16:48	1
Naphthalene	ND		5.0	ug/L			07/23/15 16:48	1
n-Butylbenzene	ND		2.0	ug/L			07/23/15 16:48	1
N-Propylbenzene	ND		2.0	ug/L			07/23/15 16:48	1
o-Xylene	ND		1.0	ug/L			07/23/15 16:48	1
p-Isopropyltoluene	ND		2.0	ug/L			07/23/15 16:48	1
sec-Butylbenzene	ND		2.0	ug/L			07/23/15 16:48	1
Styrene	ND		1.0	ug/L			07/23/15 16:48	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 16:48	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 16:48	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 16:48	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 16:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 16:48	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 16:48	1
Toluene	ND		1.0	ug/L			07/23/15 16:48	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 16:48	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 16:48	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 16:48	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 16:48	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 16:48	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 16:48	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 16:48	1
Trichloroethene	ND		1.0	ug/L			07/23/15 16:48	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 16:48	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 16:48	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 16:48	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 16:48	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 16:48	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/23/15 16:48*	*1*
Dibromofluoromethane (Surr)	*120*		*76 - 132*		*07/23/15 16:48*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/23/15 16:48*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: PW-7B-GW-17072015

Lab Sample ID: 440-115677-8
Date Collected: 07/17/15 11:25
Matrix: Water
Date Received: 07/20/15 17:15

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/24/15 11:58	1

Client Sample ID: PW-8E-GW-17072015

Lab Sample ID: 440-115677-9
Date Collected: 07/17/15 15:00
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/23/15 17:15	1
Benzene	ND		0.50		ug/L			07/23/15 17:15	1
Bromobenzene	ND		1.0		ug/L			07/23/15 17:15	1
Bromochloromethane	ND		1.0		ug/L			07/23/15 17:15	1
Bromodichloromethane	ND		1.0		ug/L			07/23/15 17:15	1
Bromoform	ND		1.0		ug/L			07/23/15 17:15	1
Bromomethane	ND		2.0		ug/L			07/23/15 17:15	1
1,3-Butadiene	ND		1.0		ug/L			07/23/15 17:15	1
2-Butanone (MEK)	ND		10		ug/L			07/23/15 17:15	1
Carbon disulfide	ND		2.0		ug/L			07/23/15 17:15	1
Carbon tetrachloride	ND		1.0		ug/L			07/23/15 17:15	1
Chlorobenzene	ND		1.0		ug/L			07/23/15 17:15	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/23/15 17:15	1
Chloroethane	ND		1.0		ug/L			07/23/15 17:15	1
Chloroform	ND		1.0		ug/L			07/23/15 17:15	1
Chloromethane	ND		1.0		ug/L			07/23/15 17:15	1
2-Chlorotoluene	ND		2.0		ug/L			07/23/15 17:15	1
4-Chlorotoluene	ND		2.0		ug/L			07/23/15 17:15	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 17:15	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 17:15	1
Dibromochloromethane	ND		1.0		ug/L			07/23/15 17:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 17:15	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/23/15 17:15	1
Dibromomethane	ND		1.0		ug/L			07/23/15 17:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/23/15 17:15	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/23/15 17:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/23/15 17:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/23/15 17:15	1
1,1-Dichloroethane	ND		1.0		ug/L			07/23/15 17:15	1
1,2-Dichloroethane	ND		0.50		ug/L			07/23/15 17:15	1
1,1-Dichloroethene	ND		1.0		ug/L			07/23/15 17:15	1
1,2-Dichloropropane	ND		1.0		ug/L			07/23/15 17:15	1
1,3-Dichloropropane	ND		1.0		ug/L			07/23/15 17:15	1
2,2-Dichloropropane	ND		1.0		ug/L			07/23/15 17:15	1
1,1-Dichloropropene	ND		1.0		ug/L			07/23/15 17:15	1
Ethylbenzene	ND		1.0		ug/L			07/23/15 17:15	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/23/15 17:15	1
Hexachlorobutadiene	ND		2.0		ug/L			07/23/15 17:15	1
2-Hexanone	ND		10		ug/L			07/23/15 17:15	1
Isopropylbenzene	ND		1.0		ug/L			07/23/15 17:15	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/23/15 17:15	1
Methylene Chloride	ND		5.0		ug/L			07/23/15 17:15	1

Client Sample ID: PW-8E-GW-17072015

Lab Sample ID: 440-115677-9

Date Collected: 07/17/15 15:00
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/23/15 17:15	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/23/15 17:15	1
m,p-Xylene	ND		1.0	ug/L			07/23/15 17:15	1
Naphthalene	ND		5.0	ug/L			07/23/15 17:15	1
n-Butylbenzene	ND		2.0	ug/L			07/23/15 17:15	1
N-Propylbenzene	ND		2.0	ug/L			07/23/15 17:15	1
o-Xylene	ND		1.0	ug/L			07/23/15 17:15	1
p-Isopropyltoluene	ND		2.0	ug/L			07/23/15 17:15	1
sec-Butylbenzene	ND		2.0	ug/L			07/23/15 17:15	1
Styrene	ND		1.0	ug/L			07/23/15 17:15	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 17:15	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 17:15	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 17:15	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 17:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 17:15	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 17:15	1
Toluene	ND		1.0	ug/L			07/23/15 17:15	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 17:15	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 17:15	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 17:15	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 17:15	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 17:15	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 17:15	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 17:15	1
Trichloroethene	ND		1.0	ug/L			07/23/15 17:15	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 17:15	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 17:15	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 17:15	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 17:15	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 17:15	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/23/15 17:15*	*1*
Dibromofluoromethane (Surr)	*119*		*76 - 132*		*07/23/15 17:15*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/23/15 17:15*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/24/15 12:15	1

Client Sample ID: 17072015D-1

Lab Sample ID: 440-115677-10

Date Collected: 07/17/15 00:01
Matrix: Water
Date Received: 07/20/15 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/23/15 17:43	1
Benzene	ND		0.50	ug/L			07/23/15 17:43	1
Bromobenzene	ND		1.0	ug/L			07/23/15 17:43	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: 17072015D-1

Date Collected: 07/17/15 00:01
Date Received: 07/20/15 17:15

Lab Sample ID: 440-115677-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		1.0		ug/L			07/23/15 17:43	1
Bromodichloromethane	ND		1.0		ug/L			07/23/15 17:43	1
Bromoform	ND		1.0		ug/L			07/23/15 17:43	1
Bromomethane	ND		2.0		ug/L			07/23/15 17:43	1
1,3-Butadiene	ND		1.0		ug/L			07/23/15 17:43	1
2-Butanone (MEK)	ND		10		ug/L			07/23/15 17:43	1
Carbon disulfide	ND		2.0		ug/L			07/23/15 17:43	1
Carbon tetrachloride	ND		1.0		ug/L			07/23/15 17:43	1
Chlorobenzene	ND		1.0		ug/L			07/23/15 17:43	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/23/15 17:43	1
Chloroethane	ND		1.0		ug/L			07/23/15 17:43	1
Chloroform	ND		1.0		ug/L			07/23/15 17:43	1
Chloromethane	ND		1.0		ug/L			07/23/15 17:43	1
2-Chlorotoluene	ND		2.0		ug/L			07/23/15 17:43	1
4-Chlorotoluene	ND		2.0		ug/L			07/23/15 17:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 17:43	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 17:43	1
Dibromochloromethane	ND		1.0		ug/L			07/23/15 17:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 17:43	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/23/15 17:43	1
Dibromomethane	ND		1.0		ug/L			07/23/15 17:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/23/15 17:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/23/15 17:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/23/15 17:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/23/15 17:43	1
1,1-Dichloroethane	ND		1.0		ug/L			07/23/15 17:43	1
1,2-Dichloroethane	ND		0.50		ug/L			07/23/15 17:43	1
1,1-Dichloroethene	ND		1.0		ug/L			07/23/15 17:43	1
1,2-Dichloropropane	ND		1.0		ug/L			07/23/15 17:43	1
1,3-Dichloropropane	ND		1.0		ug/L			07/23/15 17:43	1
2,2-Dichloropropane	ND		1.0		ug/L			07/23/15 17:43	1
1,1-Dichloropropene	ND		1.0		ug/L			07/23/15 17:43	1
Ethylbenzene	ND		1.0		ug/L			07/23/15 17:43	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/23/15 17:43	1
Hexachlorobutadiene	ND		2.0		ug/L			07/23/15 17:43	1
2-Hexanone	ND		10		ug/L			07/23/15 17:43	1
Isopropylbenzene	ND		1.0		ug/L			07/23/15 17:43	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/23/15 17:43	1
Methylene Chloride	ND		5.0		ug/L			07/23/15 17:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/23/15 17:43	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/23/15 17:43	1
m,p-Xylene	ND		1.0		ug/L			07/23/15 17:43	1
Naphthalene	ND		5.0		ug/L			07/23/15 17:43	1
n-Butylbenzene	ND		2.0		ug/L			07/23/15 17:43	1
N-Propylbenzene	ND		2.0		ug/L			07/23/15 17:43	1
o-Xylene	ND		1.0		ug/L			07/23/15 17:43	1
p-Isopropyltoluene	ND		2.0		ug/L			07/23/15 17:43	1
sec-Butylbenzene	ND		2.0		ug/L			07/23/15 17:43	1
Styrene	ND		1.0		ug/L			07/23/15 17:43	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: 17072015D-1

Date Collected: 07/17/15 00:01
Date Received: 07/20/15 17:15

Lab Sample ID: 440-115677-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/23/15 17:43	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/23/15 17:43	1
tert-Butylbenzene	ND		2.0	ug/L			07/23/15 17:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 17:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/23/15 17:43	1
Tetrachloroethene	ND		1.0	ug/L			07/23/15 17:43	1
Toluene	ND		1.0	ug/L			07/23/15 17:43	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/23/15 17:43	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/23/15 17:43	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/23/15 17:43	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/23/15 17:43	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/23/15 17:43	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/23/15 17:43	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/23/15 17:43	1
Trichloroethene	ND		1.0	ug/L			07/23/15 17:43	1
Trichlorofluoromethane	ND		1.0	ug/L			07/23/15 17:43	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/23/15 17:43	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/23/15 17:43	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/23/15 17:43	1
Vinyl chloride	ND		0.50	ug/L			07/23/15 17:43	1
Xylenes, Total	ND		2.0	ug/L			07/23/15 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/23/15 17:43*	*1*
Dibromofluoromethane (Surr)	*119*		*76 - 132*		*07/23/15 17:43*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*07/23/15 17:43*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**4.0**		3.0	ug/L			07/24/15 13:38	1

Method Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
314.0 LL	Perchlorate (IC)	EPA	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: 17072015TB-1 — Lab Sample ID: 440-115677-1

Date Collected: 07/17/15 07:30 — **Matrix: Water**
Date Received: 07/20/15 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 14:02	LB	TAL IRV

Client Sample ID: 17072015EB-1 — Lab Sample ID: 440-115677-2

Date Collected: 07/17/15 10:05 — **Matrix: Water**
Date Received: 07/20/15 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 14:30	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 10:51	CH	TAL IRV

Client Sample ID: PW-7G-GW-17072015 — Lab Sample ID: 440-115677-3

Date Collected: 07/17/15 08:50 — **Matrix: Water**
Date Received: 07/20/15 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 10:50	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 11:08	CH	TAL IRV

Client Sample ID: PW-7F-GW-17072015 — Lab Sample ID: 440-115677-4

Date Collected: 07/17/15 09:25 — **Matrix: Water**
Date Received: 07/20/15 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 14:58	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 10:00	CH	TAL IRV

Client Sample ID: PW-7E-GW-17072015 — Lab Sample ID: 440-115677-5

Date Collected: 07/17/15 09:55 — **Matrix: Water**
Date Received: 07/20/15 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 15:25	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 11:24	CH	TAL IRV

Client Sample ID: PW-7D-GW-17072015 — Lab Sample ID: 440-115677-6

Date Collected: 07/17/15 10:25 — **Matrix: Water**
Date Received: 07/20/15 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 15:53	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268979	07/24/15 16:14	CH	TAL IRV

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Client Sample ID: PW-7C-GW-17072015 — Lab Sample ID: 440-115677-7

Date Collected: 07/17/15 11:00
Date Received: 07/20/15 17:15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 16:21	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 11:41	CH	TAL IRV

Client Sample ID: PW-7B-GW-17072015 — Lab Sample ID: 440-115677-8

Date Collected: 07/17/15 11:25
Date Received: 07/20/15 17:15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 16:48	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 11:58	CH	TAL IRV

Client Sample ID: PW-8E-GW-17072015 — Lab Sample ID: 440-115677-9

Date Collected: 07/17/15 15:00
Date Received: 07/20/15 17:15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 17:15	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 12:15	CH	TAL IRV

Client Sample ID: 17072015D-1 — Lab Sample ID: 440-115677-10

Date Collected: 07/17/15 00:01
Date Received: 07/20/15 17:15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268708	07/23/15 17:43	LB	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 13:38	CH	TAL IRV

Laboratory References:
TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-268708/4
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/23/15 09:56	1
Benzene	ND		0.50		ug/L			07/23/15 09:56	1
Bromobenzene	ND		1.0		ug/L			07/23/15 09:56	1
Bromochloromethane	ND		1.0		ug/L			07/23/15 09:56	1
Bromodichloromethane	ND		1.0		ug/L			07/23/15 09:56	1
Bromoform	ND		1.0		ug/L			07/23/15 09:56	1
Bromomethane	ND		2.0		ug/L			07/23/15 09:56	1
1,3-Butadiene	ND		1.0		ug/L			07/23/15 09:56	1
2-Butanone (MEK)	ND		10		ug/L			07/23/15 09:56	1
Carbon disulfide	ND		2.0		ug/L			07/23/15 09:56	1
Carbon tetrachloride	ND		1.0		ug/L			07/23/15 09:56	1
Chlorobenzene	ND		1.0		ug/L			07/23/15 09:56	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/23/15 09:56	1
Chloroethane	ND		1.0		ug/L			07/23/15 09:56	1
Chloroform	ND		1.0		ug/L			07/23/15 09:56	1
Chloromethane	ND		1.0		ug/L			07/23/15 09:56	1
2-Chlorotoluene	ND		2.0		ug/L			07/23/15 09:56	1
4-Chlorotoluene	ND		2.0		ug/L			07/23/15 09:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 09:56	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 09:56	1
Dibromochloromethane	ND		1.0		ug/L			07/23/15 09:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 09:56	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/23/15 09:56	1
Dibromomethane	ND		1.0		ug/L			07/23/15 09:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/23/15 09:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/23/15 09:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/23/15 09:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/23/15 09:56	1
1,1-Dichloroethane	ND		1.0		ug/L			07/23/15 09:56	1
1,2-Dichloroethane	ND		0.50		ug/L			07/23/15 09:56	1
1,1-Dichloroethene	ND		1.0		ug/L			07/23/15 09:56	1
1,2-Dichloropropane	ND		1.0		ug/L			07/23/15 09:56	1
1,3-Dichloropropane	ND		1.0		ug/L			07/23/15 09:56	1
2,2-Dichloropropane	ND		1.0		ug/L			07/23/15 09:56	1
1,1-Dichloropropene	ND		1.0		ug/L			07/23/15 09:56	1
Ethylbenzene	ND		1.0		ug/L			07/23/15 09:56	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/23/15 09:56	1
Hexachlorobutadiene	ND		2.0		ug/L			07/23/15 09:56	1
2-Hexanone	ND		10		ug/L			07/23/15 09:56	1
Isopropylbenzene	ND		1.0		ug/L			07/23/15 09:56	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/23/15 09:56	1
Methylene Chloride	ND		5.0		ug/L			07/23/15 09:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/23/15 09:56	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/23/15 09:56	1
m,p-Xylene	ND		1.0		ug/L			07/23/15 09:56	1
Naphthalene	ND		5.0		ug/L			07/23/15 09:56	1
n-Butylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
N-Propylbenzene	ND		2.0		ug/L			07/23/15 09:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-268708/4
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			07/23/15 09:56	1
p-Isopropyltoluene	ND		2.0		ug/L			07/23/15 09:56	1
sec-Butylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
Styrene	ND		1.0		ug/L			07/23/15 09:56	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/23/15 09:56	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/23/15 09:56	1
tert-Butylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/23/15 09:56	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/23/15 09:56	1
Tetrachloroethene	ND		1.0		ug/L			07/23/15 09:56	1
Toluene	ND		1.0		ug/L			07/23/15 09:56	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/23/15 09:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/23/15 09:56	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/23/15 09:56	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/23/15 09:56	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/23/15 09:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/23/15 09:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/23/15 09:56	1
Trichloroethene	ND		1.0		ug/L			07/23/15 09:56	1
Trichlorofluoromethane	ND		1.0		ug/L			07/23/15 09:56	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/23/15 09:56	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/23/15 09:56	1
Vinyl chloride	ND		0.50		ug/L			07/23/15 09:56	1
Xylenes, Total	ND		2.0		ug/L			07/23/15 09:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/23/15 09:56*	*1*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*07/23/15 09:56*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*07/23/15 09:56*	*1*

Lab Sample ID: LCS 440-268708/5
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	23.7		ug/L		95	10 - 150
Benzene	25.0	26.4		ug/L		105	68 - 130
Bromobenzene	25.0	27.1		ug/L		108	70 - 130
Bromochloromethane	25.0	29.0		ug/L		116	70 - 130
Bromodichloromethane	25.0	28.3		ug/L		113	70 - 132
Bromoform	25.0	26.3		ug/L		105	60 - 148
Bromomethane	25.0	30.6		ug/L		122	64 - 139
2-Butanone (MEK)	25.0	25.1		ug/L		100	44 - 150
Carbon disulfide	25.0	26.7		ug/L		107	52 - 136
Carbon tetrachloride	25.0	31.2		ug/L		125	60 - 150
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130
Chloroethane	25.0	28.6		ug/L		114	64 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-268708/5
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	28.9		ug/L		116	70 - 130
Chloromethane	25.0	29.4		ug/L		118	47 - 140
2-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130
4-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130
cis-1,2-Dichloroethene	25.0	27.0		ug/L		108	70 - 133
cis-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 133
Dibromochloromethane	25.0	26.1		ug/L		104	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	26.8		ug/L		107	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.6		ug/L		111	70 - 130
Dibromomethane	25.0	27.7		ug/L		111	70 - 130
1,2-Dichlorobenzene	25.0	27.1		ug/L		109	70 - 130
1,3-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	31.5		ug/L		126	29 - 150
1,1-Dichloroethane	25.0	25.7		ug/L		103	64 - 130
1,2-Dichloroethane	25.0	29.3		ug/L		117	57 - 138
1,1-Dichloroethene	25.0	28.2		ug/L		113	70 - 130
1,2-Dichloropropane	25.0	24.8		ug/L		99	67 - 130
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130
2,2-Dichloropropane	25.0	29.2		ug/L		117	68 - 141
1,1-Dichloropropene	25.0	27.4		ug/L		110	70 - 130
Ethylbenzene	25.0	25.4		ug/L		102	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	28.9		ug/L		115	60 - 136
Hexachlorobutadiene	25.0	27.4		ug/L		110	10 - 150
2-Hexanone	25.0	24.1		ug/L		96	10 - 150
Isopropylbenzene	25.0	26.7		ug/L		107	70 - 136
Isopropyl Ether (DIPE)	25.0	27.5		ug/L		110	58 - 139
Methylene Chloride	25.0	25.9		ug/L		104	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	24.0		ug/L		96	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	27.6		ug/L		111	63 - 131
m,p-Xylene	25.0	26.3		ug/L		105	70 - 130
Naphthalene	25.0	26.6		ug/L		106	60 - 140
n-Butylbenzene	25.0	25.1		ug/L		100	65 - 150
N-Propylbenzene	25.0	25.6		ug/L		102	67 - 139
o-Xylene	25.0	24.5		ug/L		98	70 - 130
p-Isopropyltoluene	25.0	26.5		ug/L		106	70 - 132
sec-Butylbenzene	25.0	25.3		ug/L		101	70 - 138
Styrene	25.0	26.0		ug/L		104	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	28.3		ug/L		113	57 - 139
tert-Butyl alcohol (TBA)	250	260		ug/L		104	70 - 130
tert-Butylbenzene	25.0	26.6		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.7		ug/L		111	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	63 - 130
Tetrachloroethene	25.0	27.4		ug/L		110	70 - 130
Toluene	25.0	25.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	28.5		ug/L		114	70 - 130
trans-1,3-Dichloropropene	25.0	25.6		ug/L		103	70 - 132
1,2,3-Trichlorobenzene	25.0	27.1		ug/L		109	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-268708/5
Matrix: Water
Analysis Batch: 268708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	60 - 140
1,1,1-Trichloroethane	25.0	29.5		ug/L		118	70 - 130
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
Trichloroethene	25.0	28.6		ug/L		115	70 - 130
Trichlorofluoromethane	25.0	31.2		ug/L		125	60 - 150
1,2,3-Trichloropropane	25.0	23.0		ug/L		92	63 - 130
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		102	70 - 135
1,3,5-Trimethylbenzene	25.0	25.6		ug/L		102	70 - 136
Vinyl chloride	25.0	29.0		ug/L		116	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*76 - 132*
Toluene-d8 (Surr)	*103*		*80 - 128*

Lab Sample ID: 440-115677-3 MS
Matrix: Water
Analysis Batch: 268708

Client Sample ID: PW-7G-GW-17072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	22.6		ug/L		90	10 - 150
Benzene	ND		25.0	25.7		ug/L		103	66 - 130
Bromobenzene	ND		25.0	25.3		ug/L		101	70 - 130
Bromochloromethane	ND		25.0	30.2		ug/L		121	70 - 130
Bromodichloromethane	ND		25.0	28.0		ug/L		112	70 - 138
Bromoform	ND		25.0	25.0		ug/L		100	59 - 150
Bromomethane	ND		25.0	30.8		ug/L		123	62 - 131
2-Butanone (MEK)	ND		25.0	25.1		ug/L		100	48 - 140
Carbon disulfide	ND		25.0	26.3		ug/L		105	49 - 140
Carbon tetrachloride	ND		25.0	30.8		ug/L		123	60 - 150
Chlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
Chloroethane	ND		25.0	27.5		ug/L		110	68 - 130
Chloroform	ND		25.0	28.7		ug/L		115	70 - 130
Chloromethane	ND		25.0	29.7		ug/L		119	39 - 144
2-Chlorotoluene	ND		25.0	24.3		ug/L		97	70 - 130
4-Chlorotoluene	ND		25.0	25.0		ug/L		100	70 - 130
cis-1,2-Dichloroethene	ND		25.0	27.3		ug/L		109	70 - 130
cis-1,3-Dichloropropene	ND		25.0	25.9		ug/L		104	70 - 133
Dibromochloromethane	ND		25.0	26.1		ug/L		104	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	24.7		ug/L		99	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	27.5		ug/L		110	70 - 131
Dibromomethane	ND		25.0	27.9		ug/L		112	70 - 130
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130
Dichlorodifluoromethane	ND		25.0	30.7		ug/L		123	25 - 142
1,1-Dichloroethane	ND		25.0	25.8		ug/L		103	65 - 130
1,2-Dichloroethane	ND		25.0	29.0		ug/L		116	56 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115677-3 MS
Matrix: Water
Analysis Batch: 268708

Client Sample ID: PW-7G-GW-17072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		25.0	27.4		ug/L		110	70 - 130
1,2-Dichloropropane	ND		25.0	25.0		ug/L		100	69 - 130
1,3-Dichloropropane	ND		25.0	23.7		ug/L		95	70 - 130
2,2-Dichloropropane	ND		25.0	28.5		ug/L		114	69 - 138
1,1-Dichloropropene	ND		25.0	27.6		ug/L		111	64 - 130
Ethylbenzene	ND		25.0	25.3		ug/L		101	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	28.5		ug/L		114	70 - 130
Hexachlorobutadiene	ND		25.0	27.0		ug/L		108	10 - 150
2-Hexanone	ND		25.0	22.6		ug/L		90	10 - 150
Isopropylbenzene	ND		25.0	26.0		ug/L		104	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	26.6		ug/L		106	64 - 138
Methylene Chloride	ND		25.0	25.5		ug/L		102	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.6		ug/L		94	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.4		ug/L		110	70 - 130
m,p-Xylene	ND		25.0	25.5		ug/L		102	70 - 133
Naphthalene	ND		25.0	26.0		ug/L		104	60 - 140
n-Butylbenzene	ND		25.0	24.5		ug/L		98	61 - 149
N-Propylbenzene	ND		25.0	24.5		ug/L		98	66 - 135
o-Xylene	ND		25.0	24.7		ug/L		99	70 - 133
p-Isopropyltoluene	ND		25.0	25.3		ug/L		101	70 - 130
sec-Butylbenzene	ND		25.0	24.5		ug/L		98	67 - 134
Styrene	ND		25.0	26.4		ug/L		105	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	27.9		ug/L		112	68 - 133
tert-Butyl alcohol (TBA)	ND		250	260		ug/L		104	70 - 130
tert-Butylbenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	23.3		ug/L		93	63 - 130
Tetrachloroethene	ND		25.0	27.2		ug/L		109	70 - 137
Toluene	ND		25.0	24.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	ND		25.0	28.0		ug/L		112	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.9		ug/L		104	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	26.3		ug/L		105	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.7		ug/L		107	60 - 140
1,1,1-Trichloroethane	ND		25.0	29.3		ug/L		117	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.4		ug/L		102	70 - 130
Trichloroethene	ND		25.0	29.1		ug/L		117	70 - 130
Trichlorofluoromethane	ND		25.0	30.6		ug/L		122	60 - 150
1,2,3-Trichloropropane	ND		25.0	22.2		ug/L		89	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	24.5		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	24.6		ug/L		98	70 - 130
Vinyl chloride	ND		25.0	28.9		ug/L		115	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*116*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115677-3 MSD
Matrix: Water
Analysis Batch: 268708

Client Sample ID: PW-7G-GW-17072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	22.8		ug/L		91	10 - 150	1	35
Benzene	ND		25.0	25.4		ug/L		102	66 - 130	1	20
Bromobenzene	ND		25.0	25.7		ug/L		103	70 - 130	2	20
Bromochloromethane	ND		25.0	28.3		ug/L		113	70 - 130	6	25
Bromodichloromethane	ND		25.0	26.9		ug/L		108	70 - 138	4	20
Bromoform	ND		25.0	24.6		ug/L		98	59 - 150	2	25
Bromomethane	ND		25.0	29.7		ug/L		119	62 - 131	4	25
2-Butanone (MEK)	ND		25.0	25.2		ug/L		101	48 - 140	0	40
Carbon disulfide	ND		25.0	24.6		ug/L		98	49 - 140	7	20
Carbon tetrachloride	ND		25.0	29.8		ug/L		119	60 - 150	3	25
Chlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130	2	20
Chloroethane	ND		25.0	27.4		ug/L		110	68 - 130	0	25
Chloroform	ND		25.0	27.6		ug/L		110	70 - 130	4	20
Chloromethane	ND		25.0	27.5		ug/L		110	39 - 144	8	25
2-Chlorotoluene	ND		25.0	24.1		ug/L		96	70 - 130	1	20
4-Chlorotoluene	ND		25.0	24.2		ug/L		97	70 - 130	3	20
cis-1,2-Dichloroethene	ND		25.0	26.2		ug/L		105	70 - 130	4	20
cis-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	70 - 133	1	20
Dibromochloromethane	ND		25.0	25.6		ug/L		102	70 - 148	2	25
1,2-Dibromo-3-Chloropropane	ND		25.0	23.4		ug/L		94	48 - 140	5	30
1,2-Dibromoethane (EDB)	ND		25.0	26.9		ug/L		108	70 - 131	2	25
Dibromomethane	ND		25.0	27.5		ug/L		110	70 - 130	2	25
1,2-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	25.5		ug/L		102	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130	2	20
Dichlorodifluoromethane	ND		25.0	29.3		ug/L		117	25 - 142	5	30
1,1-Dichloroethane	ND		25.0	25.1		ug/L		100	65 - 130	3	20
1,2-Dichloroethane	ND		25.0	27.7		ug/L		111	56 - 146	5	20
1,1-Dichloroethene	ND		25.0	26.9		ug/L		108	70 - 130	2	20
1,2-Dichloropropane	ND		25.0	24.2		ug/L		97	69 - 130	3	20
1,3-Dichloropropane	ND		25.0	23.3		ug/L		93	70 - 130	2	25
2,2-Dichloropropane	ND		25.0	27.8		ug/L		111	69 - 138	2	25
1,1-Dichloropropene	ND		25.0	26.3		ug/L		105	64 - 130	5	20
Ethylbenzene	ND		25.0	24.3		ug/L		97	70 - 130	4	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	27.1		ug/L		109	70 - 130	5	25
Hexachlorobutadiene	ND		25.0	26.5		ug/L		106	10 - 150	2	20
2-Hexanone	ND		25.0	22.2		ug/L		89	10 - 150	1	35
Isopropylbenzene	ND		25.0	25.8		ug/L		103	70 - 132	1	20
Isopropyl Ether (DIPE)	ND		25.0	26.3		ug/L		105	64 - 138	1	25
Methylene Chloride	ND		25.0	24.2		ug/L		97	52 - 130	5	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	22.5		ug/L		90	52 - 150	5	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.5		ug/L		102	70 - 130	7	25
m,p-Xylene	ND		25.0	25.4		ug/L		102	70 - 133	0	25
Naphthalene	ND		25.0	25.1		ug/L		100	60 - 140	3	30
n-Butylbenzene	ND		25.0	24.3		ug/L		97	61 - 149	1	20
N-Propylbenzene	ND		25.0	24.4		ug/L		98	66 - 135	0	20
o-Xylene	ND		25.0	23.9		ug/L		95	70 - 133	3	20
p-Isopropyltoluene	ND		25.0	25.0		ug/L		100	70 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115677-3 MSD — **Client Sample ID: PW-7G-GW-17072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	23.9		ug/L		96	67 - 134	2	20
Styrene	ND		25.0	25.2		ug/L		101	29 - 150	5	35
Tert-amyl-methyl ether (TAME)	ND		25.0	26.3		ug/L		105	68 - 133	6	30
tert-Butyl alcohol (TBA)	ND		250	255		ug/L		102	70 - 130	2	25
tert-Butylbenzene	ND		25.0	25.8		ug/L		103	70 - 130	0	20
1,1,1,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	60 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	23.2		ug/L		93	63 - 130	0	30
Tetrachloroethene	ND		25.0	27.2		ug/L		109	70 - 137	0	20
Toluene	ND		25.0	24.5		ug/L		98	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	27.0		ug/L		108	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	70 - 138	5	25
1,2,3-Trichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140	3	20
1,2,4-Trichlorobenzene	ND		25.0	26.1		ug/L		104	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	28.0		ug/L		112	70 - 130	4	20
1,1,2-Trichloroethane	ND		25.0	24.8		ug/L		99	70 - 130	2	25
Trichloroethene	ND		25.0	28.1		ug/L		113	70 - 130	3	20
Trichlorofluoromethane	ND		25.0	29.1		ug/L		116	60 - 150	5	25
1,2,3-Trichloropropane	ND		25.0	21.8		ug/L		87	60 - 130	2	30
1,2,4-Trimethylbenzene	ND		25.0	24.4		ug/L		97	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		25.0	24.6		ug/L		98	70 - 130	0	20
Vinyl chloride	ND		25.0	27.5		ug/L		110	50 - 137	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*76 - 132*
Toluene-d8 (Surr)	*106*		*80 - 128*

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 440-268979/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268979

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/24/15 08:31	1

Lab Sample ID: LCS 440-268979/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268979

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	25.9		ug/L		104	85 - 115		

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 440-268979/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268979

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.06		ug/L		102	75 - 125

Lab Sample ID: 440-115580-D-4 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	530		250	757		ug/L		90	80 - 120

Lab Sample ID: 440-115580-D-4 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	530		250	747		ug/L		86	80 - 120	1	20

Lab Sample ID: MB 440-268980/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/24/15 08:29	1

Lab Sample ID: LCS 440-268980/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	27.4		ug/L		110	85 - 115

Lab Sample ID: MRL 440-268980/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268980

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.36		ug/L		109	75 - 125

Lab Sample ID: 440-115677-4 MS — **Client Sample ID: PW-7F-GW-17072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	40	F1	25.0	75.8	F1	ug/L		143	80 - 120

Lab Sample ID: 440-115677-4 MSD — **Client Sample ID: PW-7F-GW-17072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	40	F1	25.0	75.6	F1	ug/L		142	80 - 120	0	20

QC Association Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

GC/MS VOA

Analysis Batch: 268708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115677-1	17072015TB-1	Total/NA	Water	8260B	
440-115677-2	17072015EB-1	Total/NA	Water	8260B	
440-115677-3	PW-7G-GW-17072015	Total/NA	Water	8260B	
440-115677-3 MS	PW-7G-GW-17072015	Total/NA	Water	8260B	
440-115677-3 MSD	PW-7G-GW-17072015	Total/NA	Water	8260B	
440-115677-4	PW-7F-GW-17072015	Total/NA	Water	8260B	
440-115677-5	PW-7E-GW-17072015	Total/NA	Water	8260B	
440-115677-6	PW-7D-GW-17072015	Total/NA	Water	8260B	
440-115677-7	PW-7C-GW-17072015	Total/NA	Water	8260B	
440-115677-8	PW-7B-GW-17072015	Total/NA	Water	8260B	
440-115677-9	PW-8E-GW-17072015	Total/NA	Water	8260B	
440-115677-10	17072015D-1	Total/NA	Water	8260B	
LCS 440-268708/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-268708/4	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 268979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115580-D-4 MS	Matrix Spike	Total/NA	Water	314.0 LL	
440-115580-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
440-115677-6	PW-7D-GW-17072015	Total/NA	Water	314.0 LL	
LCS 440-268979/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-268979/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-268979/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Analysis Batch: 268980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115677-2	17072015EB-1	Total/NA	Water	314.0 LL	
440-115677-3	PW-7G-GW-17072015	Total/NA	Water	314.0 LL	
440-115677-4	PW-7F-GW-17072015	Total/NA	Water	314.0 LL	
440-115677-4 MS	PW-7F-GW-17072015	Total/NA	Water	314.0 LL	
440-115677-4 MSD	PW-7F-GW-17072015	Total/NA	Water	314.0 LL	
440-115677-5	PW-7E-GW-17072015	Total/NA	Water	314.0 LL	
440-115677-7	PW-7C-GW-17072015	Total/NA	Water	314.0 LL	
440-115677-8	PW-7B-GW-17072015	Total/NA	Water	314.0 LL	
440-115677-9	PW-8E-GW-17072015	Total/NA	Water	314.0 LL	
440-115677-10	17072015D-1	Total/NA	Water	314.0 LL	
LCS 440-268980/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-268980/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-268980/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115677-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16

* Certification renewal pending - certification considered valid.

TestAmerica Irvine
17461 Derian Ave
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7/17/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Trinh Hoang, Phillip Jeffers
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
17072015TB-1	7/17/15	0730	G	W	3	N	N	X		
17072015EB-1	7/17/15	1005	G	W	4	N	N	X	X	
PW-7G-GW-17072015	7/17/15	0850	G	W	10	N	N	X	X	MS/MSD on VOCs only
PW-7F-GW-17072015	7/17/15	0925	G	W	6	N	N	X	X	MS/MSD on Perchlorate only
PW-7E-GW-17072015	7/17/15	0955	G	W	4	N	N	X	X	
PW-7D-GW-17072015	7/17/15	1025	G	W	4	N	N	X	X	
PW-7C-GW-17072015	7/17/15	1100	G	W	4	N	N	X	X	
PW-7B-GW-17072015	7/17/15	1125	G	W	4	N	N	X	X	
PW-8E-GW-17072015	7/17/15	1500	G	W	4	N	N	X	X	
17072015D-1	7/17/15	—	G	W	4	N	N	X	X	
	/15		G	W		N	N			
	/15		G	W		N	N			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								1,2	1	

440-115677 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 1.6 Corr'd: 2.0 | Therm ID No.: #75

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	07/17/15-1700	[signature] George Gerundaw	DCS UPS	7/20/15 1600
[signature] George Gerundaw	DCS	7/20/15 1715			
			Received in Laboratory by: [signature]	Company: TA	Date/Time: 07/20/15 1715

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-115677-1

Login Number: 115677
List Number: 1
Creator: Blocker, Kristina M

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-115835-1
Client Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

For:
AECOM, Inc.
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Ms. Rebecca Mora

Authorized for release by:
7/30/2015 10:33:39 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-115835-1	20072015TB-1	Water	07/20/15 07:00	07/21/15 12:34
440-115835-2	20072015EB-1	Water	07/20/15 09:25	07/21/15 12:34
440-115835-3	PW-8D-GW-20072015	Water	07/20/15 08:35	07/21/15 12:34
440-115835-4	PW-8C-GW-20072015	Water	07/20/15 09:05	07/21/15 12:34
440-115835-5	PW-8B-GW-20072015	Water	07/20/15 09:45	07/21/15 12:34
440-115835-6	PW-8A-GW-20072015	Water	07/20/15 10:20	07/21/15 12:34
440-115835-7	20072015D-1	Water	07/20/15 00:01	07/21/15 12:34

Case Narrative

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Job ID: 440-115835-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-115835-1

Comments
No additional comments.

Receipt
The samples were received on 7/21/2015 12:34 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Client Sample ID: 20072015TB-1

Date Collected: 07/20/15 07:00
Date Received: 07/21/15 12:34

Lab Sample ID: 440-115835-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/24/15 14:47	1
Benzene	ND		0.50		ug/L			07/24/15 14:47	1
Bromobenzene	ND		1.0		ug/L			07/24/15 14:47	1
Bromochloromethane	ND		1.0		ug/L			07/24/15 14:47	1
Bromodichloromethane	ND		1.0		ug/L			07/24/15 14:47	1
Bromoform	ND		1.0		ug/L			07/24/15 14:47	1
Bromomethane	ND		2.0		ug/L			07/24/15 14:47	1
1,3-Butadiene	ND		1.0		ug/L			07/24/15 14:47	1
2-Butanone (MEK)	ND		10		ug/L			07/24/15 14:47	1
Carbon disulfide	ND		2.0		ug/L			07/24/15 14:47	1
Carbon tetrachloride	ND		1.0		ug/L			07/24/15 14:47	1
Chlorobenzene	ND		1.0		ug/L			07/24/15 14:47	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/24/15 14:47	1
Chloroethane	ND		1.0		ug/L			07/24/15 14:47	1
Chloroform	ND		1.0		ug/L			07/24/15 14:47	1
Chloromethane	ND		1.0		ug/L			07/24/15 14:47	1
2-Chlorotoluene	ND		2.0		ug/L			07/24/15 14:47	1
4-Chlorotoluene	ND		2.0		ug/L			07/24/15 14:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/24/15 14:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/24/15 14:47	1
Dibromochloromethane	ND		1.0		ug/L			07/24/15 14:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/24/15 14:47	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/24/15 14:47	1
Dibromomethane	ND		1.0		ug/L			07/24/15 14:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/24/15 14:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/24/15 14:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/24/15 14:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/24/15 14:47	1
1,1-Dichloroethane	ND		1.0		ug/L			07/24/15 14:47	1
1,2-Dichloroethane	ND		0.50		ug/L			07/24/15 14:47	1
1,1-Dichloroethene	ND		1.0		ug/L			07/24/15 14:47	1
1,2-Dichloropropane	ND		1.0		ug/L			07/24/15 14:47	1
1,3-Dichloropropane	ND		1.0		ug/L			07/24/15 14:47	1
2,2-Dichloropropane	ND		1.0		ug/L			07/24/15 14:47	1
1,1-Dichloropropene	ND		1.0		ug/L			07/24/15 14:47	1
Ethylbenzene	ND		1.0		ug/L			07/24/15 14:47	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/24/15 14:47	1
Hexachlorobutadiene	ND		2.0		ug/L			07/24/15 14:47	1
2-Hexanone	ND		10		ug/L			07/24/15 14:47	1
Isopropylbenzene	ND		1.0		ug/L			07/24/15 14:47	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/24/15 14:47	1
Methylene Chloride	ND		5.0		ug/L			07/24/15 14:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/24/15 14:47	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/24/15 14:47	1
m,p-Xylene	ND		1.0		ug/L			07/24/15 14:47	1
Naphthalene	ND		5.0		ug/L			07/24/15 14:47	1
n-Butylbenzene	ND		2.0		ug/L			07/24/15 14:47	1
N-Propylbenzene	ND		2.0		ug/L			07/24/15 14:47	1
o-Xylene	ND		1.0		ug/L			07/24/15 14:47	1

Client Sample ID: 20072015TB-1

Lab Sample ID: 440-115835-1
Date Collected: 07/20/15 07:00
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/24/15 14:47	1
sec-Butylbenzene	ND		2.0	ug/L			07/24/15 14:47	1
Styrene	ND		1.0	ug/L			07/24/15 14:47	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/24/15 14:47	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/24/15 14:47	1
tert-Butylbenzene	ND		2.0	ug/L			07/24/15 14:47	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/24/15 14:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/24/15 14:47	1
Tetrachloroethene	ND		1.0	ug/L			07/24/15 14:47	1
Toluene	ND		1.0	ug/L			07/24/15 14:47	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/24/15 14:47	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/24/15 14:47	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/24/15 14:47	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/24/15 14:47	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/24/15 14:47	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/24/15 14:47	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/24/15 14:47	1
Trichloroethene	ND		1.0	ug/L			07/24/15 14:47	1
Trichlorofluoromethane	ND		1.0	ug/L			07/24/15 14:47	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/24/15 14:47	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/24/15 14:47	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/24/15 14:47	1
Vinyl chloride	ND		0.50	ug/L			07/24/15 14:47	1
Xylenes, Total	ND		2.0	ug/L			07/24/15 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/24/15 14:47*	*1*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*07/24/15 14:47*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/24/15 14:47*	*1*

Client Sample ID: 20072015EB-1

Lab Sample ID: 440-115835-2
Date Collected: 07/20/15 09:25
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/24/15 14:18	1
Benzene	ND		0.50	ug/L			07/24/15 14:18	1
Bromobenzene	ND		1.0	ug/L			07/24/15 14:18	1
Bromochloromethane	ND		1.0	ug/L			07/24/15 14:18	1
Bromodichloromethane	ND		1.0	ug/L			07/24/15 14:18	1
Bromoform	ND		1.0	ug/L			07/24/15 14:18	1
Bromomethane	ND		2.0	ug/L			07/24/15 14:18	1
1,3-Butadiene	ND		1.0	ug/L			07/24/15 14:18	1
2-Butanone (MEK)	ND		10	ug/L			07/24/15 14:18	1
Carbon disulfide	ND		2.0	ug/L			07/24/15 14:18	1
Carbon tetrachloride	ND		1.0	ug/L			07/24/15 14:18	1
Chlorobenzene	ND		1.0	ug/L			07/24/15 14:18	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/24/15 14:18	1
Chloroethane	ND		1.0	ug/L			07/24/15 14:18	1

Client Sample ID: 20072015EB-1

Date Collected: 07/20/15 09:25
Date Received: 07/21/15 12:34

Lab Sample ID: 440-115835-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0		ug/L			07/24/15 14:18	1
Chloromethane	ND		1.0		ug/L			07/24/15 14:18	1
2-Chlorotoluene	ND		2.0		ug/L			07/24/15 14:18	1
4-Chlorotoluene	ND		2.0		ug/L			07/24/15 14:18	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/24/15 14:18	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/24/15 14:18	1
Dibromochloromethane	ND		1.0		ug/L			07/24/15 14:18	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/24/15 14:18	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/24/15 14:18	1
Dibromomethane	ND		1.0		ug/L			07/24/15 14:18	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/24/15 14:18	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/24/15 14:18	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/24/15 14:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/24/15 14:18	1
1,1-Dichloroethane	ND		1.0		ug/L			07/24/15 14:18	1
1,2-Dichloroethane	ND		0.50		ug/L			07/24/15 14:18	1
1,1-Dichloroethene	ND		1.0		ug/L			07/24/15 14:18	1
1,2-Dichloropropane	ND		1.0		ug/L			07/24/15 14:18	1
1,3-Dichloropropane	ND		1.0		ug/L			07/24/15 14:18	1
2,2-Dichloropropane	ND		1.0		ug/L			07/24/15 14:18	1
1,1-Dichloropropene	ND		1.0		ug/L			07/24/15 14:18	1
Ethylbenzene	ND		1.0		ug/L			07/24/15 14:18	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/24/15 14:18	1
Hexachlorobutadiene	ND		2.0		ug/L			07/24/15 14:18	1
2-Hexanone	ND		10		ug/L			07/24/15 14:18	1
Isopropylbenzene	ND		1.0		ug/L			07/24/15 14:18	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/24/15 14:18	1
Methylene Chloride	ND		5.0		ug/L			07/24/15 14:18	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/24/15 14:18	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/24/15 14:18	1
m,p-Xylene	ND		1.0		ug/L			07/24/15 14:18	1
Naphthalene	ND		5.0		ug/L			07/24/15 14:18	1
n-Butylbenzene	ND		2.0		ug/L			07/24/15 14:18	1
N-Propylbenzene	ND		2.0		ug/L			07/24/15 14:18	1
o-Xylene	ND		1.0		ug/L			07/24/15 14:18	1
p-Isopropyltoluene	ND		2.0		ug/L			07/24/15 14:18	1
sec-Butylbenzene	ND		2.0		ug/L			07/24/15 14:18	1
Styrene	ND		1.0		ug/L			07/24/15 14:18	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/24/15 14:18	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/24/15 14:18	1
tert-Butylbenzene	ND		2.0		ug/L			07/24/15 14:18	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/24/15 14:18	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/24/15 14:18	1
Tetrachloroethene	ND		1.0		ug/L			07/24/15 14:18	1
Toluene	ND		1.0		ug/L			07/24/15 14:18	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/24/15 14:18	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/24/15 14:18	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/24/15 14:18	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/24/15 14:18	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Client Sample ID: 20072015EB-1

Lab Sample ID: 440-115835-2
Date Collected: 07/20/15 09:25
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/24/15 14:18	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/24/15 14:18	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/24/15 14:18	1
Trichloroethene	ND		1.0	ug/L			07/24/15 14:18	1
Trichlorofluoromethane	ND		1.0	ug/L			07/24/15 14:18	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/24/15 14:18	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/24/15 14:18	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/24/15 14:18	1
Vinyl chloride	ND		0.50	ug/L			07/24/15 14:18	1
Xylenes, Total	ND		2.0	ug/L			07/24/15 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*07/24/15 14:18*	*1*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*07/24/15 14:18*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*07/24/15 14:18*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/24/15 15:11	1

Client Sample ID: PW-8D-GW-20072015

Lab Sample ID: 440-115835-3
Date Collected: 07/20/15 08:35
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/24/15 10:31	1
Benzene	ND		0.50	ug/L			07/24/15 10:31	1
Bromobenzene	ND		1.0	ug/L			07/24/15 10:31	1
Bromochloromethane	ND		1.0	ug/L			07/24/15 10:31	1
Bromodichloromethane	ND		1.0	ug/L			07/24/15 10:31	1
Bromoform	ND		1.0	ug/L			07/24/15 10:31	1
Bromomethane	ND		2.0	ug/L			07/24/15 10:31	1
1,3-Butadiene	ND		1.0	ug/L			07/24/15 10:31	1
2-Butanone (MEK)	ND		10	ug/L			07/24/15 10:31	1
Carbon disulfide	ND		2.0	ug/L			07/24/15 10:31	1
Carbon tetrachloride	ND		1.0	ug/L			07/24/15 10:31	1
Chlorobenzene	ND		1.0	ug/L			07/24/15 10:31	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/24/15 10:31	1
Chloroethane	ND		1.0	ug/L			07/24/15 10:31	1
Chloroform	ND		1.0	ug/L			07/24/15 10:31	1
Chloromethane	ND		1.0	ug/L			07/24/15 10:31	1
2-Chlorotoluene	ND		2.0	ug/L			07/24/15 10:31	1
4-Chlorotoluene	ND		2.0	ug/L			07/24/15 10:31	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/24/15 10:31	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/24/15 10:31	1
Dibromochloromethane	ND		1.0	ug/L			07/24/15 10:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/24/15 10:31	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/24/15 10:31	1
Dibromomethane	ND		1.0	ug/L			07/24/15 10:31	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Client Sample ID: PW-8D-GW-20072015

Lab Sample ID: 440-115835-3
Date Collected: 07/20/15 08:35
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0		ug/L			07/24/15 10:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/24/15 10:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/24/15 10:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/24/15 10:31	1
1,1-Dichloroethane	ND		1.0		ug/L			07/24/15 10:31	1
1,2-Dichloroethane	ND		0.50		ug/L			07/24/15 10:31	1
1,1-Dichloroethene	ND		1.0		ug/L			07/24/15 10:31	1
1,2-Dichloropropane	ND		1.0		ug/L			07/24/15 10:31	1
1,3-Dichloropropane	ND		1.0		ug/L			07/24/15 10:31	1
2,2-Dichloropropane	ND		1.0		ug/L			07/24/15 10:31	1
1,1-Dichloropropene	ND		1.0		ug/L			07/24/15 10:31	1
Ethylbenzene	ND		1.0		ug/L			07/24/15 10:31	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/24/15 10:31	1
Hexachlorobutadiene	ND		2.0		ug/L			07/24/15 10:31	1
2-Hexanone	ND		10		ug/L			07/24/15 10:31	1
Isopropylbenzene	ND		1.0		ug/L			07/24/15 10:31	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/24/15 10:31	1
Methylene Chloride	ND		5.0		ug/L			07/24/15 10:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/24/15 10:31	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/24/15 10:31	1
m,p-Xylene	ND		1.0		ug/L			07/24/15 10:31	1
Naphthalene	ND		5.0		ug/L			07/24/15 10:31	1
n-Butylbenzene	ND		2.0		ug/L			07/24/15 10:31	1
N-Propylbenzene	ND		2.0		ug/L			07/24/15 10:31	1
o-Xylene	ND		1.0		ug/L			07/24/15 10:31	1
p-Isopropyltoluene	ND		2.0		ug/L			07/24/15 10:31	1
sec-Butylbenzene	ND		2.0		ug/L			07/24/15 10:31	1
Styrene	ND		1.0		ug/L			07/24/15 10:31	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/24/15 10:31	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/24/15 10:31	1
tert-Butylbenzene	ND		2.0		ug/L			07/24/15 10:31	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/24/15 10:31	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/24/15 10:31	1
Tetrachloroethene	ND		1.0		ug/L			07/24/15 10:31	1
Toluene	ND		1.0		ug/L			07/24/15 10:31	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/24/15 10:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/24/15 10:31	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/24/15 10:31	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/24/15 10:31	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/24/15 10:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/24/15 10:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/24/15 10:31	1
Trichloroethene	ND		1.0		ug/L			07/24/15 10:31	1
Trichlorofluoromethane	ND		1.0		ug/L			07/24/15 10:31	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/24/15 10:31	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/24/15 10:31	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/24/15 10:31	1
Vinyl chloride	ND		0.50		ug/L			07/24/15 10:31	1
Xylenes, Total	ND		2.0		ug/L			07/24/15 10:31	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Client Sample ID: PW-8D-GW-20072015

Lab Sample ID: 440-115835-3
Date Collected: 07/20/15 08:35
Matrix: Water
Date Received: 07/21/15 12:34

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/24/15 10:31*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*07/24/15 10:31*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/24/15 10:31*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/24/15 15:28	1

Client Sample ID: PW-8C-GW-20072015

Lab Sample ID: 440-115835-4
Date Collected: 07/20/15 09:05
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/24/15 12:25	1
Benzene	ND		0.50	ug/L			07/24/15 12:25	1
Bromobenzene	ND		1.0	ug/L			07/24/15 12:25	1
Bromochloromethane	ND		1.0	ug/L			07/24/15 12:25	1
Bromodichloromethane	ND		1.0	ug/L			07/24/15 12:25	1
Bromoform	ND		1.0	ug/L			07/24/15 12:25	1
Bromomethane	ND		2.0	ug/L			07/24/15 12:25	1
1,3-Butadiene	ND		1.0	ug/L			07/24/15 12:25	1
2-Butanone (MEK)	ND		10	ug/L			07/24/15 12:25	1
Carbon disulfide	ND		2.0	ug/L			07/24/15 12:25	1
Carbon tetrachloride	ND		1.0	ug/L			07/24/15 12:25	1
Chlorobenzene	ND		1.0	ug/L			07/24/15 12:25	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/24/15 12:25	1
Chloroethane	ND		1.0	ug/L			07/24/15 12:25	1
Chloroform	ND		1.0	ug/L			07/24/15 12:25	1
Chloromethane	ND		1.0	ug/L			07/24/15 12:25	1
2-Chlorotoluene	ND		2.0	ug/L			07/24/15 12:25	1
4-Chlorotoluene	ND		2.0	ug/L			07/24/15 12:25	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/24/15 12:25	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/24/15 12:25	1
Dibromochloromethane	ND		1.0	ug/L			07/24/15 12:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/24/15 12:25	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/24/15 12:25	1
Dibromomethane	ND		1.0	ug/L			07/24/15 12:25	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/24/15 12:25	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/24/15 12:25	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/24/15 12:25	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/24/15 12:25	1
1,1-Dichloroethane	ND		1.0	ug/L			07/24/15 12:25	1
1,2-Dichloroethane	ND		0.50	ug/L			07/24/15 12:25	1
1,1-Dichloroethene	ND		1.0	ug/L			07/24/15 12:25	1
1,2-Dichloropropane	ND		1.0	ug/L			07/24/15 12:25	1
1,3-Dichloropropane	ND		1.0	ug/L			07/24/15 12:25	1
2,2-Dichloropropane	ND		1.0	ug/L			07/24/15 12:25	1
1,1-Dichloropropene	ND		1.0	ug/L			07/24/15 12:25	1
Ethylbenzene	ND		1.0	ug/L			07/24/15 12:25	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Client Sample ID: PW-8C-GW-20072015

Lab Sample ID: 440-115835-4

Date Collected: 07/20/15 09:05
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/24/15 12:25	1
Hexachlorobutadiene	ND		2.0	ug/L			07/24/15 12:25	1
2-Hexanone	ND		10	ug/L			07/24/15 12:25	1
Isopropylbenzene	ND		1.0	ug/L			07/24/15 12:25	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/24/15 12:25	1
Methylene Chloride	ND		5.0	ug/L			07/24/15 12:25	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/24/15 12:25	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/24/15 12:25	1
m,p-Xylene	ND		1.0	ug/L			07/24/15 12:25	1
Naphthalene	ND		5.0	ug/L			07/24/15 12:25	1
n-Butylbenzene	ND		2.0	ug/L			07/24/15 12:25	1
N-Propylbenzene	ND		2.0	ug/L			07/24/15 12:25	1
o-Xylene	ND		1.0	ug/L			07/24/15 12:25	1
p-Isopropyltoluene	ND		2.0	ug/L			07/24/15 12:25	1
sec-Butylbenzene	ND		2.0	ug/L			07/24/15 12:25	1
Styrene	ND		1.0	ug/L			07/24/15 12:25	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/24/15 12:25	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/24/15 12:25	1
tert-Butylbenzene	ND		2.0	ug/L			07/24/15 12:25	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/24/15 12:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/24/15 12:25	1
Tetrachloroethene	ND		1.0	ug/L			07/24/15 12:25	1
Toluene	ND		1.0	ug/L			07/24/15 12:25	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/24/15 12:25	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/24/15 12:25	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/24/15 12:25	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/24/15 12:25	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/24/15 12:25	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/24/15 12:25	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/24/15 12:25	1
Trichloroethene	ND		1.0	ug/L			07/24/15 12:25	1
Trichlorofluoromethane	ND		1.0	ug/L			07/24/15 12:25	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/24/15 12:25	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/24/15 12:25	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/24/15 12:25	1
Vinyl chloride	ND		0.50	ug/L			07/24/15 12:25	1
Xylenes, Total	ND		2.0	ug/L			07/24/15 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/24/15 12:25*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*07/24/15 12:25*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/24/15 12:25*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**44**		3.0	ug/L			07/24/15 15:45	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Client Sample ID: PW-8B-GW-20072015

Lab Sample ID: 440-115835-5

Date Collected: 07/20/15 09:45

Matrix: Water

Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/24/15 12:53	1
Benzene	ND		0.50		ug/L			07/24/15 12:53	1
Bromobenzene	ND		1.0		ug/L			07/24/15 12:53	1
Bromochloromethane	ND		1.0		ug/L			07/24/15 12:53	1
Bromodichloromethane	ND		1.0		ug/L			07/24/15 12:53	1
Bromoform	ND		1.0		ug/L			07/24/15 12:53	1
Bromomethane	ND		2.0		ug/L			07/24/15 12:53	1
1,3-Butadiene	ND		1.0		ug/L			07/24/15 12:53	1
2-Butanone (MEK)	ND		10		ug/L			07/24/15 12:53	1
Carbon disulfide	ND		2.0		ug/L			07/24/15 12:53	1
Carbon tetrachloride	ND		1.0		ug/L			07/24/15 12:53	1
Chlorobenzene	ND		1.0		ug/L			07/24/15 12:53	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/24/15 12:53	1
Chloroethane	ND		1.0		ug/L			07/24/15 12:53	1
Chloroform	ND		1.0		ug/L			07/24/15 12:53	1
Chloromethane	ND		1.0		ug/L			07/24/15 12:53	1
2-Chlorotoluene	ND		2.0		ug/L			07/24/15 12:53	1
4-Chlorotoluene	ND		2.0		ug/L			07/24/15 12:53	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/24/15 12:53	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/24/15 12:53	1
Dibromochloromethane	ND		1.0		ug/L			07/24/15 12:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/24/15 12:53	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/24/15 12:53	1
Dibromomethane	ND		1.0		ug/L			07/24/15 12:53	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/24/15 12:53	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/24/15 12:53	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/24/15 12:53	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/24/15 12:53	1
1,1-Dichloroethane	ND		1.0		ug/L			07/24/15 12:53	1
1,2-Dichloroethane	ND		0.50		ug/L			07/24/15 12:53	1
1,1-Dichloroethene	ND		1.0		ug/L			07/24/15 12:53	1
1,2-Dichloropropane	ND		1.0		ug/L			07/24/15 12:53	1
1,3-Dichloropropane	ND		1.0		ug/L			07/24/15 12:53	1
2,2-Dichloropropane	ND		1.0		ug/L			07/24/15 12:53	1
1,1-Dichloropropene	ND		1.0		ug/L			07/24/15 12:53	1
Ethylbenzene	ND		1.0		ug/L			07/24/15 12:53	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/24/15 12:53	1
Hexachlorobutadiene	ND		2.0		ug/L			07/24/15 12:53	1
2-Hexanone	ND		10		ug/L			07/24/15 12:53	1
Isopropylbenzene	ND		1.0		ug/L			07/24/15 12:53	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/24/15 12:53	1
Methylene Chloride	ND		5.0		ug/L			07/24/15 12:53	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/24/15 12:53	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/24/15 12:53	1
m,p-Xylene	ND		1.0		ug/L			07/24/15 12:53	1
Naphthalene	ND		5.0		ug/L			07/24/15 12:53	1
n-Butylbenzene	ND		2.0		ug/L			07/24/15 12:53	1
N-Propylbenzene	ND		2.0		ug/L			07/24/15 12:53	1
o-Xylene	ND		1.0		ug/L			07/24/15 12:53	1

Client Sample ID: PW-8B-GW-20072015

Lab Sample ID: 440-115835-5
Date Collected: 07/20/15 09:45
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/24/15 12:53	1
sec-Butylbenzene	ND		2.0	ug/L			07/24/15 12:53	1
Styrene	ND		1.0	ug/L			07/24/15 12:53	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/24/15 12:53	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/24/15 12:53	1
tert-Butylbenzene	ND		2.0	ug/L			07/24/15 12:53	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/24/15 12:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/24/15 12:53	1
Tetrachloroethene	ND		1.0	ug/L			07/24/15 12:53	1
Toluene	ND		1.0	ug/L			07/24/15 12:53	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/24/15 12:53	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/24/15 12:53	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/24/15 12:53	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/24/15 12:53	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/24/15 12:53	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/24/15 12:53	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/24/15 12:53	1
Trichloroethene	**19**		1.0	ug/L			07/24/15 12:53	1
Trichlorofluoromethane	ND		1.0	ug/L			07/24/15 12:53	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/24/15 12:53	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/24/15 12:53	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/24/15 12:53	1
Vinyl chloride	ND		0.50	ug/L			07/24/15 12:53	1
Xylenes, Total	ND		2.0	ug/L			07/24/15 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/24/15 12:53*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*07/24/15 12:53*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/24/15 12:53*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**98**		3.0	ug/L			07/24/15 16:02	1

Client Sample ID: PW-8A-GW-20072015

Lab Sample ID: 440-115835-6
Date Collected: 07/20/15 10:20
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/24/15 13:22	1
Benzene	ND		0.50	ug/L			07/24/15 13:22	1
Bromobenzene	ND		1.0	ug/L			07/24/15 13:22	1
Bromochloromethane	ND		1.0	ug/L			07/24/15 13:22	1
Bromodichloromethane	ND		1.0	ug/L			07/24/15 13:22	1
Bromoform	ND		1.0	ug/L			07/24/15 13:22	1
Bromomethane	ND		2.0	ug/L			07/24/15 13:22	1
1,3-Butadiene	ND		1.0	ug/L			07/24/15 13:22	1
2-Butanone (MEK)	ND		10	ug/L			07/24/15 13:22	1
Carbon disulfide	ND		2.0	ug/L			07/24/15 13:22	1

Client Sample ID: PW-8A-GW-20072015

Lab Sample ID: 440-115835-6

Date Collected: 07/20/15 10:20

Matrix: Water

Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	ug/L			07/24/15 13:22	1
Chlorobenzene	ND		1.0	ug/L			07/24/15 13:22	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/24/15 13:22	1
Chloroethane	ND		1.0	ug/L			07/24/15 13:22	1
Chloroform	ND		1.0	ug/L			07/24/15 13:22	1
Chloromethane	ND		1.0	ug/L			07/24/15 13:22	1
2-Chlorotoluene	ND		2.0	ug/L			07/24/15 13:22	1
4-Chlorotoluene	ND		2.0	ug/L			07/24/15 13:22	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/24/15 13:22	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/24/15 13:22	1
Dibromochloromethane	ND		1.0	ug/L			07/24/15 13:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/24/15 13:22	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/24/15 13:22	1
Dibromomethane	ND		1.0	ug/L			07/24/15 13:22	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/24/15 13:22	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/24/15 13:22	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/24/15 13:22	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/24/15 13:22	1
1,1-Dichloroethane	ND		1.0	ug/L			07/24/15 13:22	1
1,2-Dichloroethane	ND		0.50	ug/L			07/24/15 13:22	1
1,1-Dichloroethene	ND		1.0	ug/L			07/24/15 13:22	1
1,2-Dichloropropane	ND		1.0	ug/L			07/24/15 13:22	1
1,3-Dichloropropane	ND		1.0	ug/L			07/24/15 13:22	1
2,2-Dichloropropane	ND		1.0	ug/L			07/24/15 13:22	1
1,1-Dichloropropene	ND		1.0	ug/L			07/24/15 13:22	1
Ethylbenzene	ND		1.0	ug/L			07/24/15 13:22	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/24/15 13:22	1
Hexachlorobutadiene	ND		2.0	ug/L			07/24/15 13:22	1
2-Hexanone	ND		10	ug/L			07/24/15 13:22	1
Isopropylbenzene	ND		1.0	ug/L			07/24/15 13:22	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/24/15 13:22	1
Methylene Chloride	ND		5.0	ug/L			07/24/15 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/24/15 13:22	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/24/15 13:22	1
m,p-Xylene	ND		1.0	ug/L			07/24/15 13:22	1
Naphthalene	ND		5.0	ug/L			07/24/15 13:22	1
n-Butylbenzene	ND		2.0	ug/L			07/24/15 13:22	1
N-Propylbenzene	ND		2.0	ug/L			07/24/15 13:22	1
o-Xylene	ND		1.0	ug/L			07/24/15 13:22	1
p-Isopropyltoluene	ND		2.0	ug/L			07/24/15 13:22	1
sec-Butylbenzene	ND		2.0	ug/L			07/24/15 13:22	1
Styrene	ND		1.0	ug/L			07/24/15 13:22	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/24/15 13:22	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/24/15 13:22	1
tert-Butylbenzene	ND		2.0	ug/L			07/24/15 13:22	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/24/15 13:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/24/15 13:22	1
Tetrachloroethene	ND		1.0	ug/L			07/24/15 13:22	1
Toluene	ND		1.0	ug/L			07/24/15 13:22	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Client Sample ID: PW-8A-GW-20072015

Lab Sample ID: 440-115835-6
Date Collected: 07/20/15 10:20
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/24/15 13:22	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/24/15 13:22	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/24/15 13:22	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/24/15 13:22	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/24/15 13:22	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/24/15 13:22	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/24/15 13:22	1
Trichloroethene	**14**		1.0	ug/L			07/24/15 13:22	1
Trichlorofluoromethane	ND		1.0	ug/L			07/24/15 13:22	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/24/15 13:22	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/24/15 13:22	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/24/15 13:22	1
Vinyl chloride	ND		0.50	ug/L			07/24/15 13:22	1
Xylenes, Total	ND		2.0	ug/L			07/24/15 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/24/15 13:22*	*1*
Dibromofluoromethane (Surr)	*113*		*76 - 132*		*07/24/15 13:22*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/24/15 13:22*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**42**		3.0	ug/L			07/24/15 16:19	1

Client Sample ID: 20072015D-1

Lab Sample ID: 440-115835-7
Date Collected: 07/20/15 00:01
Matrix: Water
Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/24/15 13:50	1
Benzene	ND		0.50	ug/L			07/24/15 13:50	1
Bromobenzene	ND		1.0	ug/L			07/24/15 13:50	1
Bromochloromethane	ND		1.0	ug/L			07/24/15 13:50	1
Bromodichloromethane	ND		1.0	ug/L			07/24/15 13:50	1
Bromoform	ND		1.0	ug/L			07/24/15 13:50	1
Bromomethane	ND		2.0	ug/L			07/24/15 13:50	1
1,3-Butadiene	ND		1.0	ug/L			07/24/15 13:50	1
2-Butanone (MEK)	ND		10	ug/L			07/24/15 13:50	1
Carbon disulfide	ND		2.0	ug/L			07/24/15 13:50	1
Carbon tetrachloride	ND		1.0	ug/L			07/24/15 13:50	1
Chlorobenzene	ND		1.0	ug/L			07/24/15 13:50	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/24/15 13:50	1
Chloroethane	ND		1.0	ug/L			07/24/15 13:50	1
Chloroform	ND		1.0	ug/L			07/24/15 13:50	1
Chloromethane	ND		1.0	ug/L			07/24/15 13:50	1
2-Chlorotoluene	ND		2.0	ug/L			07/24/15 13:50	1
4-Chlorotoluene	ND		2.0	ug/L			07/24/15 13:50	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/24/15 13:50	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/24/15 13:50	1

Client Sample ID: 20072015D-1

Lab Sample ID: 440-115835-7

Date Collected: 07/20/15 00:01

Matrix: Water

Date Received: 07/21/15 12:34

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	ug/L			07/24/15 13:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/24/15 13:50	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/24/15 13:50	1
Dibromomethane	ND		1.0	ug/L			07/24/15 13:50	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/24/15 13:50	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/24/15 13:50	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/24/15 13:50	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/24/15 13:50	1
1,1-Dichloroethane	ND		1.0	ug/L			07/24/15 13:50	1
1,2-Dichloroethane	ND		0.50	ug/L			07/24/15 13:50	1
1,1-Dichloroethene	ND		1.0	ug/L			07/24/15 13:50	1
1,2-Dichloropropane	ND		1.0	ug/L			07/24/15 13:50	1
1,3-Dichloropropane	ND		1.0	ug/L			07/24/15 13:50	1
2,2-Dichloropropane	ND		1.0	ug/L			07/24/15 13:50	1
1,1-Dichloropropene	ND		1.0	ug/L			07/24/15 13:50	1
Ethylbenzene	ND		1.0	ug/L			07/24/15 13:50	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/24/15 13:50	1
Hexachlorobutadiene	ND		2.0	ug/L			07/24/15 13:50	1
2-Hexanone	ND		10	ug/L			07/24/15 13:50	1
Isopropylbenzene	ND		1.0	ug/L			07/24/15 13:50	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/24/15 13:50	1
Methylene Chloride	ND		5.0	ug/L			07/24/15 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/24/15 13:50	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/24/15 13:50	1
m,p-Xylene	ND		1.0	ug/L			07/24/15 13:50	1
Naphthalene	ND		5.0	ug/L			07/24/15 13:50	1
n-Butylbenzene	ND		2.0	ug/L			07/24/15 13:50	1
N-Propylbenzene	ND		2.0	ug/L			07/24/15 13:50	1
o-Xylene	ND		1.0	ug/L			07/24/15 13:50	1
p-Isopropyltoluene	ND		2.0	ug/L			07/24/15 13:50	1
sec-Butylbenzene	ND		2.0	ug/L			07/24/15 13:50	1
Styrene	ND		1.0	ug/L			07/24/15 13:50	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/24/15 13:50	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/24/15 13:50	1
tert-Butylbenzene	ND		2.0	ug/L			07/24/15 13:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/24/15 13:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/24/15 13:50	1
Tetrachloroethene	ND		1.0	ug/L			07/24/15 13:50	1
Toluene	ND		1.0	ug/L			07/24/15 13:50	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/24/15 13:50	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/24/15 13:50	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/24/15 13:50	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/24/15 13:50	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/24/15 13:50	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/24/15 13:50	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/24/15 13:50	1
Trichloroethene	ND		1.0	ug/L			07/24/15 13:50	1
Trichlorofluoromethane	ND		1.0	ug/L			07/24/15 13:50	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/24/15 13:50	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Client Sample ID: 20072015D-1

Date Collected: 07/20/15 00:01
Date Received: 07/21/15 12:34

Lab Sample ID: 440-115835-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/24/15 13:50	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/24/15 13:50	1
Vinyl chloride	ND		0.50	ug/L			07/24/15 13:50	1
Xylenes, Total	ND		2.0	ug/L			07/24/15 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/24/15 13:50*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*07/24/15 13:50*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/24/15 13:50*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/24/15 16:36	1

Method Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
314.0 LL	Perchlorate (IC)	EPA	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Client Sample ID: 20072015TB-1 — Lab Sample ID: 440-115835-1

Date Collected: 07/20/15 07:00 — **Matrix: Water**
Date Received: 07/21/15 12:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268951	07/24/15 14:47	SS	TAL IRV

Client Sample ID: 20072015EB-1 — Lab Sample ID: 440-115835-2

Date Collected: 07/20/15 09:25 — **Matrix: Water**
Date Received: 07/21/15 12:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268951	07/24/15 14:18	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 15:11	CH	TAL IRV

Client Sample ID: PW-8D-GW-20072015 — Lab Sample ID: 440-115835-3

Date Collected: 07/20/15 08:35 — **Matrix: Water**
Date Received: 07/21/15 12:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268951	07/24/15 10:31	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 15:28	CH	TAL IRV

Client Sample ID: PW-8C-GW-20072015 — Lab Sample ID: 440-115835-4

Date Collected: 07/20/15 09:05 — **Matrix: Water**
Date Received: 07/21/15 12:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268951	07/24/15 12:25	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 15:45	CH	TAL IRV

Client Sample ID: PW-8B-GW-20072015 — Lab Sample ID: 440-115835-5

Date Collected: 07/20/15 09:45 — **Matrix: Water**
Date Received: 07/21/15 12:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268951	07/24/15 12:53	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 16:02	CH	TAL IRV

Client Sample ID: PW-8A-GW-20072015 — Lab Sample ID: 440-115835-6

Date Collected: 07/20/15 10:20 — **Matrix: Water**
Date Received: 07/21/15 12:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268951	07/24/15 13:22	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 16:19	CH	TAL IRV

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Client Sample ID: 20072015D-1

Date Collected: 07/20/15 00:01
Date Received: 07/21/15 12:34

Lab Sample ID: 440-115835-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	268951	07/24/15 13:50	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		268980	07/24/15 16:36	CH	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-268951/4
Matrix: Water
Analysis Batch: 268951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/24/15 08:10	1
Benzene	ND		0.50	ug/L			07/24/15 08:10	1
Bromobenzene	ND		1.0	ug/L			07/24/15 08:10	1
Bromochloromethane	ND		1.0	ug/L			07/24/15 08:10	1
Bromodichloromethane	ND		1.0	ug/L			07/24/15 08:10	1
Bromoform	ND		1.0	ug/L			07/24/15 08:10	1
Bromomethane	ND		2.0	ug/L			07/24/15 08:10	1
1,3-Butadiene	ND		1.0	ug/L			07/24/15 08:10	1
2-Butanone (MEK)	ND		10	ug/L			07/24/15 08:10	1
Carbon disulfide	ND		2.0	ug/L			07/24/15 08:10	1
Carbon tetrachloride	ND		1.0	ug/L			07/24/15 08:10	1
Chlorobenzene	ND		1.0	ug/L			07/24/15 08:10	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/24/15 08:10	1
Chloroethane	ND		1.0	ug/L			07/24/15 08:10	1
Chloroform	ND		1.0	ug/L			07/24/15 08:10	1
Chloromethane	ND		1.0	ug/L			07/24/15 08:10	1
2-Chlorotoluene	ND		2.0	ug/L			07/24/15 08:10	1
4-Chlorotoluene	ND		2.0	ug/L			07/24/15 08:10	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/24/15 08:10	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/24/15 08:10	1
Dibromochloromethane	ND		1.0	ug/L			07/24/15 08:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/24/15 08:10	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/24/15 08:10	1
Dibromomethane	ND		1.0	ug/L			07/24/15 08:10	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/24/15 08:10	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/24/15 08:10	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/24/15 08:10	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/24/15 08:10	1
1,1-Dichloroethane	ND		1.0	ug/L			07/24/15 08:10	1
1,2-Dichloroethane	ND		0.50	ug/L			07/24/15 08:10	1
1,1-Dichloroethene	ND		1.0	ug/L			07/24/15 08:10	1
1,2-Dichloropropane	ND		1.0	ug/L			07/24/15 08:10	1
1,3-Dichloropropane	ND		1.0	ug/L			07/24/15 08:10	1
2,2-Dichloropropane	ND		1.0	ug/L			07/24/15 08:10	1
1,1-Dichloropropene	ND		1.0	ug/L			07/24/15 08:10	1
Ethylbenzene	ND		1.0	ug/L			07/24/15 08:10	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/24/15 08:10	1
Hexachlorobutadiene	ND		2.0	ug/L			07/24/15 08:10	1
2-Hexanone	ND		10	ug/L			07/24/15 08:10	1
Isopropylbenzene	ND		1.0	ug/L			07/24/15 08:10	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/24/15 08:10	1
Methylene Chloride	ND		5.0	ug/L			07/24/15 08:10	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/24/15 08:10	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/24/15 08:10	1
m,p-Xylene	ND		1.0	ug/L			07/24/15 08:10	1
Naphthalene	ND		5.0	ug/L			07/24/15 08:10	1
n-Butylbenzene	ND		2.0	ug/L			07/24/15 08:10	1
N-Propylbenzene	ND		2.0	ug/L			07/24/15 08:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-268951/4
Matrix: Water
Analysis Batch: 268951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			07/24/15 08:10	1
p-Isopropyltoluene	ND		2.0		ug/L			07/24/15 08:10	1
sec-Butylbenzene	ND		2.0		ug/L			07/24/15 08:10	1
Styrene	ND		1.0		ug/L			07/24/15 08:10	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/24/15 08:10	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/24/15 08:10	1
tert-Butylbenzene	ND		2.0		ug/L			07/24/15 08:10	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/24/15 08:10	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/24/15 08:10	1
Tetrachloroethene	ND		1.0		ug/L			07/24/15 08:10	1
Toluene	ND		1.0		ug/L			07/24/15 08:10	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/24/15 08:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/24/15 08:10	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/24/15 08:10	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/24/15 08:10	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/24/15 08:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/24/15 08:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/24/15 08:10	1
Trichloroethene	ND		1.0		ug/L			07/24/15 08:10	1
Trichlorofluoromethane	ND		1.0		ug/L			07/24/15 08:10	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/24/15 08:10	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/24/15 08:10	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/24/15 08:10	1
Vinyl chloride	ND		0.50		ug/L			07/24/15 08:10	1
Xylenes, Total	ND		2.0		ug/L			07/24/15 08:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/24/15 08:10*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*07/24/15 08:10*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/24/15 08:10*	*1*

Lab Sample ID: LCS 440-268951/5
Matrix: Water
Analysis Batch: 268951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	21.6		ug/L		86	10 - 150
Benzene	25.0	26.1		ug/L		105	68 - 130
Bromobenzene	25.0	24.9		ug/L		100	70 - 130
Bromochloromethane	25.0	25.2		ug/L		101	70 - 130
Bromodichloromethane	25.0	24.8		ug/L		99	70 - 132
Bromoform	25.0	25.8		ug/L		103	60 - 148
Bromomethane	25.0	26.7		ug/L		107	64 - 139
2-Butanone (MEK)	25.0	22.9		ug/L		92	44 - 150
Carbon disulfide	25.0	24.9		ug/L		100	52 - 136
Carbon tetrachloride	25.0	26.4		ug/L		106	60 - 150
Chlorobenzene	25.0	25.0		ug/L		100	70 - 130
Chloroethane	25.0	25.2		ug/L		101	64 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-268951/5
Matrix: Water
Analysis Batch: 268951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	25.4		ug/L		102	70 - 130
Chloromethane	25.0	26.1		ug/L		104	47 - 140
2-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130
4-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 133
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 133
Dibromochloromethane	25.0	24.2		ug/L		97	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	22.3		ug/L		89	52 - 140
1,2-Dibromoethane (EDB)	25.0	25.8		ug/L		103	70 - 130
Dibromomethane	25.0	25.3		ug/L		101	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
Dichlorodifluoromethane	25.0	25.1		ug/L		100	29 - 150
1,1-Dichloroethane	25.0	25.5		ug/L		102	64 - 130
1,2-Dichloroethane	25.0	24.9		ug/L		100	57 - 138
1,1-Dichloroethene	25.0	25.0		ug/L		100	70 - 130
1,2-Dichloropropane	25.0	26.6		ug/L		106	67 - 130
1,3-Dichloropropane	25.0	24.6		ug/L		99	70 - 130
2,2-Dichloropropane	25.0	26.0		ug/L		104	68 - 141
1,1-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
Ethylbenzene	25.0	26.1		ug/L		104	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	28.0		ug/L		112	60 - 136
Hexachlorobutadiene	25.0	24.2		ug/L		97	10 - 150
2-Hexanone	25.0	22.2		ug/L		89	10 - 150
Isopropylbenzene	25.0	27.1		ug/L		109	70 - 136
Isopropyl Ether (DIPE)	25.0	28.3		ug/L		113	58 - 139
Methylene Chloride	25.0	26.1		ug/L		104	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	23.4		ug/L		94	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	25.1		ug/L		101	63 - 131
m,p-Xylene	25.0	26.5		ug/L		106	70 - 130
Naphthalene	25.0	23.4		ug/L		94	60 - 140
n-Butylbenzene	25.0	26.8		ug/L		107	65 - 150
N-Propylbenzene	25.0	26.4		ug/L		106	67 - 139
o-Xylene	25.0	26.6		ug/L		106	70 - 130
p-Isopropyltoluene	25.0	26.1		ug/L		104	70 - 132
sec-Butylbenzene	25.0	26.5		ug/L		106	70 - 138
Styrene	25.0	27.4		ug/L		110	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	26.6		ug/L		106	57 - 139
tert-Butyl alcohol (TBA)	250	253		ug/L		101	70 - 130
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.1		ug/L		100	60 - 141
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	63 - 130
Tetrachloroethene	25.0	24.6		ug/L		99	70 - 130
Toluene	25.0	26.4		ug/L		106	70 - 130
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 132
1,2,3-Trichlorobenzene	25.0	24.0		ug/L		96	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-268951/5
Matrix: Water
Analysis Batch: 268951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	60 - 140
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
Trichloroethene	25.0	26.4		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	25.9		ug/L		103	60 - 150
1,2,3-Trichloropropane	25.0	23.7		ug/L		95	63 - 130
1,2,4-Trimethylbenzene	25.0	26.9		ug/L		107	70 - 135
1,3,5-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 136
Vinyl chloride	25.0	27.1		ug/L		108	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: 440-115835-3 MS
Matrix: Water
Analysis Batch: 268951

Client Sample ID: PW-8D-GW-20072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	20.8		ug/L		83	10 - 150
Benzene	ND		25.0	25.9		ug/L		103	66 - 130
Bromobenzene	ND		25.0	25.2		ug/L		101	70 - 130
Bromochloromethane	ND		25.0	25.5		ug/L		102	70 - 130
Bromodichloromethane	ND		25.0	25.4		ug/L		102	70 - 138
Bromoform	ND		25.0	25.7		ug/L		103	59 - 150
Bromomethane	ND		25.0	26.7		ug/L		107	62 - 131
2-Butanone (MEK)	ND		25.0	23.4		ug/L		93	48 - 140
Carbon disulfide	ND		25.0	25.6		ug/L		102	49 - 140
Carbon tetrachloride	ND		25.0	27.0		ug/L		108	60 - 150
Chlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
Chloroethane	ND		25.0	24.9		ug/L		100	68 - 130
Chloroform	ND		25.0	25.5		ug/L		102	70 - 130
Chloromethane	ND		25.0	26.5		ug/L		106	39 - 144
2-Chlorotoluene	ND		25.0	27.1		ug/L		108	70 - 130
4-Chlorotoluene	ND		25.0	27.4		ug/L		109	70 - 130
cis-1,2-Dichloroethene	ND		25.0	25.6		ug/L		103	70 - 130
cis-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	70 - 133
Dibromochloromethane	ND		25.0	23.8		ug/L		95	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	24.1		ug/L		96	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	25.2		ug/L		101	70 - 131
Dibromomethane	ND		25.0	24.5		ug/L		98	70 - 130
1,2-Dichlorobenzene	ND		25.0	25.5		ug/L		102	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
1,4-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
Dichlorodifluoromethane	ND		25.0	25.6		ug/L		102	25 - 142
1,1-Dichloroethane	ND		25.0	25.4		ug/L		102	65 - 130
1,2-Dichloroethane	ND		25.0	24.8		ug/L		99	56 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115835-3 MS
Matrix: Water
Analysis Batch: 268951

Client Sample ID: PW-8D-GW-20072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		25.0	26.2		ug/L		105	70 - 130
1,2-Dichloropropane	ND		25.0	26.6		ug/L		106	69 - 130
1,3-Dichloropropane	ND		25.0	24.3		ug/L		97	70 - 130
2,2-Dichloropropane	ND		25.0	26.7		ug/L		107	69 - 138
1,1-Dichloropropene	ND		25.0	25.7		ug/L		103	64 - 130
Ethylbenzene	ND		25.0	26.5		ug/L		106	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	27.2		ug/L		109	70 - 130
Hexachlorobutadiene	ND		25.0	25.1		ug/L		101	10 - 150
2-Hexanone	ND		25.0	21.4		ug/L		86	10 - 150
Isopropylbenzene	ND		25.0	28.0		ug/L		112	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	28.4		ug/L		113	64 - 138
Methylene Chloride	ND		25.0	25.2		ug/L		101	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.4		ug/L		94	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.9		ug/L		100	70 - 130
m,p-Xylene	ND		25.0	26.7		ug/L		107	70 - 133
Naphthalene	ND		25.0	24.0		ug/L		96	60 - 140
n-Butylbenzene	ND		25.0	28.6		ug/L		115	61 - 149
N-Propylbenzene	ND		25.0	27.5		ug/L		110	66 - 135
o-Xylene	ND		25.0	27.4		ug/L		110	70 - 133
p-Isopropyltoluene	ND		25.0	27.5		ug/L		110	70 - 130
sec-Butylbenzene	ND		25.0	28.1		ug/L		112	67 - 134
Styrene	ND		25.0	27.6		ug/L		110	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	25.5		ug/L		102	68 - 133
tert-Butyl alcohol (TBA)	ND		250	267		ug/L		107	70 - 130
tert-Butylbenzene	ND		25.0	27.3		ug/L		109	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	26.0		ug/L		104	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	24.1		ug/L		97	63 - 130
Tetrachloroethene	ND		25.0	25.3		ug/L		101	70 - 137
Toluene	ND		25.0	26.6		ug/L		106	70 - 130
trans-1,2-Dichloroethene	ND		25.0	24.9		ug/L		100	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.9		ug/L		104	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.9		ug/L		104	60 - 140
1,1,1-Trichloroethane	ND		25.0	25.7		ug/L		103	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.1		ug/L		101	70 - 130
Trichloroethene	ND		25.0	26.4		ug/L		106	70 - 130
Trichlorofluoromethane	ND		25.0	27.9		ug/L		111	60 - 150
1,2,3-Trichloropropane	ND		25.0	24.9		ug/L		100	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	27.7		ug/L		111	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.6		ug/L		111	70 - 130
Vinyl chloride	ND		25.0	28.0		ug/L		112	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*106*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115835-3 MSD
Matrix: Water
Analysis Batch: 268951

Client Sample ID: PW-8D-GW-20072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	20.3		ug/L		81	10 - 150	2	35
Benzene	ND		25.0	26.3		ug/L		105	66 - 130	2	20
Bromobenzene	ND		25.0	26.2		ug/L		105	70 - 130	4	20
Bromochloromethane	ND		25.0	24.7		ug/L		99	70 - 130	3	25
Bromodichloromethane	ND		25.0	25.3		ug/L		101	70 - 138	0	20
Bromoform	ND		25.0	25.6		ug/L		102	59 - 150	0	25
Bromomethane	ND		25.0	26.9		ug/L		108	62 - 131	1	25
2-Butanone (MEK)	ND		25.0	22.4		ug/L		89	48 - 140	4	40
Carbon disulfide	ND		25.0	25.9		ug/L		104	49 - 140	1	20
Carbon tetrachloride	ND		25.0	27.4		ug/L		110	60 - 150	1	25
Chlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130	0	20
Chloroethane	ND		25.0	25.4		ug/L		102	68 - 130	2	25
Chloroform	ND		25.0	26.0		ug/L		104	70 - 130	2	20
Chloromethane	ND		25.0	27.5		ug/L		110	39 - 144	4	25
2-Chlorotoluene	ND		25.0	27.8		ug/L		111	70 - 130	3	20
4-Chlorotoluene	ND		25.0	27.7		ug/L		111	70 - 130	1	20
cis-1,2-Dichloroethene	ND		25.0	25.7		ug/L		103	70 - 130	0	20
cis-1,3-Dichloropropene	ND		25.0	26.4		ug/L		106	70 - 133	3	20
Dibromochloromethane	ND		25.0	24.2		ug/L		97	70 - 148	2	25
1,2-Dibromo-3-Chloropropane	ND		25.0	23.6		ug/L		94	48 - 140	2	30
1,2-Dibromoethane (EDB)	ND		25.0	25.6		ug/L		102	70 - 131	2	25
Dibromomethane	ND		25.0	25.9		ug/L		104	70 - 130	6	25
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	26.6		ug/L		107	70 - 130	2	20
1,4-Dichlorobenzene	ND		25.0	26.8		ug/L		107	70 - 130	3	20
Dichlorodifluoromethane	ND		25.0	27.5		ug/L		110	25 - 142	7	30
1,1-Dichloroethane	ND		25.0	25.8		ug/L		103	65 - 130	1	20
1,2-Dichloroethane	ND		25.0	25.3		ug/L		101	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	25.7		ug/L		103	70 - 130	2	20
1,2-Dichloropropane	ND		25.0	27.1		ug/L		108	69 - 130	2	20
1,3-Dichloropropane	ND		25.0	25.0		ug/L		100	70 - 130	3	25
2,2-Dichloropropane	ND		25.0	27.1		ug/L		108	69 - 138	1	25
1,1-Dichloropropene	ND		25.0	26.8		ug/L		107	64 - 130	4	20
Ethylbenzene	ND		25.0	27.0		ug/L		108	70 - 130	2	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.7		ug/L		107	70 - 130	2	25
Hexachlorobutadiene	ND		25.0	25.8		ug/L		103	10 - 150	3	20
2-Hexanone	ND		25.0	22.4		ug/L		90	10 - 150	4	35
Isopropylbenzene	ND		25.0	27.9		ug/L		111	70 - 132	0	20
Isopropyl Ether (DIPE)	ND		25.0	28.4		ug/L		114	64 - 138	0	25
Methylene Chloride	ND		25.0	25.6		ug/L		102	52 - 130	2	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.8		ug/L		95	52 - 150	2	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.0		ug/L		100	70 - 130	0	25
m,p-Xylene	ND		25.0	27.1		ug/L		108	70 - 133	1	25
Naphthalene	ND		25.0	24.6		ug/L		98	60 - 140	3	30
n-Butylbenzene	ND		25.0	29.2		ug/L		117	61 - 149	2	20
N-Propylbenzene	ND		25.0	28.3		ug/L		113	66 - 135	3	20
o-Xylene	ND		25.0	26.9		ug/L		108	70 - 133	2	20
p-Isopropyltoluene	ND		25.0	28.5		ug/L		114	70 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-115835-3 MSD — **Client Sample ID: PW-8D-GW-20072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268951

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	28.5		ug/L		114	67 - 134	1	20
Styrene	ND		25.0	27.1		ug/L		109	29 - 150	2	35
Tert-amyl-methyl ether (TAME)	ND		25.0	25.5		ug/L		102	68 - 133	0	30
tert-Butyl alcohol (TBA)	ND		250	254		ug/L		102	70 - 130	5	25
tert-Butylbenzene	ND		25.0	28.0		ug/L		112	70 - 130	2	20
1,1,1,2-Tetrachloroethane	ND		25.0	25.8		ug/L		103	60 - 149	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.0		ug/L		96	63 - 130	0	30
Tetrachloroethene	ND		25.0	25.5		ug/L		102	70 - 137	1	20
Toluene	ND		25.0	26.9		ug/L		108	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	25.9		ug/L		103	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	25.6		ug/L		103	70 - 138	1	25
1,2,3-Trichlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140	5	20
1,2,4-Trichlorobenzene	ND		25.0	26.4		ug/L		106	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	25.7		ug/L		103	70 - 130	0	20
1,1,2-Trichloroethane	ND		25.0	25.1		ug/L		100	70 - 130	0	25
Trichloroethene	ND		25.0	26.7		ug/L		107	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	27.6		ug/L		110	60 - 150	1	25
1,2,3-Trichloropropane	ND		25.0	25.2		ug/L		101	60 - 130	1	30
1,2,4-Trimethylbenzene	ND		25.0	28.6		ug/L		114	70 - 130	3	25
1,3,5-Trimethylbenzene	ND		25.0	27.9		ug/L		112	70 - 130	1	20
Vinyl chloride	ND		25.0	28.8		ug/L		115	50 - 137	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*106*		*80 - 128*

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 440-268980/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268980

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/24/15 08:29	1

Lab Sample ID: LCS 440-268980/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 268980

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	27.4		ug/L		110	85 - 115		

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 440-268980/5
Matrix: Water
Analysis Batch: 268980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			4.00	4.36		ug/L		109	75 - 125		

Lab Sample ID: 440-115677-D-4 MS
Matrix: Water
Analysis Batch: 268980

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	40	F1	25.0	75.8	F1	ug/L		143	80 - 120		

Lab Sample ID: 440-115677-D-4 MSD
Matrix: Water
Analysis Batch: 268980

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	40	F1	25.0	75.6	F1	ug/L		142	80 - 120	0	20

QC Association Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

GC/MS VOA

Analysis Batch: 268951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115835-1	20072015TB-1	Total/NA	Water	8260B	
440-115835-2	20072015EB-1	Total/NA	Water	8260B	
440-115835-3	PW-8D-GW-20072015	Total/NA	Water	8260B	
440-115835-3 MS	PW-8D-GW-20072015	Total/NA	Water	8260B	
440-115835-3 MSD	PW-8D-GW-20072015	Total/NA	Water	8260B	
440-115835-4	PW-8C-GW-20072015	Total/NA	Water	8260B	
440-115835-5	PW-8B-GW-20072015	Total/NA	Water	8260B	
440-115835-6	PW-8A-GW-20072015	Total/NA	Water	8260B	
440-115835-7	20072015D-1	Total/NA	Water	8260B	
LCS 440-268951/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-268951/4	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 268980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-115677-D-4 MS	Matrix Spike	Total/NA	Water	314.0 LL	
440-115677-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
440-115835-2	20072015EB-1	Total/NA	Water	314.0 LL	
440-115835-3	PW-8D-GW-20072015	Total/NA	Water	314.0 LL	
440-115835-4	PW-8C-GW-20072015	Total/NA	Water	314.0 LL	
440-115835-5	PW-8B-GW-20072015	Total/NA	Water	314.0 LL	
440-115835-6	PW-8A-GW-20072015	Total/NA	Water	314.0 LL	
440-115835-7	20072015D-1	Total/NA	Water	314.0 LL	
LCS 440-268980/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-268980/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-268980/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-115835-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16

* Certification renewal pending - certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
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TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 20 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Thanh Hoang; Joe Gatel
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
20072015TB-1	7/20/15	0700	G	W	3	N	N	X		
20072015EB-1	7/20/15	0925	G	W	5	N	N	X	X	
PW-8D-GW-20072015	7/20/15	0835	G	W	4	N	N	X	X	
PW-8C-GW-20072015	7/20/15	0905	G	W	5	N	N	X	X	
PW-8B-GW-20072015	7/20/15	0945	G	W	5	N	N	X	X	
PW-8A-GW-20072015	7/20/15	1020	G	W	5	N	N	X	X	
20072015D-1	7/20/15	—	G	W	5	N	N	X	X	
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								1,2	1	

440-115835 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	07/20/15 1643	[signature] George Gerwin	VTC DCS	7/21/15 10:40
[signature] George Gerwin	DCS	7/21/15 12:34	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Oinelous	Company: TAI	Date/Time: 7/21/15 12:34

30°C/3.4°C IR-75

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-115835-1

Login Number: 115835
List Number: 1
Creator: Escalante, Maria I

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-116331-1
Client Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

For:
AECOM, Inc.
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Ms. Rebecca Mora

Authorized for release by:
8/6/2015 10:05:18 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-116331-1	27072015TB-1	Water	07/27/15 07:00	07/28/15 12:26
440-116331-2	27072015FB-1	Water	07/27/15 14:15	07/28/15 12:26
440-116331-3	27072015D-1	Water	07/27/15 00:01	07/28/15 12:26
440-116331-4	EMW-04A-450-GW-27072015	Water	07/27/15 14:00	07/28/15 12:26
440-116331-5	EMW-04B-605-GW-27072015	Water	07/27/15 13:30	07/28/15 12:26
440-116331-6	EMW-04C-690-GW-27072015	Water	07/27/15 13:00	07/28/15 12:26

Case Narrative

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Job ID: 440-116331-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-116331-1

Comments
The sample IDs for lab numbers 440-116331-4, -5 and -6 were changed per client's 7/30/15 email request.

Receipt
The samples were received on 7/28/2015 12:26 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6º C.

GC/MS VOA
Method(s) 8260B: Sample 27072015FB-1 (440-116331-2) contained 2-Butanone (MEK) above the reporting limit (RL). The sample was re-analyzed with concurring results. The re-analysis result has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 314.0 LL: Due to the relatively high concentration of perchlorate in the batch QC source sample, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 440-270843 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Client Sample ID: 27072015TB-1

Date Collected: 07/27/15 07:00
Date Received: 07/28/15 12:26

Lab Sample ID: 440-116331-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/29/15 23:32	1
Benzene	ND		0.50		ug/L			07/29/15 23:32	1
Bromobenzene	ND		1.0		ug/L			07/29/15 23:32	1
Bromochloromethane	ND		1.0		ug/L			07/29/15 23:32	1
Bromodichloromethane	ND		1.0		ug/L			07/29/15 23:32	1
Bromoform	ND		1.0		ug/L			07/29/15 23:32	1
Bromomethane	ND		2.0		ug/L			07/29/15 23:32	1
1,3-Butadiene	ND		1.0		ug/L			07/29/15 23:32	1
2-Butanone (MEK)	ND		10		ug/L			07/29/15 23:32	1
Carbon disulfide	ND		2.0		ug/L			07/29/15 23:32	1
Carbon tetrachloride	ND		1.0		ug/L			07/29/15 23:32	1
Chlorobenzene	ND		1.0		ug/L			07/29/15 23:32	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/29/15 23:32	1
Chloroethane	ND		1.0		ug/L			07/29/15 23:32	1
Chloroform	ND		1.0		ug/L			07/29/15 23:32	1
Chloromethane	ND		1.0		ug/L			07/29/15 23:32	1
2-Chlorotoluene	ND		2.0		ug/L			07/29/15 23:32	1
4-Chlorotoluene	ND		2.0		ug/L			07/29/15 23:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/29/15 23:32	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/29/15 23:32	1
Dibromochloromethane	ND		1.0		ug/L			07/29/15 23:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/29/15 23:32	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/29/15 23:32	1
Dibromomethane	ND		1.0		ug/L			07/29/15 23:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/29/15 23:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/29/15 23:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/29/15 23:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/29/15 23:32	1
1,1-Dichloroethane	ND		1.0		ug/L			07/29/15 23:32	1
1,2-Dichloroethane	ND		0.50		ug/L			07/29/15 23:32	1
1,1-Dichloroethene	ND		1.0		ug/L			07/29/15 23:32	1
1,2-Dichloropropane	ND		1.0		ug/L			07/29/15 23:32	1
1,3-Dichloropropane	ND		1.0		ug/L			07/29/15 23:32	1
2,2-Dichloropropane	ND		1.0		ug/L			07/29/15 23:32	1
1,1-Dichloropropene	ND		1.0		ug/L			07/29/15 23:32	1
Ethylbenzene	ND		1.0		ug/L			07/29/15 23:32	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/29/15 23:32	1
Hexachlorobutadiene	ND		2.0		ug/L			07/29/15 23:32	1
2-Hexanone	ND		10		ug/L			07/29/15 23:32	1
Isopropylbenzene	ND		1.0		ug/L			07/29/15 23:32	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/29/15 23:32	1
Methylene Chloride	ND		5.0		ug/L			07/29/15 23:32	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/29/15 23:32	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/29/15 23:32	1
m,p-Xylene	ND		1.0		ug/L			07/29/15 23:32	1
Naphthalene	ND		5.0		ug/L			07/29/15 23:32	1
n-Butylbenzene	ND		2.0		ug/L			07/29/15 23:32	1
N-Propylbenzene	ND		2.0		ug/L			07/29/15 23:32	1
o-Xylene	ND		1.0		ug/L			07/29/15 23:32	1

Client Sample ID: 27072015TB-1

Lab Sample ID: 440-116331-1
Date Collected: 07/27/15 07:00
Matrix: Water
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/29/15 23:32	1
sec-Butylbenzene	ND		2.0	ug/L			07/29/15 23:32	1
Styrene	ND		1.0	ug/L			07/29/15 23:32	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/29/15 23:32	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/29/15 23:32	1
tert-Butylbenzene	ND		2.0	ug/L			07/29/15 23:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/29/15 23:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/29/15 23:32	1
Tetrachloroethene	ND		1.0	ug/L			07/29/15 23:32	1
Toluene	ND		1.0	ug/L			07/29/15 23:32	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/29/15 23:32	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/29/15 23:32	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/29/15 23:32	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/29/15 23:32	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/29/15 23:32	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/29/15 23:32	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/29/15 23:32	1
Trichloroethene	ND		1.0	ug/L			07/29/15 23:32	1
Trichlorofluoromethane	ND		1.0	ug/L			07/29/15 23:32	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/29/15 23:32	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/29/15 23:32	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/29/15 23:32	1
Vinyl chloride	ND		0.50	ug/L			07/29/15 23:32	1
Xylenes, Total	ND		2.0	ug/L			07/29/15 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/29/15 23:32*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*07/29/15 23:32*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/29/15 23:32*	*1*

Client Sample ID: 27072015FB-1

Lab Sample ID: 440-116331-2
Date Collected: 07/27/15 14:15
Matrix: Water
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/30/15 00:02	1
Benzene	ND		0.50	ug/L			07/30/15 00:02	1
Bromobenzene	ND		1.0	ug/L			07/30/15 00:02	1
Bromochloromethane	ND		1.0	ug/L			07/30/15 00:02	1
Bromodichloromethane	ND		1.0	ug/L			07/30/15 00:02	1
Bromoform	ND		1.0	ug/L			07/30/15 00:02	1
Bromomethane	ND		2.0	ug/L			07/30/15 00:02	1
1,3-Butadiene	ND		1.0	ug/L			07/30/15 00:02	1
Carbon disulfide	ND		2.0	ug/L			07/30/15 00:02	1
Carbon tetrachloride	ND		1.0	ug/L			07/30/15 00:02	1
Chlorobenzene	ND		1.0	ug/L			07/30/15 00:02	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/30/15 00:02	1
Chloroethane	ND		1.0	ug/L			07/30/15 00:02	1
Chloroform	ND		1.0	ug/L			07/30/15 00:02	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Client Sample ID: 27072015FB-1

Date Collected: 07/27/15 14:15
Date Received: 07/28/15 12:26

Lab Sample ID: 440-116331-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0		ug/L			07/30/15 00:02	1
2-Chlorotoluene	ND		2.0		ug/L			07/30/15 00:02	1
4-Chlorotoluene	ND		2.0		ug/L			07/30/15 00:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/30/15 00:02	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/30/15 00:02	1
Dibromochloromethane	ND		1.0		ug/L			07/30/15 00:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/30/15 00:02	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/30/15 00:02	1
Dibromomethane	ND		1.0		ug/L			07/30/15 00:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/30/15 00:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/30/15 00:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/30/15 00:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/30/15 00:02	1
1,1-Dichloroethane	ND		1.0		ug/L			07/30/15 00:02	1
1,2-Dichloroethane	ND		0.50		ug/L			07/30/15 00:02	1
1,1-Dichloroethene	ND		1.0		ug/L			07/30/15 00:02	1
1,2-Dichloropropane	ND		1.0		ug/L			07/30/15 00:02	1
1,3-Dichloropropane	ND		1.0		ug/L			07/30/15 00:02	1
2,2-Dichloropropane	ND		1.0		ug/L			07/30/15 00:02	1
1,1-Dichloropropene	ND		1.0		ug/L			07/30/15 00:02	1
Ethylbenzene	ND		1.0		ug/L			07/30/15 00:02	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/30/15 00:02	1
Hexachlorobutadiene	ND		2.0		ug/L			07/30/15 00:02	1
2-Hexanone	ND		10		ug/L			07/30/15 00:02	1
Isopropylbenzene	ND		1.0		ug/L			07/30/15 00:02	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/30/15 00:02	1
Methylene Chloride	ND		5.0		ug/L			07/30/15 00:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/30/15 00:02	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/30/15 00:02	1
m,p-Xylene	ND		1.0		ug/L			07/30/15 00:02	1
Naphthalene	ND		5.0		ug/L			07/30/15 00:02	1
n-Butylbenzene	ND		2.0		ug/L			07/30/15 00:02	1
N-Propylbenzene	ND		2.0		ug/L			07/30/15 00:02	1
o-Xylene	ND		1.0		ug/L			07/30/15 00:02	1
p-Isopropyltoluene	ND		2.0		ug/L			07/30/15 00:02	1
sec-Butylbenzene	ND		2.0		ug/L			07/30/15 00:02	1
Styrene	ND		1.0		ug/L			07/30/15 00:02	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/30/15 00:02	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/30/15 00:02	1
tert-Butylbenzene	ND		2.0		ug/L			07/30/15 00:02	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/30/15 00:02	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/30/15 00:02	1
Tetrachloroethene	ND		1.0		ug/L			07/30/15 00:02	1
Toluene	ND		1.0		ug/L			07/30/15 00:02	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/30/15 00:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/30/15 00:02	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/30/15 00:02	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/30/15 00:02	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/30/15 00:02	1

Client Sample ID: 27072015FB-1 — Lab Sample ID: 440-116331-2

Date Collected: 07/27/15 14:15 — **Matrix: Water**
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	ug/L			07/30/15 00:02	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/30/15 00:02	1
Trichloroethene	ND		1.0	ug/L			07/30/15 00:02	1
Trichlorofluoromethane	ND		1.0	ug/L			07/30/15 00:02	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/30/15 00:02	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/30/15 00:02	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/30/15 00:02	1
Vinyl chloride	ND		0.50	ug/L			07/30/15 00:02	1
Xylenes, Total	ND		2.0	ug/L			07/30/15 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/30/15 00:02*	*1*
Dibromofluoromethane (Surr)	*117*		*76 - 132*		*07/30/15 00:02*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/30/15 00:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**15**		10	ug/L			07/31/15 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/31/15 01:15*	*1*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*07/31/15 01:15*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/31/15 01:15*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/31/15 13:39	1

Client Sample ID: 27072015D-1 — Lab Sample ID: 440-116331-3

Date Collected: 07/27/15 00:01 — **Matrix: Water**
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/29/15 22:03	1
Benzene	ND		0.50	ug/L			07/29/15 22:03	1
Bromobenzene	ND		1.0	ug/L			07/29/15 22:03	1
Bromochloromethane	ND		1.0	ug/L			07/29/15 22:03	1
Bromodichloromethane	ND		1.0	ug/L			07/29/15 22:03	1
Bromoform	ND		1.0	ug/L			07/29/15 22:03	1
Bromomethane	ND		2.0	ug/L			07/29/15 22:03	1
1,3-Butadiene	ND		1.0	ug/L			07/29/15 22:03	1
2-Butanone (MEK)	ND		10	ug/L			07/29/15 22:03	1
Carbon disulfide	ND		2.0	ug/L			07/29/15 22:03	1
Carbon tetrachloride	ND		1.0	ug/L			07/29/15 22:03	1
Chlorobenzene	ND		1.0	ug/L			07/29/15 22:03	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/29/15 22:03	1
Chloroethane	ND		1.0	ug/L			07/29/15 22:03	1
Chloroform	ND		1.0	ug/L			07/29/15 22:03	1
Chloromethane	ND		1.0	ug/L			07/29/15 22:03	1
2-Chlorotoluene	ND		2.0	ug/L			07/29/15 22:03	1

Client Sample ID: 27072015D-1

Lab Sample ID: 440-116331-3

Date Collected: 07/27/15 00:01

Matrix: Water

Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		2.0		ug/L			07/29/15 22:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/29/15 22:03	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/29/15 22:03	1
Dibromochloromethane	ND		1.0		ug/L			07/29/15 22:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/29/15 22:03	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/29/15 22:03	1
Dibromomethane	ND		1.0		ug/L			07/29/15 22:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/29/15 22:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/29/15 22:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/29/15 22:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/29/15 22:03	1
1,1-Dichloroethane	ND		1.0		ug/L			07/29/15 22:03	1
1,2-Dichloroethane	ND		0.50		ug/L			07/29/15 22:03	1
1,1-Dichloroethene	ND		1.0		ug/L			07/29/15 22:03	1
1,2-Dichloropropane	ND		1.0		ug/L			07/29/15 22:03	1
1,3-Dichloropropane	ND		1.0		ug/L			07/29/15 22:03	1
2,2-Dichloropropane	ND		1.0		ug/L			07/29/15 22:03	1
1,1-Dichloropropene	ND		1.0		ug/L			07/29/15 22:03	1
Ethylbenzene	ND		1.0		ug/L			07/29/15 22:03	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/29/15 22:03	1
Hexachlorobutadiene	ND		2.0		ug/L			07/29/15 22:03	1
2-Hexanone	ND		10		ug/L			07/29/15 22:03	1
Isopropylbenzene	ND		1.0		ug/L			07/29/15 22:03	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/29/15 22:03	1
Methylene Chloride	ND		5.0		ug/L			07/29/15 22:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/29/15 22:03	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/29/15 22:03	1
m,p-Xylene	ND		1.0		ug/L			07/29/15 22:03	1
Naphthalene	ND		5.0		ug/L			07/29/15 22:03	1
n-Butylbenzene	ND		2.0		ug/L			07/29/15 22:03	1
N-Propylbenzene	ND		2.0		ug/L			07/29/15 22:03	1
o-Xylene	ND		1.0		ug/L			07/29/15 22:03	1
p-Isopropyltoluene	ND		2.0		ug/L			07/29/15 22:03	1
sec-Butylbenzene	ND		2.0		ug/L			07/29/15 22:03	1
Styrene	ND		1.0		ug/L			07/29/15 22:03	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/29/15 22:03	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/29/15 22:03	1
tert-Butylbenzene	ND		2.0		ug/L			07/29/15 22:03	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/29/15 22:03	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/29/15 22:03	1
Tetrachloroethene	ND		1.0		ug/L			07/29/15 22:03	1
Toluene	ND		1.0		ug/L			07/29/15 22:03	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/29/15 22:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/29/15 22:03	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/29/15 22:03	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/29/15 22:03	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/29/15 22:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/29/15 22:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/29/15 22:03	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Client Sample ID: 27072015D-1

Lab Sample ID: 440-116331-3
Date Collected: 07/27/15 00:01
Matrix: Water
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**25**		1.0	ug/L			07/29/15 22:03	1
Trichlorofluoromethane	ND		1.0	ug/L			07/29/15 22:03	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/29/15 22:03	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/29/15 22:03	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/29/15 22:03	1
Vinyl chloride	ND		0.50	ug/L			07/29/15 22:03	1
Xylenes, Total	ND		2.0	ug/L			07/29/15 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/29/15 22:03*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*07/29/15 22:03*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/29/15 22:03*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**160**		30	ug/L			08/04/15 10:41	10

Client Sample ID: EMW-04A-450-GW-27072015

Lab Sample ID: 440-116331-4
Date Collected: 07/27/15 14:00
Matrix: Water
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/29/15 22:32	1
Benzene	ND		0.50	ug/L			07/29/15 22:32	1
Bromobenzene	ND		1.0	ug/L			07/29/15 22:32	1
Bromochloromethane	ND		1.0	ug/L			07/29/15 22:32	1
Bromodichloromethane	ND		1.0	ug/L			07/29/15 22:32	1
Bromoform	ND		1.0	ug/L			07/29/15 22:32	1
Bromomethane	ND		2.0	ug/L			07/29/15 22:32	1
1,3-Butadiene	ND		1.0	ug/L			07/29/15 22:32	1
2-Butanone (MEK)	ND		10	ug/L			07/29/15 22:32	1
Carbon disulfide	ND		2.0	ug/L			07/29/15 22:32	1
Carbon tetrachloride	ND		1.0	ug/L			07/29/15 22:32	1
Chlorobenzene	ND		1.0	ug/L			07/29/15 22:32	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/29/15 22:32	1
Chloroethane	ND		1.0	ug/L			07/29/15 22:32	1
Chloroform	ND		1.0	ug/L			07/29/15 22:32	1
Chloromethane	ND		1.0	ug/L			07/29/15 22:32	1
2-Chlorotoluene	ND		2.0	ug/L			07/29/15 22:32	1
4-Chlorotoluene	ND		2.0	ug/L			07/29/15 22:32	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/29/15 22:32	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/29/15 22:32	1
Dibromochloromethane	ND		1.0	ug/L			07/29/15 22:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/29/15 22:32	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/29/15 22:32	1
Dibromomethane	ND		1.0	ug/L			07/29/15 22:32	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/29/15 22:32	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/29/15 22:32	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/29/15 22:32	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Client Sample ID: EMW-04A-450-GW-27072015

Lab Sample ID: 440-116331-4
Date Collected: 07/27/15 14:00
Matrix: Water
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	ug/L			07/29/15 22:32	1
1,1-Dichloroethane	ND		1.0	ug/L			07/29/15 22:32	1
1,2-Dichloroethane	ND		0.50	ug/L			07/29/15 22:32	1
1,1-Dichloroethene	ND		1.0	ug/L			07/29/15 22:32	1
1,2-Dichloropropane	ND		1.0	ug/L			07/29/15 22:32	1
1,3-Dichloropropane	ND		1.0	ug/L			07/29/15 22:32	1
2,2-Dichloropropane	ND		1.0	ug/L			07/29/15 22:32	1
1,1-Dichloropropene	ND		1.0	ug/L			07/29/15 22:32	1
Ethylbenzene	ND		1.0	ug/L			07/29/15 22:32	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/29/15 22:32	1
Hexachlorobutadiene	ND		2.0	ug/L			07/29/15 22:32	1
2-Hexanone	ND		10	ug/L			07/29/15 22:32	1
Isopropylbenzene	ND		1.0	ug/L			07/29/15 22:32	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/29/15 22:32	1
Methylene Chloride	ND		5.0	ug/L			07/29/15 22:32	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/29/15 22:32	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/29/15 22:32	1
m,p-Xylene	ND		1.0	ug/L			07/29/15 22:32	1
Naphthalene	ND		5.0	ug/L			07/29/15 22:32	1
n-Butylbenzene	ND		2.0	ug/L			07/29/15 22:32	1
N-Propylbenzene	ND		2.0	ug/L			07/29/15 22:32	1
o-Xylene	ND		1.0	ug/L			07/29/15 22:32	1
p-Isopropyltoluene	ND		2.0	ug/L			07/29/15 22:32	1
sec-Butylbenzene	ND		2.0	ug/L			07/29/15 22:32	1
Styrene	ND		1.0	ug/L			07/29/15 22:32	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/29/15 22:32	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/29/15 22:32	1
tert-Butylbenzene	ND		2.0	ug/L			07/29/15 22:32	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/29/15 22:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/29/15 22:32	1
Tetrachloroethene	ND		1.0	ug/L			07/29/15 22:32	1
Toluene	ND		1.0	ug/L			07/29/15 22:32	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/29/15 22:32	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/29/15 22:32	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/29/15 22:32	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/29/15 22:32	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/29/15 22:32	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/29/15 22:32	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/29/15 22:32	1
Trichloroethene	**23**		1.0	ug/L			07/29/15 22:32	1
Trichlorofluoromethane	ND		1.0	ug/L			07/29/15 22:32	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/29/15 22:32	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/29/15 22:32	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/29/15 22:32	1
Vinyl chloride	ND		0.50	ug/L			07/29/15 22:32	1
Xylenes, Total	ND		2.0	ug/L			07/29/15 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/29/15 22:32*	*1*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*07/29/15 22:32*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Client Sample ID: EMW-04A-450-GW-27072015

Lab Sample ID: 440-116331-4
Date Collected: 07/27/15 14:00
Matrix: Water
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/29/15 22:32*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**160**		30	ug/L			08/04/15 10:59	10

Client Sample ID: EMW-04B-605-GW-27072015

Lab Sample ID: 440-116331-5
Date Collected: 07/27/15 13:30
Matrix: Water
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/29/15 23:02	1
Benzene	ND		0.50	ug/L			07/29/15 23:02	1
Bromobenzene	ND		1.0	ug/L			07/29/15 23:02	1
Bromochloromethane	ND		1.0	ug/L			07/29/15 23:02	1
Bromodichloromethane	ND		1.0	ug/L			07/29/15 23:02	1
Bromoform	ND		1.0	ug/L			07/29/15 23:02	1
Bromomethane	ND		2.0	ug/L			07/29/15 23:02	1
1,3-Butadiene	ND		1.0	ug/L			07/29/15 23:02	1
2-Butanone (MEK)	ND		10	ug/L			07/29/15 23:02	1
Carbon disulfide	ND		2.0	ug/L			07/29/15 23:02	1
Carbon tetrachloride	ND		1.0	ug/L			07/29/15 23:02	1
Chlorobenzene	ND		1.0	ug/L			07/29/15 23:02	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/29/15 23:02	1
Chloroethane	ND		1.0	ug/L			07/29/15 23:02	1
Chloroform	ND		1.0	ug/L			07/29/15 23:02	1
Chloromethane	ND		1.0	ug/L			07/29/15 23:02	1
2-Chlorotoluene	ND		2.0	ug/L			07/29/15 23:02	1
4-Chlorotoluene	ND		2.0	ug/L			07/29/15 23:02	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/29/15 23:02	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/29/15 23:02	1
Dibromochloromethane	ND		1.0	ug/L			07/29/15 23:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/29/15 23:02	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/29/15 23:02	1
Dibromomethane	ND		1.0	ug/L			07/29/15 23:02	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/29/15 23:02	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/29/15 23:02	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/29/15 23:02	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/29/15 23:02	1
1,1-Dichloroethane	ND		1.0	ug/L			07/29/15 23:02	1
1,2-Dichloroethane	ND		0.50	ug/L			07/29/15 23:02	1
1,1-Dichloroethene	ND		1.0	ug/L			07/29/15 23:02	1
1,2-Dichloropropane	ND		1.0	ug/L			07/29/15 23:02	1
1,3-Dichloropropane	ND		1.0	ug/L			07/29/15 23:02	1
2,2-Dichloropropane	ND		1.0	ug/L			07/29/15 23:02	1
1,1-Dichloropropene	ND		1.0	ug/L			07/29/15 23:02	1
Ethylbenzene	ND		1.0	ug/L			07/29/15 23:02	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/29/15 23:02	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Client Sample ID: EMW-04B-605-GW-27072015

Lab Sample ID: 440-116331-5
Date Collected: 07/27/15 13:30
Matrix: Water
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.0	ug/L			07/29/15 23:02	1
2-Hexanone	ND		10	ug/L			07/29/15 23:02	1
Isopropylbenzene	ND		1.0	ug/L			07/29/15 23:02	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/29/15 23:02	1
Methylene Chloride	ND		5.0	ug/L			07/29/15 23:02	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/29/15 23:02	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/29/15 23:02	1
m,p-Xylene	ND		1.0	ug/L			07/29/15 23:02	1
Naphthalene	ND		5.0	ug/L			07/29/15 23:02	1
n-Butylbenzene	ND		2.0	ug/L			07/29/15 23:02	1
N-Propylbenzene	ND		2.0	ug/L			07/29/15 23:02	1
o-Xylene	ND		1.0	ug/L			07/29/15 23:02	1
p-Isopropyltoluene	ND		2.0	ug/L			07/29/15 23:02	1
sec-Butylbenzene	ND		2.0	ug/L			07/29/15 23:02	1
Styrene	ND		1.0	ug/L			07/29/15 23:02	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/29/15 23:02	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/29/15 23:02	1
tert-Butylbenzene	ND		2.0	ug/L			07/29/15 23:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/29/15 23:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/29/15 23:02	1
Tetrachloroethene	ND		1.0	ug/L			07/29/15 23:02	1
Toluene	ND		1.0	ug/L			07/29/15 23:02	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/29/15 23:02	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/29/15 23:02	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/29/15 23:02	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/29/15 23:02	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/29/15 23:02	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/29/15 23:02	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/29/15 23:02	1
Trichloroethene	**7.5**		1.0	ug/L			07/29/15 23:02	1
Trichlorofluoromethane	ND		1.0	ug/L			07/29/15 23:02	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/29/15 23:02	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/29/15 23:02	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/29/15 23:02	1
Vinyl chloride	ND		0.50	ug/L			07/29/15 23:02	1
Xylenes, Total	ND		2.0	ug/L			07/29/15 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/29/15 23:02*	*1*
Dibromofluoromethane (Surr)	*114*		*76 - 132*		*07/29/15 23:02*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/29/15 23:02*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**33**		3.0	ug/L			08/04/15 11:16	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Client Sample ID: EMW-04C-690-GW-27072015

Lab Sample ID: 440-116331-6
Date Collected: 07/27/15 13:00
Matrix: Water
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/29/15 20:33	1
Benzene	ND		0.50		ug/L			07/29/15 20:33	1
Bromobenzene	ND		1.0		ug/L			07/29/15 20:33	1
Bromochloromethane	ND		1.0		ug/L			07/29/15 20:33	1
Bromodichloromethane	ND		1.0		ug/L			07/29/15 20:33	1
Bromoform	ND		1.0		ug/L			07/29/15 20:33	1
Bromomethane	ND		2.0		ug/L			07/29/15 20:33	1
1,3-Butadiene	ND		1.0		ug/L			07/29/15 20:33	1
2-Butanone (MEK)	ND		10		ug/L			07/29/15 20:33	1
Carbon disulfide	ND		2.0		ug/L			07/29/15 20:33	1
Carbon tetrachloride	ND		1.0		ug/L			07/29/15 20:33	1
Chlorobenzene	ND		1.0		ug/L			07/29/15 20:33	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/29/15 20:33	1
Chloroethane	ND		1.0		ug/L			07/29/15 20:33	1
Chloroform	ND		1.0		ug/L			07/29/15 20:33	1
Chloromethane	ND		1.0		ug/L			07/29/15 20:33	1
2-Chlorotoluene	ND		2.0		ug/L			07/29/15 20:33	1
4-Chlorotoluene	ND		2.0		ug/L			07/29/15 20:33	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/29/15 20:33	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/29/15 20:33	1
Dibromochloromethane	ND		1.0		ug/L			07/29/15 20:33	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/29/15 20:33	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/29/15 20:33	1
Dibromomethane	ND		1.0		ug/L			07/29/15 20:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/29/15 20:33	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/29/15 20:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/29/15 20:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/29/15 20:33	1
1,1-Dichloroethane	ND		1.0		ug/L			07/29/15 20:33	1
1,2-Dichloroethane	ND		0.50		ug/L			07/29/15 20:33	1
1,1-Dichloroethene	ND		1.0		ug/L			07/29/15 20:33	1
1,2-Dichloropropane	ND		1.0		ug/L			07/29/15 20:33	1
1,3-Dichloropropane	ND		1.0		ug/L			07/29/15 20:33	1
2,2-Dichloropropane	ND		1.0		ug/L			07/29/15 20:33	1
1,1-Dichloropropene	ND		1.0		ug/L			07/29/15 20:33	1
Ethylbenzene	ND		1.0		ug/L			07/29/15 20:33	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/29/15 20:33	1
Hexachlorobutadiene	ND		2.0		ug/L			07/29/15 20:33	1
2-Hexanone	ND		10		ug/L			07/29/15 20:33	1
Isopropylbenzene	ND		1.0		ug/L			07/29/15 20:33	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/29/15 20:33	1
Methylene Chloride	ND		5.0		ug/L			07/29/15 20:33	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/29/15 20:33	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/29/15 20:33	1
m,p-Xylene	ND		1.0		ug/L			07/29/15 20:33	1
Naphthalene	ND		5.0		ug/L			07/29/15 20:33	1
n-Butylbenzene	ND		2.0		ug/L			07/29/15 20:33	1
N-Propylbenzene	ND		2.0		ug/L			07/29/15 20:33	1
o-Xylene	ND		1.0		ug/L			07/29/15 20:33	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Client Sample ID: EMW-04C-690-GW-27072015

Lab Sample ID: 440-116331-6
Date Collected: 07/27/15 13:00
Matrix: Water
Date Received: 07/28/15 12:26

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/29/15 20:33	1
sec-Butylbenzene	ND		2.0	ug/L			07/29/15 20:33	1
Styrene	ND		1.0	ug/L			07/29/15 20:33	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/29/15 20:33	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/29/15 20:33	1
tert-Butylbenzene	ND		2.0	ug/L			07/29/15 20:33	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/29/15 20:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/29/15 20:33	1
Tetrachloroethene	ND		1.0	ug/L			07/29/15 20:33	1
Toluene	**3.2**		1.0	ug/L			07/29/15 20:33	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/29/15 20:33	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/29/15 20:33	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/29/15 20:33	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/29/15 20:33	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/29/15 20:33	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/29/15 20:33	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/29/15 20:33	1
Trichloroethene	ND		1.0	ug/L			07/29/15 20:33	1
Trichlorofluoromethane	ND		1.0	ug/L			07/29/15 20:33	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/29/15 20:33	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/29/15 20:33	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/29/15 20:33	1
Vinyl chloride	ND		0.50	ug/L			07/29/15 20:33	1
Xylenes, Total	ND		2.0	ug/L			07/29/15 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/29/15 20:33*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*07/29/15 20:33*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*07/29/15 20:33*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/31/15 14:46	1

Method Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
314.0 LL	Perchlorate (IC)	EPA	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Client Sample ID: 27072015TB-1 — Lab Sample ID: 440-116331-1

Date Collected: 07/27/15 07:00 — **Matrix: Water**
Date Received: 07/28/15 12:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	269952	07/29/15 23:32	AA	TAL IRV

Client Sample ID: 27072015FB-1 — Lab Sample ID: 440-116331-2

Date Collected: 07/27/15 14:15 — **Matrix: Water**
Date Received: 07/28/15 12:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	270234	07/31/15 01:15	AA	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	269952	07/30/15 00:02	AA	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270332	07/31/15 13:39	CH	TAL IRV

Client Sample ID: 27072015D-1 — Lab Sample ID: 440-116331-3

Date Collected: 07/27/15 00:01 — **Matrix: Water**
Date Received: 07/28/15 12:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	269952	07/29/15 22:03	AA	TAL IRV
Total/NA	Analysis	314.0 LL		10	1 mL		270843	08/04/15 10:41	CH	TAL IRV

Client Sample ID: EMW-04A-450-GW-27072015 — Lab Sample ID: 440-116331-4

Date Collected: 07/27/15 14:00 — **Matrix: Water**
Date Received: 07/28/15 12:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	269952	07/29/15 22:32	AA	TAL IRV
Total/NA	Analysis	314.0 LL		10	1 mL		270843	08/04/15 10:59	CH	TAL IRV

Client Sample ID: EMW-04B-605-GW-27072015 — Lab Sample ID: 440-116331-5

Date Collected: 07/27/15 13:30 — **Matrix: Water**
Date Received: 07/28/15 12:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	269952	07/29/15 23:02	AA	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270843	08/04/15 11:16	CH	TAL IRV

Client Sample ID: EMW-04C-690-GW-27072015 — Lab Sample ID: 440-116331-6

Date Collected: 07/27/15 13:00 — **Matrix: Water**
Date Received: 07/28/15 12:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	269952	07/29/15 20:33	AA	TAL IRV

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Client Sample ID: EMW-04C-690-GW-27072015

Lab Sample ID: 440-116331-6

Date Collected: 07/27/15 13:00
Matrix: Water
Date Received: 07/28/15 12:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	314.0 LL		1	1 mL		270332	07/31/15 14:46	CH	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-269952/4
Matrix: Water
Analysis Batch: 269952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/29/15 19:34	1
Benzene	ND		0.50	ug/L			07/29/15 19:34	1
Bromobenzene	ND		1.0	ug/L			07/29/15 19:34	1
Bromochloromethane	ND		1.0	ug/L			07/29/15 19:34	1
Bromodichloromethane	ND		1.0	ug/L			07/29/15 19:34	1
Bromoform	ND		1.0	ug/L			07/29/15 19:34	1
Bromomethane	ND		2.0	ug/L			07/29/15 19:34	1
1,3-Butadiene	ND		1.0	ug/L			07/29/15 19:34	1
2-Butanone (MEK)	ND		10	ug/L			07/29/15 19:34	1
Carbon disulfide	ND		2.0	ug/L			07/29/15 19:34	1
Carbon tetrachloride	ND		1.0	ug/L			07/29/15 19:34	1
Chlorobenzene	ND		1.0	ug/L			07/29/15 19:34	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/29/15 19:34	1
Chloroethane	ND		1.0	ug/L			07/29/15 19:34	1
Chloroform	ND		1.0	ug/L			07/29/15 19:34	1
Chloromethane	ND		1.0	ug/L			07/29/15 19:34	1
2-Chlorotoluene	ND		2.0	ug/L			07/29/15 19:34	1
4-Chlorotoluene	ND		2.0	ug/L			07/29/15 19:34	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/29/15 19:34	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/29/15 19:34	1
Dibromochloromethane	ND		1.0	ug/L			07/29/15 19:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/29/15 19:34	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/29/15 19:34	1
Dibromomethane	ND		1.0	ug/L			07/29/15 19:34	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/29/15 19:34	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/29/15 19:34	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/29/15 19:34	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/29/15 19:34	1
1,1-Dichloroethane	ND		1.0	ug/L			07/29/15 19:34	1
1,2-Dichloroethane	ND		0.50	ug/L			07/29/15 19:34	1
1,1-Dichloroethene	ND		1.0	ug/L			07/29/15 19:34	1
1,2-Dichloropropane	ND		1.0	ug/L			07/29/15 19:34	1
1,3-Dichloropropane	ND		1.0	ug/L			07/29/15 19:34	1
2,2-Dichloropropane	ND		1.0	ug/L			07/29/15 19:34	1
1,1-Dichloropropene	ND		1.0	ug/L			07/29/15 19:34	1
Ethylbenzene	ND		1.0	ug/L			07/29/15 19:34	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/29/15 19:34	1
Hexachlorobutadiene	ND		2.0	ug/L			07/29/15 19:34	1
2-Hexanone	ND		10	ug/L			07/29/15 19:34	1
Isopropylbenzene	ND		1.0	ug/L			07/29/15 19:34	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/29/15 19:34	1
Methylene Chloride	ND		5.0	ug/L			07/29/15 19:34	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/29/15 19:34	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/29/15 19:34	1
m,p-Xylene	ND		1.0	ug/L			07/29/15 19:34	1
Naphthalene	ND		5.0	ug/L			07/29/15 19:34	1
n-Butylbenzene	ND		2.0	ug/L			07/29/15 19:34	1
N-Propylbenzene	ND		2.0	ug/L			07/29/15 19:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-269952/4
Matrix: Water
Analysis Batch: 269952

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			07/29/15 19:34	1
p-Isopropyltoluene	ND		2.0		ug/L			07/29/15 19:34	1
sec-Butylbenzene	ND		2.0		ug/L			07/29/15 19:34	1
Styrene	ND		1.0		ug/L			07/29/15 19:34	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/29/15 19:34	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/29/15 19:34	1
tert-Butylbenzene	ND		2.0		ug/L			07/29/15 19:34	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/29/15 19:34	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/29/15 19:34	1
Tetrachloroethene	ND		1.0		ug/L			07/29/15 19:34	1
Toluene	ND		1.0		ug/L			07/29/15 19:34	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/29/15 19:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/29/15 19:34	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/29/15 19:34	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/29/15 19:34	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/29/15 19:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/29/15 19:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/29/15 19:34	1
Trichloroethene	ND		1.0		ug/L			07/29/15 19:34	1
Trichlorofluoromethane	ND		1.0		ug/L			07/29/15 19:34	1
1,2,3-Trichloropropane	ND		2.0		ug/L			07/29/15 19:34	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/29/15 19:34	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/29/15 19:34	1
Vinyl chloride	ND		0.50		ug/L			07/29/15 19:34	1
Xylenes, Total	ND		2.0		ug/L			07/29/15 19:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*07/29/15 19:34*	*1*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*07/29/15 19:34*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/29/15 19:34*	*1*

Lab Sample ID: LCS 440-269952/5
Matrix: Water
Analysis Batch: 269952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	21.6		ug/L		86	10 - 150
Benzene	25.0	22.7		ug/L		91	68 - 130
Bromobenzene	25.0	24.4		ug/L		98	70 - 130
Bromochloromethane	25.0	26.3		ug/L		105	70 - 130
Bromodichloromethane	25.0	28.3		ug/L		113	70 - 132
Bromoform	25.0	32.2		ug/L		129	60 - 148
Bromomethane	25.0	27.8		ug/L		111	64 - 139
2-Butanone (MEK)	25.0	25.6		ug/L		102	44 - 150
Carbon disulfide	25.0	23.4		ug/L		94	52 - 136
Carbon tetrachloride	25.0	30.7		ug/L		123	60 - 150
Chlorobenzene	25.0	23.5		ug/L		94	70 - 130
Chloroethane	25.0	25.9		ug/L		104	64 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-269952/5
Matrix: Water
Analysis Batch: 269952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	27.1		ug/L		108	70 - 130
Chloromethane	25.0	23.4		ug/L		93	47 - 140
2-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
4-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	70 - 133
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 133
Dibromochloromethane	25.0	27.9		ug/L		112	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	30.3		ug/L		121	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.7		ug/L		111	70 - 130
Dibromomethane	25.0	26.4		ug/L		106	70 - 130
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
Dichlorodifluoromethane	25.0	28.9		ug/L		116	29 - 150
1,1-Dichloroethane	25.0	23.7		ug/L		95	64 - 130
1,2-Dichloroethane	25.0	28.1		ug/L		112	57 - 138
1,1-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
1,2-Dichloropropane	25.0	23.5		ug/L		94	67 - 130
1,3-Dichloropropane	25.0	23.1		ug/L		92	70 - 130
2,2-Dichloropropane	25.0	29.4		ug/L		118	68 - 141
1,1-Dichloropropene	25.0	26.9		ug/L		108	70 - 130
Ethylbenzene	25.0	24.9		ug/L		100	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	27.0		ug/L		108	60 - 136
Hexachlorobutadiene	25.0	27.6		ug/L		110	10 - 150
2-Hexanone	25.0	22.7		ug/L		91	10 - 150
Isopropylbenzene	25.0	25.9		ug/L		104	70 - 136
Isopropyl Ether (DIPE)	25.0	23.2		ug/L		93	58 - 139
Methylene Chloride	25.0	23.7		ug/L		95	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	23.6		ug/L		95	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	28.7		ug/L		115	63 - 131
m,p-Xylene	25.0	24.1		ug/L		96	70 - 130
Naphthalene	25.0	24.6		ug/L		98	60 - 140
n-Butylbenzene	25.0	23.4		ug/L		94	65 - 150
N-Propylbenzene	25.0	23.5		ug/L		94	67 - 139
o-Xylene	25.0	23.8		ug/L		95	70 - 130
p-Isopropyltoluene	25.0	24.1		ug/L		96	70 - 132
sec-Butylbenzene	25.0	23.7		ug/L		95	70 - 138
Styrene	25.0	24.3		ug/L		97	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	28.8		ug/L		115	57 - 139
tert-Butyl alcohol (TBA)	250	254		ug/L		102	70 - 130
tert-Butylbenzene	25.0	25.4		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.6		ug/L		106	60 - 141
1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		92	63 - 130
Tetrachloroethene	25.0	26.2		ug/L		105	70 - 130
Toluene	25.0	22.4		ug/L		90	70 - 130
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	27.4		ug/L		110	70 - 132
1,2,3-Trichlorobenzene	25.0	24.5		ug/L		98	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-269952/5
Matrix: Water
Analysis Batch: 269952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	60 - 140
1,1,1-Trichloroethane	25.0	28.9		ug/L		116	70 - 130
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	70 - 130
Trichloroethene	25.0	25.7		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	31.3		ug/L		125	60 - 150
1,2,3-Trichloropropane	25.0	25.6		ug/L		102	63 - 130
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 135
1,3,5-Trimethylbenzene	25.0	25.6		ug/L		103	70 - 136
Vinyl chloride	25.0	27.3		ug/L		109	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*76 - 132*
Toluene-d8 (Surr)	*105*		*80 - 128*

Lab Sample ID: 440-116331-6 MS
Matrix: Water
Analysis Batch: 269952

Client Sample ID: EMW-04C-690-GW-27072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	ND		ug/L		79	10 - 150
Benzene	ND		25.0	21.5		ug/L		86	66 - 130
Bromobenzene	ND		25.0	23.1		ug/L		92	70 - 130
Bromochloromethane	ND		25.0	24.8		ug/L		99	70 - 130
Bromodichloromethane	ND		25.0	25.1		ug/L		101	70 - 138
Bromoform	ND		25.0	28.1		ug/L		112	59 - 150
Bromomethane	ND		25.0	24.8		ug/L		99	62 - 131
2-Butanone (MEK)	ND		25.0	20.4		ug/L		82	48 - 140
Carbon disulfide	ND		25.0	22.6		ug/L		91	49 - 140
Carbon tetrachloride	ND		25.0	29.8		ug/L		119	60 - 150
Chlorobenzene	ND		25.0	21.7		ug/L		87	70 - 130
Chloroethane	ND		25.0	25.6		ug/L		102	68 - 130
Chloroform	ND		25.0	25.9		ug/L		104	70 - 130
Chloromethane	ND		25.0	21.1		ug/L		85	39 - 144
2-Chlorotoluene	ND		25.0	23.7		ug/L		95	70 - 130
4-Chlorotoluene	ND		25.0	23.9		ug/L		96	70 - 130
cis-1,2-Dichloroethene	ND		25.0	20.9		ug/L		84	70 - 130
cis-1,3-Dichloropropene	ND		25.0	23.2		ug/L		93	70 - 133
Dibromochloromethane	ND		25.0	24.6		ug/L		98	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	26.1		ug/L		105	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	24.6		ug/L		98	70 - 131
Dibromomethane	ND		25.0	23.7		ug/L		95	70 - 130
1,2-Dichlorobenzene	ND		25.0	23.3		ug/L		93	70 - 130
1,3-Dichlorobenzene	ND		25.0	23.2		ug/L		93	70 - 130
1,4-Dichlorobenzene	ND		25.0	22.4		ug/L		90	70 - 130
Dichlorodifluoromethane	ND		25.0	26.3		ug/L		105	25 - 142
1,1-Dichloroethane	ND		25.0	22.7		ug/L		91	65 - 130
1,2-Dichloroethane	ND		25.0	26.5		ug/L		105	56 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116331-6 MS
Matrix: Water
Analysis Batch: 269952

Client Sample ID: EMW-04C-690-GW-27072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		25.0	24.2		ug/L		97	70 - 130
1,2-Dichloropropane	ND		25.0	21.7		ug/L		87	69 - 130
1,3-Dichloropropane	ND		25.0	20.4		ug/L		82	70 - 130
2,2-Dichloropropane	ND		25.0	27.8		ug/L		111	69 - 138
1,1-Dichloropropene	ND		25.0	26.8		ug/L		107	64 - 130
Ethylbenzene	ND		25.0	23.1		ug/L		92	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.3		ug/L		97	70 - 130
Hexachlorobutadiene	ND		25.0	27.8		ug/L		111	10 - 150
2-Hexanone	ND		25.0	19.4		ug/L		78	10 - 150
Isopropylbenzene	ND		25.0	24.8		ug/L		99	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	21.3		ug/L		85	64 - 138
Methylene Chloride	ND		25.0	23.9		ug/L		91	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	19.4		ug/L		78	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.7		ug/L		103	70 - 130
m,p-Xylene	ND		25.0	23.0		ug/L		92	70 - 133
Naphthalene	ND		25.0	22.5		ug/L		90	60 - 140
n-Butylbenzene	ND		25.0	23.3		ug/L		93	61 - 149
N-Propylbenzene	ND		25.0	23.1		ug/L		92	66 - 135
o-Xylene	ND		25.0	21.7		ug/L		87	70 - 133
p-Isopropyltoluene	ND		25.0	24.4		ug/L		97	70 - 130
sec-Butylbenzene	ND		25.0	23.2		ug/L		93	67 - 134
Styrene	ND		25.0	22.5		ug/L		90	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	25.5		ug/L		102	68 - 133
tert-Butyl alcohol (TBA)	ND		250	247		ug/L		99	70 - 130
tert-Butylbenzene	ND		25.0	25.2		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	24.6		ug/L		99	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	21.3		ug/L		85	63 - 130
Tetrachloroethene	ND		25.0	25.2		ug/L		101	70 - 137
Toluene	3.2		25.0	23.5		ug/L		81	70 - 130
trans-1,2-Dichloroethene	ND		25.0	24.8		ug/L		99	70 - 130
trans-1,3-Dichloropropene	ND		25.0	24.1		ug/L		96	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	23.3		ug/L		93	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	24.9		ug/L		100	60 - 140
1,1,1-Trichloroethane	ND		25.0	28.5		ug/L		114	70 - 130
1,1,2-Trichloroethane	ND		25.0	21.1		ug/L		85	70 - 130
Trichloroethene	ND		25.0	25.2		ug/L		101	70 - 130
Trichlorofluoromethane	ND		25.0	31.0		ug/L		124	60 - 150
1,2,3-Trichloropropane	ND		25.0	23.1		ug/L		92	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	24.1		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	25.1		ug/L		100	70 - 130
Vinyl chloride	ND		25.0	25.9		ug/L		103	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116331-6 MSD
Matrix: Water
Analysis Batch: 269952

Client Sample ID: EMW-04C-690-GW-27072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	23.9		ug/L		96	10 - 150	19	35
Benzene	ND		25.0	22.4		ug/L		89	66 - 130	4	20
Bromobenzene	ND		25.0	24.4		ug/L		98	70 - 130	6	20
Bromochloromethane	ND		25.0	25.4		ug/L		102	70 - 130	3	25
Bromodichloromethane	ND		25.0	27.4		ug/L		110	70 - 138	8	20
Bromoform	ND		25.0	31.4		ug/L		125	59 - 150	11	25
Bromomethane	ND		25.0	26.3		ug/L		105	62 - 131	6	25
2-Butanone (MEK)	ND		25.0	26.0		ug/L		104	48 - 140	24	40
Carbon disulfide	ND		25.0	23.4		ug/L		94	49 - 140	3	20
Carbon tetrachloride	ND		25.0	31.2		ug/L		125	60 - 150	4	25
Chlorobenzene	ND		25.0	22.9		ug/L		92	70 - 130	5	20
Chloroethane	ND		25.0	26.2		ug/L		105	68 - 130	3	25
Chloroform	ND		25.0	26.6		ug/L		106	70 - 130	3	20
Chloromethane	ND		25.0	22.2		ug/L		89	39 - 144	5	25
2-Chlorotoluene	ND		25.0	24.8		ug/L		99	70 - 130	5	20
4-Chlorotoluene	ND		25.0	25.4		ug/L		101	70 - 130	6	20
cis-1,2-Dichloroethene	ND		25.0	21.5		ug/L		86	70 - 130	3	20
cis-1,3-Dichloropropene	ND		25.0	24.1		ug/L		97	70 - 133	4	20
Dibromochloromethane	ND		25.0	26.5		ug/L		106	70 - 148	8	25
1,2-Dibromo-3-Chloropropane	ND		25.0	31.0		ug/L		124	48 - 140	17	30
1,2-Dibromoethane (EDB)	ND		25.0	27.0		ug/L		108	70 - 131	9	25
Dibromomethane	ND		25.0	24.9		ug/L		100	70 - 130	5	25
1,2-Dichlorobenzene	ND		25.0	24.0		ug/L		96	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	24.2		ug/L		97	70 - 130	4	20
1,4-Dichlorobenzene	ND		25.0	23.8		ug/L		95	70 - 130	6	20
Dichlorodifluoromethane	ND		25.0	28.8		ug/L		115	25 - 142	9	30
1,1-Dichloroethane	ND		25.0	23.5		ug/L		94	65 - 130	4	20
1,2-Dichloroethane	ND		25.0	27.5		ug/L		109	56 - 146	4	20
1,1-Dichloroethene	ND		25.0	25.8		ug/L		103	70 - 130	7	20
1,2-Dichloropropane	ND		25.0	22.8		ug/L		91	69 - 130	5	20
1,3-Dichloropropane	ND		25.0	22.1		ug/L		89	70 - 130	8	25
2,2-Dichloropropane	ND		25.0	29.9		ug/L		120	69 - 138	7	25
1,1-Dichloropropene	ND		25.0	27.8		ug/L		111	64 - 130	4	20
Ethylbenzene	ND		25.0	24.9		ug/L		100	70 - 130	8	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	25.6		ug/L		102	70 - 130	5	25
Hexachlorobutadiene	ND		25.0	29.2		ug/L		117	10 - 150	5	20
2-Hexanone	ND		25.0	24.3		ug/L		97	10 - 150	22	35
Isopropylbenzene	ND		25.0	26.3		ug/L		105	70 - 132	6	20
Isopropyl Ether (DIPE)	ND		25.0	22.4		ug/L		90	64 - 138	5	25
Methylene Chloride	ND		25.0	24.7		ug/L		94	52 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.6		ug/L		95	52 - 150	20	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.3		ug/L		109	70 - 130	6	25
m,p-Xylene	ND		25.0	24.1		ug/L		97	70 - 133	5	25
Naphthalene	ND		25.0	25.1		ug/L		100	60 - 140	11	30
n-Butylbenzene	ND		25.0	25.0		ug/L		100	61 - 149	7	20
N-Propylbenzene	ND		25.0	24.5		ug/L		98	66 - 135	6	20
o-Xylene	ND		25.0	23.3		ug/L		93	70 - 133	7	20
p-Isopropyltoluene	ND		25.0	25.6		ug/L		102	70 - 130	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116331-6 MSD — **Client Sample ID: EMW-04C-690-GW-27072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 269952

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	25.0		ug/L		100	67 - 134	7	20
Styrene	ND		25.0	23.9		ug/L		96	29 - 150	6	35
Tert-amyl-methyl ether (TAME)	ND		25.0	27.2		ug/L		109	68 - 133	7	30
tert-Butyl alcohol (TBA)	ND		250	252		ug/L		101	70 - 130	2	25
tert-Butylbenzene	ND		25.0	26.8		ug/L		107	70 - 130	6	20
1,1,1,2-Tetrachloroethane	ND		25.0	25.9		ug/L		104	60 - 149	5	20
1,1,2,2-Tetrachloroethane	ND		25.0	23.6		ug/L		95	63 - 130	10	30
Tetrachloroethene	ND		25.0	26.6		ug/L		106	70 - 137	6	20
Toluene	3.2		25.0	25.0		ug/L		87	70 - 130	6	20
trans-1,2-Dichloroethene	ND		25.0	25.9		ug/L		104	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	25.9		ug/L		104	70 - 138	7	25
1,2,3-Trichlorobenzene	ND		25.0	25.2		ug/L		101	60 - 140	8	20
1,2,4-Trichlorobenzene	ND		25.0	25.9		ug/L		104	60 - 140	4	20
1,1,1-Trichloroethane	ND		25.0	30.0		ug/L		120	70 - 130	5	20
1,1,2-Trichloroethane	ND		25.0	22.9		ug/L		91	70 - 130	8	25
Trichloroethene	ND		25.0	26.0		ug/L		104	70 - 130	3	20
Trichlorofluoromethane	ND		25.0	32.5		ug/L		130	60 - 150	5	25
1,2,3-Trichloropropane	ND		25.0	26.3		ug/L		105	60 - 130	13	30
1,2,4-Trimethylbenzene	ND		25.0	25.5		ug/L		102	70 - 130	6	25
1,3,5-Trimethylbenzene	ND		25.0	26.1		ug/L		104	70 - 130	4	20
Vinyl chloride	ND		25.0	27.4		ug/L		110	50 - 137	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: MB 440-270234/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270234

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10		ug/L			07/30/15 19:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/30/15 19:43*	*1*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*07/30/15 19:43*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*07/30/15 19:43*	*1*

Lab Sample ID: LCS 440-270234/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270234

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Butanone (MEK)			25.0	28.4		ug/L		114	44 - 150		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-270234/4
Matrix: Water
Analysis Batch: 270234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
Toluene-d8 (Surr)	*106*		*80 - 128*

Lab Sample ID: 440-116469-E-6 MS
Matrix: Water
Analysis Batch: 270234

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Butanone (MEK)	ND	F1	25.0	33.3		ug/L		133	48 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*
Toluene-d8 (Surr)	*109*		*80 - 128*

Lab Sample ID: 440-116469-E-6 MSD
Matrix: Water
Analysis Batch: 270234

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	ND	F1	25.0	37.3	F1	ug/L		149	48 - 140	11	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*106*		*80 - 128*

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 440-270332/3
Matrix: Water
Analysis Batch: 270332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			07/31/15 09:06	1

Lab Sample ID: LCS 440-270332/2
Matrix: Water
Analysis Batch: 270332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	25.8		ug/L		103	85 - 115		

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 440-270332/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270332

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			4.00	4.11		ug/L		103	75 - 125		

Lab Sample ID: 440-116435-A-4 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270332

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	3.6		25.0	31.4		ug/L		111	80 - 120		

Lab Sample ID: 440-116435-A-4 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270332

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	3.6		25.0	30.7		ug/L		108	80 - 120	2	20

Lab Sample ID: MB 440-270843/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270843

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			08/04/15 08:14	1

Lab Sample ID: LCS 440-270843/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270843

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	23.3		ug/L		93	85 - 115		

Lab Sample ID: MRL 440-270843/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270843

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			4.00	3.67		ug/L		92	75 - 125		

QC Association Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

GC/MS VOA

Analysis Batch: 269952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116331-1	27072015TB-1	Total/NA	Water	8260B	
440-116331-2	27072015FB-1	Total/NA	Water	8260B	
440-116331-3	27072015D-1	Total/NA	Water	8260B	
440-116331-4	EMW-04A-450-GW-27072015	Total/NA	Water	8260B	
440-116331-5	EMW-04B-605-GW-27072015	Total/NA	Water	8260B	
440-116331-6	EMW-04C-690-GW-27072015	Total/NA	Water	8260B	
440-116331-6 MS	EMW-04C-690-GW-27072015	Total/NA	Water	8260B	
440-116331-6 MSD	EMW-04C-690-GW-27072015	Total/NA	Water	8260B	
LCS 440-269952/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-269952/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 270234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116331-2 - RA	27072015FB-1	Total/NA	Water	8260B	
440-116469-E-6 MS	Matrix Spike	Total/NA	Water	8260B	
440-116469-E-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-270234/4	Lab Control Sample	Total/NA	Water	8260B	
MB 440-270234/3	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 270332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116331-2	27072015FB-1	Total/NA	Water	314.0 LL	
440-116331-6	EMW-04C-690-GW-27072015	Total/NA	Water	314.0 LL	
440-116435-A-4 MS	Matrix Spike	Total/NA	Water	314.0 LL	
440-116435-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
LCS 440-270332/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-270332/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-270332/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Analysis Batch: 270843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116331-3	27072015D-1	Total/NA	Water	314.0 LL	
440-116331-4	EMW-04A-450-GW-27072015	Total/NA	Water	314.0 LL	
440-116331-5	EMW-04B-605-GW-27072015	Total/NA	Water	314.0 LL	
LCS 440-270843/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-270843/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-270843/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116331-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16

* Certification renewal pending - certification considered valid.

Mata, Patty

From:	Holbrook, Holly [Holly.Holbrook@aecom.com]
Sent:	Thursday, July 30, 2015 4:12 PM
To:	Mata, Patty
Cc:	Glidden, Bret W.; Bayati, Lily
Subject:	RE: COC error
Follow Up Flag:	Follow up
Flag Status:	Red

Yes, please. Thank you, Patty!

Holly Holbrook
Environment
D: 714.689.7215 C: 562.577.6058

From: Mata, Patty [mailto:Patty.Mata@testamericainc.com]
Sent: Thursday, July 30, 2015 3:44 PM
To: Holbrook, Holly
Cc: Glidden, Bret W.; Bayati, Lily
Subject: RE: COC error

Holly,

Sample IDs show a zero before the number 5 that you want changed to number, so I have EMW-05A-450-etc. Do I keep the zero in the ID when I change the 5 to 4? The COC is attached if you want to see it.

Thanks,

PATTY MATA
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue Suite #100
Irvine, CA 92614
Tel 949 261 1022 Fax 949 260 3297
www.testamericainc.com
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From: Holbrook, Holly [mailto:Holly.Holbrook@aecom.com]
Sent: Thursday, July 30, 2015 2:04 PM
To: Mata, Patty
Cc: Glidden, Bret W.; Bayati, Lily
Subject: COC error

Patty,

I just heard from our field person that we have an issue with the sample IDs on one set of samples:

ALSO, I just noticed a major goof on my part on the 7/27/2015 shipment (COC copy attached). The zones (A,B,C) are correct but the well ID's are not, it SHOULD have been well EMW-4 NOT EMW-5.

Samples:
EMW-4A-450-GW-27072015
EMW-4B-605-GW-27072015
EMW-4C-690-GW-27072015

Can we please make this correction on the lab report and the EDD?

Thank you,

Holly Holbrook
Environment
D: 714.689.7215 C: 562.577.6058
Holly.Holbrook@aecom.com

AECOM
999 W. Town and Country Road
Orange, CA 92868-4713
www.aecom.com

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Please consider the environment before printing this e-mail.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 27/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Ben Stevens
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
27072015TB -1	7/27/15	0700	G	W	3	N	N	X		
27072015FB -1	7/27/15	1415	G	W	4	N	N	X	X	
27072015D -1	7/27/15	—	G	W	4	N	N	X	X	
EMW-05A-450-GW-27072015	7/27/15	1400	G	W	4	N	N	X	X	
EMW-05B-612-GW-27072015	7/27/15	1330	G	W	4	N	N	X	X	
EMW-05C-720-GW-27072015	7/27/15	1300	G	W	4	N	N	X	X	
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			

440-116331 Login
PM: Mata, Patty
Company: AECOM, Inc.

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____ 1 2 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.2 Corr'd: 4.6 | Therm ID No.: IR-28

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ben	BlanoTech	7/27/15 16:30	Nicole	BlanoTech	7/27/15 16:30
Nicole	BlanoTech	7/28/15 10:15	George Gerardo	UTC DCS	7/28/15 10:15
George Gerardo	DCS	7/28/15 12:26	Received in Laboratory by:	Company:	Date/Time:
			J. Bauer	TAI	7/28/15 12:26

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-116331-1

Login Number: 116331
List Number: 1
Creator: Jackson, Brent E

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-116350-1
Client Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

For:
AECOM, Inc.
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Ms. Rebecca Mora

Authorized for release by:
8/5/2015 9:50:42 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-116350-1	28072015TB-1	Water	07/28/15 07:00	07/28/15 18:30
440-116350-2	IN/5W-34D25-770-GW-28072015	Water	07/28/15 08:50	07/28/15 18:30
440-116350-3	IN/5W-34D3S-600-GW-28072015	Water	07/28/15 09:05	07/28/15 18:30
440-116350-4	28072015FB-1	Water	07/28/15 08:30	07/28/15 18:30
440-116350-5	EMW-05A-450-GW-28072015	Water	07/28/15 10:15	07/28/15 18:30
440-116350-6	EMW-05B-612-GW-28072015	Water	07/28/15 10:00	07/28/15 18:30
440-116350-7	EMW-05C-720-GW-28072015	Water	07/28/15 09:30	07/28/15 18:30
440-116350-8	PW-3-490-GW-28072015	Water	07/28/15 10:35	07/28/15 18:30
440-116350-9	PW-2-475-GW-28072015	Water	07/28/15 10:50	07/28/15 18:30
440-116350-10	PW-4-490-GW-28072015	Water	07/28/15 11:20	07/28/15 18:30
440-116350-11	EMW-03A-418-GW-28072015	Water	07/28/15 12:50	07/28/15 18:30
440-116350-12	EMW-03B-560-GW-28072015	Water	07/28/15 12:15	07/28/15 18:30
440-116350-13	EMW-03C-640-GW-28072015	Water	07/28/15 11:40	07/28/15 18:30

Case Narrative

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Job ID: 440-116350-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-116350-1

Comments
No additional comments.

Receipt
The samples were received on 7/28/2015 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: 28072015TB-1

Date Collected: 07/28/15 07:00
Date Received: 07/28/15 18:30

Lab Sample ID: 440-116350-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/30/15 22:02	1
Benzene	ND		0.50		ug/L			07/30/15 22:02	1
Bromobenzene	ND		1.0		ug/L			07/30/15 22:02	1
Bromochloromethane	ND		1.0		ug/L			07/30/15 22:02	1
Bromodichloromethane	ND		1.0		ug/L			07/30/15 22:02	1
Bromoform	ND		1.0		ug/L			07/30/15 22:02	1
Bromomethane	ND		2.0		ug/L			07/30/15 22:02	1
1,3-Butadiene	ND		1.0		ug/L			07/30/15 22:02	1
2-Butanone (MEK)	ND		10		ug/L			07/30/15 22:02	1
Carbon disulfide	ND		2.0		ug/L			07/30/15 22:02	1
Carbon tetrachloride	ND		1.0		ug/L			07/30/15 22:02	1
Chlorobenzene	ND		1.0		ug/L			07/30/15 22:02	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/30/15 22:02	1
Chloroethane	ND		1.0		ug/L			07/30/15 22:02	1
Chloroform	ND		1.0		ug/L			07/30/15 22:02	1
Chloromethane	ND		1.0		ug/L			07/30/15 22:02	1
2-Chlorotoluene	ND		2.0		ug/L			07/30/15 22:02	1
4-Chlorotoluene	ND		2.0		ug/L			07/30/15 22:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/30/15 22:02	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/30/15 22:02	1
Dibromochloromethane	ND		1.0		ug/L			07/30/15 22:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/30/15 22:02	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/30/15 22:02	1
Dibromomethane	ND		1.0		ug/L			07/30/15 22:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/30/15 22:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/30/15 22:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/30/15 22:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/30/15 22:02	1
1,1-Dichloroethane	ND		1.0		ug/L			07/30/15 22:02	1
1,2-Dichloroethane	ND		0.50		ug/L			07/30/15 22:02	1
1,1-Dichloroethene	ND		1.0		ug/L			07/30/15 22:02	1
1,2-Dichloropropane	ND		1.0		ug/L			07/30/15 22:02	1
1,3-Dichloropropane	ND		1.0		ug/L			07/30/15 22:02	1
2,2-Dichloropropane	ND		1.0		ug/L			07/30/15 22:02	1
1,1-Dichloropropene	ND		1.0		ug/L			07/30/15 22:02	1
Ethylbenzene	ND		1.0		ug/L			07/30/15 22:02	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/30/15 22:02	1
Hexachlorobutadiene	ND		2.0		ug/L			07/30/15 22:02	1
2-Hexanone	ND		10		ug/L			07/30/15 22:02	1
Isopropylbenzene	ND		1.0		ug/L			07/30/15 22:02	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/30/15 22:02	1
Methylene Chloride	ND		5.0		ug/L			07/30/15 22:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/30/15 22:02	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/30/15 22:02	1
m,p-Xylene	ND		1.0		ug/L			07/30/15 22:02	1
Naphthalene	ND		5.0		ug/L			07/30/15 22:02	1
n-Butylbenzene	ND		2.0		ug/L			07/30/15 22:02	1
N-Propylbenzene	ND		2.0		ug/L			07/30/15 22:02	1
o-Xylene	ND		1.0		ug/L			07/30/15 22:02	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: 28072015TB-1

Lab Sample ID: 440-116350-1
Date Collected: 07/28/15 07:00
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/30/15 22:02	1
sec-Butylbenzene	ND		2.0	ug/L			07/30/15 22:02	1
Styrene	ND		1.0	ug/L			07/30/15 22:02	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/30/15 22:02	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/30/15 22:02	1
tert-Butylbenzene	ND		2.0	ug/L			07/30/15 22:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/30/15 22:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/30/15 22:02	1
Tetrachloroethene	ND		1.0	ug/L			07/30/15 22:02	1
Toluene	ND		1.0	ug/L			07/30/15 22:02	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/30/15 22:02	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/30/15 22:02	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/30/15 22:02	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/30/15 22:02	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/30/15 22:02	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/30/15 22:02	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/30/15 22:02	1
Trichloroethene	ND		1.0	ug/L			07/30/15 22:02	1
Trichlorofluoromethane	ND		1.0	ug/L			07/30/15 22:02	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/30/15 22:02	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/30/15 22:02	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/30/15 22:02	1
Vinyl chloride	ND		0.50	ug/L			07/30/15 22:02	1
Xylenes, Total	ND		2.0	ug/L			07/30/15 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/30/15 22:02*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*07/30/15 22:02*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/30/15 22:02*	*1*

Client Sample ID: IN/5W-34D25-770-GW-28072015

Lab Sample ID: 440-116350-2
Date Collected: 07/28/15 08:50
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/30/15 20:09	1
Benzene	ND		0.50	ug/L			07/30/15 20:09	1
Bromobenzene	ND		1.0	ug/L			07/30/15 20:09	1
Bromochloromethane	ND		1.0	ug/L			07/30/15 20:09	1
Bromodichloromethane	ND		1.0	ug/L			07/30/15 20:09	1
Bromoform	ND		1.0	ug/L			07/30/15 20:09	1
Bromomethane	ND		2.0	ug/L			07/30/15 20:09	1
1,3-Butadiene	ND		1.0	ug/L			07/30/15 20:09	1
2-Butanone (MEK)	ND		10	ug/L			07/30/15 20:09	1
Carbon disulfide	ND		2.0	ug/L			07/30/15 20:09	1
Carbon tetrachloride	ND		1.0	ug/L			07/30/15 20:09	1
Chlorobenzene	ND		1.0	ug/L			07/30/15 20:09	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/30/15 20:09	1
Chloroethane	ND		1.0	ug/L			07/30/15 20:09	1

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: IN/5W-34D25-770-GW-28072015
Date Collected: 07/28/15 08:50
Date Received: 07/28/15 18:30

Lab Sample ID: 440-116350-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	ug/L			07/30/15 20:09	1
Chloromethane	ND		1.0	ug/L			07/30/15 20:09	1
2-Chlorotoluene	ND		2.0	ug/L			07/30/15 20:09	1
4-Chlorotoluene	ND		2.0	ug/L			07/30/15 20:09	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/30/15 20:09	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/30/15 20:09	1
Dibromochloromethane	ND		1.0	ug/L			07/30/15 20:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/30/15 20:09	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/30/15 20:09	1
Dibromomethane	ND		1.0	ug/L			07/30/15 20:09	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/30/15 20:09	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/30/15 20:09	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/30/15 20:09	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/30/15 20:09	1
1,1-Dichloroethane	ND		1.0	ug/L			07/30/15 20:09	1
1,2-Dichloroethane	ND		0.50	ug/L			07/30/15 20:09	1
1,1-Dichloroethene	ND		1.0	ug/L			07/30/15 20:09	1
1,2-Dichloropropane	ND		1.0	ug/L			07/30/15 20:09	1
1,3-Dichloropropane	ND		1.0	ug/L			07/30/15 20:09	1
2,2-Dichloropropane	ND		1.0	ug/L			07/30/15 20:09	1
1,1-Dichloropropene	ND		1.0	ug/L			07/30/15 20:09	1
Ethylbenzene	ND		1.0	ug/L			07/30/15 20:09	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/30/15 20:09	1
Hexachlorobutadiene	ND		2.0	ug/L			07/30/15 20:09	1
2-Hexanone	ND		10	ug/L			07/30/15 20:09	1
Isopropylbenzene	ND		1.0	ug/L			07/30/15 20:09	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/30/15 20:09	1
Methylene Chloride	ND		5.0	ug/L			07/30/15 20:09	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/30/15 20:09	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/30/15 20:09	1
m,p-Xylene	ND		1.0	ug/L			07/30/15 20:09	1
Naphthalene	ND		5.0	ug/L			07/30/15 20:09	1
n-Butylbenzene	ND		2.0	ug/L			07/30/15 20:09	1
N-Propylbenzene	ND		2.0	ug/L			07/30/15 20:09	1
o-Xylene	ND		1.0	ug/L			07/30/15 20:09	1
p-Isopropyltoluene	ND		2.0	ug/L			07/30/15 20:09	1
sec-Butylbenzene	ND		2.0	ug/L			07/30/15 20:09	1
Styrene	ND		1.0	ug/L			07/30/15 20:09	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/30/15 20:09	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/30/15 20:09	1
tert-Butylbenzene	ND		2.0	ug/L			07/30/15 20:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/30/15 20:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/30/15 20:09	1
Tetrachloroethene	ND		1.0	ug/L			07/30/15 20:09	1
Toluene	ND		1.0	ug/L			07/30/15 20:09	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/30/15 20:09	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/30/15 20:09	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/30/15 20:09	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/30/15 20:09	1

Client Sample ID: IN/5W-34D25-770-GW-28072015

Lab Sample ID: 440-116350-2

Date Collected: 07/28/15 08:50
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/30/15 20:09	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/30/15 20:09	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/30/15 20:09	1
Trichloroethene	ND		1.0	ug/L			07/30/15 20:09	1
Trichlorofluoromethane	ND		1.0	ug/L			07/30/15 20:09	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/30/15 20:09	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/30/15 20:09	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/30/15 20:09	1
Vinyl chloride	ND		0.50	ug/L			07/30/15 20:09	1
Xylenes, Total	ND		2.0	ug/L			07/30/15 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/30/15 20:09*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*07/30/15 20:09*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/30/15 20:09*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**83**		3.0	ug/L			07/30/15 15:38	1

Client Sample ID: IN/5W-34D3S-600-GW-28072015

Lab Sample ID: 440-116350-3

Date Collected: 07/28/15 09:05
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/30/15 21:34	1
Benzene	ND		0.50	ug/L			07/30/15 21:34	1
Bromobenzene	ND		1.0	ug/L			07/30/15 21:34	1
Bromochloromethane	ND		1.0	ug/L			07/30/15 21:34	1
Bromodichloromethane	ND		1.0	ug/L			07/30/15 21:34	1
Bromoform	ND		1.0	ug/L			07/30/15 21:34	1
Bromomethane	ND		2.0	ug/L			07/30/15 21:34	1
1,3-Butadiene	ND		1.0	ug/L			07/30/15 21:34	1
2-Butanone (MEK)	ND		10	ug/L			07/30/15 21:34	1
Carbon disulfide	ND		2.0	ug/L			07/30/15 21:34	1
Carbon tetrachloride	ND		1.0	ug/L			07/30/15 21:34	1
Chlorobenzene	ND		1.0	ug/L			07/30/15 21:34	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/30/15 21:34	1
Chloroethane	ND		1.0	ug/L			07/30/15 21:34	1
Chloroform	ND		1.0	ug/L			07/30/15 21:34	1
Chloromethane	ND		1.0	ug/L			07/30/15 21:34	1
2-Chlorotoluene	ND		2.0	ug/L			07/30/15 21:34	1
4-Chlorotoluene	ND		2.0	ug/L			07/30/15 21:34	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/30/15 21:34	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/30/15 21:34	1
Dibromochloromethane	ND		1.0	ug/L			07/30/15 21:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/30/15 21:34	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/30/15 21:34	1
Dibromomethane	ND		1.0	ug/L			07/30/15 21:34	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: IN/5W-34D3S-600-GW-28072015

Lab Sample ID: 440-116350-3
Date Collected: 07/28/15 09:05
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	ug/L			07/30/15 21:34	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/30/15 21:34	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/30/15 21:34	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/30/15 21:34	1
1,1-Dichloroethane	ND		1.0	ug/L			07/30/15 21:34	1
1,2-Dichloroethane	ND		0.50	ug/L			07/30/15 21:34	1
1,1-Dichloroethene	ND		1.0	ug/L			07/30/15 21:34	1
1,2-Dichloropropane	ND		1.0	ug/L			07/30/15 21:34	1
1,3-Dichloropropane	ND		1.0	ug/L			07/30/15 21:34	1
2,2-Dichloropropane	ND		1.0	ug/L			07/30/15 21:34	1
1,1-Dichloropropene	ND		1.0	ug/L			07/30/15 21:34	1
Ethylbenzene	ND		1.0	ug/L			07/30/15 21:34	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/30/15 21:34	1
Hexachlorobutadiene	ND		2.0	ug/L			07/30/15 21:34	1
2-Hexanone	ND		10	ug/L			07/30/15 21:34	1
Isopropylbenzene	ND		1.0	ug/L			07/30/15 21:34	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/30/15 21:34	1
Methylene Chloride	ND		5.0	ug/L			07/30/15 21:34	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/30/15 21:34	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/30/15 21:34	1
m,p-Xylene	ND		1.0	ug/L			07/30/15 21:34	1
Naphthalene	ND		5.0	ug/L			07/30/15 21:34	1
n-Butylbenzene	ND		2.0	ug/L			07/30/15 21:34	1
N-Propylbenzene	ND		2.0	ug/L			07/30/15 21:34	1
o-Xylene	ND		1.0	ug/L			07/30/15 21:34	1
p-Isopropyltoluene	ND		2.0	ug/L			07/30/15 21:34	1
sec-Butylbenzene	ND		2.0	ug/L			07/30/15 21:34	1
Styrene	ND		1.0	ug/L			07/30/15 21:34	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/30/15 21:34	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/30/15 21:34	1
tert-Butylbenzene	ND		2.0	ug/L			07/30/15 21:34	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/30/15 21:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/30/15 21:34	1
Tetrachloroethene	ND		1.0	ug/L			07/30/15 21:34	1
Toluene	ND		1.0	ug/L			07/30/15 21:34	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/30/15 21:34	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/30/15 21:34	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/30/15 21:34	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/30/15 21:34	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/30/15 21:34	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/30/15 21:34	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/30/15 21:34	1
Trichloroethene	**2.9**		1.0	ug/L			07/30/15 21:34	1
Trichlorofluoromethane	ND		1.0	ug/L			07/30/15 21:34	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/30/15 21:34	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/30/15 21:34	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/30/15 21:34	1
Vinyl chloride	ND		0.50	ug/L			07/30/15 21:34	1
Xylenes, Total	ND		2.0	ug/L			07/30/15 21:34	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: IN/5W-34D3S-600-GW-28072015

Lab Sample ID: 440-116350-3
Date Collected: 07/28/15 09:05
Matrix: Water
Date Received: 07/28/15 18:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/30/15 21:34*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*07/30/15 21:34*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/30/15 21:34*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**500**		30	ug/L			07/31/15 13:05	10

Client Sample ID: 28072015FB-1

Lab Sample ID: 440-116350-4
Date Collected: 07/28/15 08:30
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/30/15 23:55	1
Benzene	ND		0.50	ug/L			07/30/15 23:55	1
Bromobenzene	ND		1.0	ug/L			07/30/15 23:55	1
Bromochloromethane	ND		1.0	ug/L			07/30/15 23:55	1
Bromodichloromethane	ND		1.0	ug/L			07/30/15 23:55	1
Bromoform	ND		1.0	ug/L			07/30/15 23:55	1
Bromomethane	ND		2.0	ug/L			07/30/15 23:55	1
1,3-Butadiene	ND		1.0	ug/L			07/30/15 23:55	1
2-Butanone (MEK)	**16**		10	ug/L			07/30/15 23:55	1
Carbon disulfide	ND		2.0	ug/L			07/30/15 23:55	1
Carbon tetrachloride	ND		1.0	ug/L			07/30/15 23:55	1
Chlorobenzene	ND		1.0	ug/L			07/30/15 23:55	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/30/15 23:55	1
Chloroethane	ND		1.0	ug/L			07/30/15 23:55	1
Chloroform	ND		1.0	ug/L			07/30/15 23:55	1
Chloromethane	ND		1.0	ug/L			07/30/15 23:55	1
2-Chlorotoluene	ND		2.0	ug/L			07/30/15 23:55	1
4-Chlorotoluene	ND		2.0	ug/L			07/30/15 23:55	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/30/15 23:55	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/30/15 23:55	1
Dibromochloromethane	ND		1.0	ug/L			07/30/15 23:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/30/15 23:55	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/30/15 23:55	1
Dibromomethane	ND		1.0	ug/L			07/30/15 23:55	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/30/15 23:55	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/30/15 23:55	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/30/15 23:55	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/30/15 23:55	1
1,1-Dichloroethane	ND		1.0	ug/L			07/30/15 23:55	1
1,2-Dichloroethane	ND		0.50	ug/L			07/30/15 23:55	1
1,1-Dichloroethene	ND		1.0	ug/L			07/30/15 23:55	1
1,2-Dichloropropane	ND		1.0	ug/L			07/30/15 23:55	1
1,3-Dichloropropane	ND		1.0	ug/L			07/30/15 23:55	1
2,2-Dichloropropane	ND		1.0	ug/L			07/30/15 23:55	1
1,1-Dichloropropene	ND		1.0	ug/L			07/30/15 23:55	1
Ethylbenzene	ND		1.0	ug/L			07/30/15 23:55	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: 28072015FB-1

Date Collected: 07/28/15 08:30
Date Received: 07/28/15 18:30

Lab Sample ID: 440-116350-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/30/15 23:55	1
Hexachlorobutadiene	ND		2.0	ug/L			07/30/15 23:55	1
2-Hexanone	ND		10	ug/L			07/30/15 23:55	1
Isopropylbenzene	ND		1.0	ug/L			07/30/15 23:55	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/30/15 23:55	1
Methylene Chloride	ND		5.0	ug/L			07/30/15 23:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/30/15 23:55	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/30/15 23:55	1
m,p-Xylene	ND		1.0	ug/L			07/30/15 23:55	1
Naphthalene	ND		5.0	ug/L			07/30/15 23:55	1
n-Butylbenzene	ND		2.0	ug/L			07/30/15 23:55	1
N-Propylbenzene	ND		2.0	ug/L			07/30/15 23:55	1
o-Xylene	ND		1.0	ug/L			07/30/15 23:55	1
p-Isopropyltoluene	ND		2.0	ug/L			07/30/15 23:55	1
sec-Butylbenzene	ND		2.0	ug/L			07/30/15 23:55	1
Styrene	ND		1.0	ug/L			07/30/15 23:55	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/30/15 23:55	1
tert-Butyl alcohol (TBA)	**11**		10	ug/L			07/30/15 23:55	1
tert-Butylbenzene	ND		2.0	ug/L			07/30/15 23:55	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/30/15 23:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/30/15 23:55	1
Tetrachloroethene	ND		1.0	ug/L			07/30/15 23:55	1
Toluene	ND		1.0	ug/L			07/30/15 23:55	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/30/15 23:55	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/30/15 23:55	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/30/15 23:55	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/30/15 23:55	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/30/15 23:55	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/30/15 23:55	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/30/15 23:55	1
Trichloroethene	ND		1.0	ug/L			07/30/15 23:55	1
Trichlorofluoromethane	ND		1.0	ug/L			07/30/15 23:55	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/30/15 23:55	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/30/15 23:55	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/30/15 23:55	1
Vinyl chloride	ND		0.50	ug/L			07/30/15 23:55	1
Xylenes, Total	ND		2.0	ug/L			07/30/15 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/30/15 23:55*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*07/30/15 23:55*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/30/15 23:55*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/30/15 16:12	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: EMW-05A-450-GW-28072015

Lab Sample ID: 440-116350-5
Date Collected: 07/28/15 10:15
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/31/15 00:24	1
Benzene	ND		0.50		ug/L			07/31/15 00:24	1
Bromobenzene	ND		1.0		ug/L			07/31/15 00:24	1
Bromochloromethane	ND		1.0		ug/L			07/31/15 00:24	1
Bromodichloromethane	ND		1.0		ug/L			07/31/15 00:24	1
Bromoform	ND		1.0		ug/L			07/31/15 00:24	1
Bromomethane	ND		2.0		ug/L			07/31/15 00:24	1
1,3-Butadiene	ND		1.0		ug/L			07/31/15 00:24	1
2-Butanone (MEK)	ND		10		ug/L			07/31/15 00:24	1
Carbon disulfide	ND		2.0		ug/L			07/31/15 00:24	1
Carbon tetrachloride	ND		1.0		ug/L			07/31/15 00:24	1
Chlorobenzene	ND		1.0		ug/L			07/31/15 00:24	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/31/15 00:24	1
Chloroethane	ND		1.0		ug/L			07/31/15 00:24	1
Chloroform	ND		1.0		ug/L			07/31/15 00:24	1
Chloromethane	ND		1.0		ug/L			07/31/15 00:24	1
2-Chlorotoluene	ND		2.0		ug/L			07/31/15 00:24	1
4-Chlorotoluene	ND		2.0		ug/L			07/31/15 00:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/31/15 00:24	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/31/15 00:24	1
Dibromochloromethane	ND		1.0		ug/L			07/31/15 00:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/31/15 00:24	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/31/15 00:24	1
Dibromomethane	ND		1.0		ug/L			07/31/15 00:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/31/15 00:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/31/15 00:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/31/15 00:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/31/15 00:24	1
1,1-Dichloroethane	ND		1.0		ug/L			07/31/15 00:24	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/15 00:24	1
1,1-Dichloroethene	ND		1.0		ug/L			07/31/15 00:24	1
1,2-Dichloropropane	ND		1.0		ug/L			07/31/15 00:24	1
1,3-Dichloropropane	ND		1.0		ug/L			07/31/15 00:24	1
2,2-Dichloropropane	ND		1.0		ug/L			07/31/15 00:24	1
1,1-Dichloropropene	ND		1.0		ug/L			07/31/15 00:24	1
Ethylbenzene	ND		1.0		ug/L			07/31/15 00:24	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/31/15 00:24	1
Hexachlorobutadiene	ND		2.0		ug/L			07/31/15 00:24	1
2-Hexanone	ND		10		ug/L			07/31/15 00:24	1
Isopropylbenzene	ND		1.0		ug/L			07/31/15 00:24	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/31/15 00:24	1
Methylene Chloride	ND		5.0		ug/L			07/31/15 00:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/31/15 00:24	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/31/15 00:24	1
m,p-Xylene	ND		1.0		ug/L			07/31/15 00:24	1
Naphthalene	ND		5.0		ug/L			07/31/15 00:24	1
n-Butylbenzene	ND		2.0		ug/L			07/31/15 00:24	1
N-Propylbenzene	ND		2.0		ug/L			07/31/15 00:24	1
o-Xylene	ND		1.0		ug/L			07/31/15 00:24	1

Client Sample ID: EMW-05A-450-GW-28072015 — Lab Sample ID: 440-116350-5

Date Collected: 07/28/15 10:15 — **Matrix: Water**
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			07/31/15 00:24	1
sec-Butylbenzene	ND		2.0	ug/L			07/31/15 00:24	1
Styrene	ND		1.0	ug/L			07/31/15 00:24	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/31/15 00:24	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/31/15 00:24	1
tert-Butylbenzene	ND		2.0	ug/L			07/31/15 00:24	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/31/15 00:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/31/15 00:24	1
Tetrachloroethene	ND		1.0	ug/L			07/31/15 00:24	1
Toluene	**1.3**		1.0	ug/L			07/31/15 00:24	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/31/15 00:24	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/31/15 00:24	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/31/15 00:24	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/31/15 00:24	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/31/15 00:24	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/31/15 00:24	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/31/15 00:24	1
Trichloroethene	**1.1**		1.0	ug/L			07/31/15 00:24	1
Trichlorofluoromethane	ND		1.0	ug/L			07/31/15 00:24	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/31/15 00:24	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/31/15 00:24	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/31/15 00:24	1
Vinyl chloride	ND		0.50	ug/L			07/31/15 00:24	1
Xylenes, Total	ND		2.0	ug/L			07/31/15 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*07/31/15 00:24*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*07/31/15 00:24*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/31/15 00:24*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**130**		30	ug/L			07/31/15 13:22	10

Client Sample ID: EMW-05B-612-GW-28072015 — Lab Sample ID: 440-116350-6

Date Collected: 07/28/15 10:00 — **Matrix: Water**
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/31/15 00:52	1
Benzene	ND		0.50	ug/L			07/31/15 00:52	1
Bromobenzene	ND		1.0	ug/L			07/31/15 00:52	1
Bromochloromethane	ND		1.0	ug/L			07/31/15 00:52	1
Bromodichloromethane	ND		1.0	ug/L			07/31/15 00:52	1
Bromoform	ND		1.0	ug/L			07/31/15 00:52	1
Bromomethane	ND		2.0	ug/L			07/31/15 00:52	1
1,3-Butadiene	ND		1.0	ug/L			07/31/15 00:52	1
2-Butanone (MEK)	ND		10	ug/L			07/31/15 00:52	1
Carbon disulfide	ND		2.0	ug/L			07/31/15 00:52	1

Client Sample ID: EMW-05B-612-GW-28072015

Lab Sample ID: 440-116350-6

Date Collected: 07/28/15 10:00

Matrix: Water

Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0		ug/L			07/31/15 00:52	1
Chlorobenzene	ND		1.0		ug/L			07/31/15 00:52	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/31/15 00:52	1
Chloroethane	ND		1.0		ug/L			07/31/15 00:52	1
Chloroform	ND		1.0		ug/L			07/31/15 00:52	1
Chloromethane	ND		1.0		ug/L			07/31/15 00:52	1
2-Chlorotoluene	ND		2.0		ug/L			07/31/15 00:52	1
4-Chlorotoluene	ND		2.0		ug/L			07/31/15 00:52	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/31/15 00:52	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/31/15 00:52	1
Dibromochloromethane	ND		1.0		ug/L			07/31/15 00:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/31/15 00:52	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/31/15 00:52	1
Dibromomethane	ND		1.0		ug/L			07/31/15 00:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/31/15 00:52	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/31/15 00:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/31/15 00:52	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/31/15 00:52	1
1,1-Dichloroethane	ND		1.0		ug/L			07/31/15 00:52	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/15 00:52	1
1,1-Dichloroethene	ND		1.0		ug/L			07/31/15 00:52	1
1,2-Dichloropropane	ND		1.0		ug/L			07/31/15 00:52	1
1,3-Dichloropropane	ND		1.0		ug/L			07/31/15 00:52	1
2,2-Dichloropropane	ND		1.0		ug/L			07/31/15 00:52	1
1,1-Dichloropropene	ND		1.0		ug/L			07/31/15 00:52	1
Ethylbenzene	ND		1.0		ug/L			07/31/15 00:52	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/31/15 00:52	1
Hexachlorobutadiene	ND		2.0		ug/L			07/31/15 00:52	1
2-Hexanone	ND		10		ug/L			07/31/15 00:52	1
Isopropylbenzene	ND		1.0		ug/L			07/31/15 00:52	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/31/15 00:52	1
Methylene Chloride	ND		5.0		ug/L			07/31/15 00:52	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/31/15 00:52	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/31/15 00:52	1
m,p-Xylene	ND		1.0		ug/L			07/31/15 00:52	1
Naphthalene	ND		5.0		ug/L			07/31/15 00:52	1
n-Butylbenzene	ND		2.0		ug/L			07/31/15 00:52	1
N-Propylbenzene	ND		2.0		ug/L			07/31/15 00:52	1
o-Xylene	ND		1.0		ug/L			07/31/15 00:52	1
p-Isopropyltoluene	ND		2.0		ug/L			07/31/15 00:52	1
sec-Butylbenzene	ND		2.0		ug/L			07/31/15 00:52	1
Styrene	ND		1.0		ug/L			07/31/15 00:52	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/31/15 00:52	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/15 00:52	1
tert-Butylbenzene	ND		2.0		ug/L			07/31/15 00:52	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/31/15 00:52	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/31/15 00:52	1
Tetrachloroethene	ND		1.0		ug/L			07/31/15 00:52	1
Toluene	ND		1.0		ug/L			07/31/15 00:52	1

Client Sample ID: EMW-05B-612-GW-28072015

Lab Sample ID: 440-116350-6

Date Collected: 07/28/15 10:00
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/31/15 00:52	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/31/15 00:52	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/31/15 00:52	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/31/15 00:52	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/31/15 00:52	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/31/15 00:52	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/31/15 00:52	1
Trichloroethene	ND		1.0	ug/L			07/31/15 00:52	1
Trichlorofluoromethane	ND		1.0	ug/L			07/31/15 00:52	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/31/15 00:52	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/31/15 00:52	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/31/15 00:52	1
Vinyl chloride	ND		0.50	ug/L			07/31/15 00:52	1
Xylenes, Total	ND		2.0	ug/L			07/31/15 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/31/15 00:52*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*07/31/15 00:52*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/31/15 00:52*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/30/15 16:46	1

Client Sample ID: EMW-05C-720-GW-28072015

Lab Sample ID: 440-116350-7

Date Collected: 07/28/15 09:30
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/31/15 01:20	1
Benzene	ND		0.50	ug/L			07/31/15 01:20	1
Bromobenzene	ND		1.0	ug/L			07/31/15 01:20	1
Bromochloromethane	ND		1.0	ug/L			07/31/15 01:20	1
Bromodichloromethane	ND		1.0	ug/L			07/31/15 01:20	1
Bromoform	ND		1.0	ug/L			07/31/15 01:20	1
Bromomethane	ND		2.0	ug/L			07/31/15 01:20	1
1,3-Butadiene	ND		1.0	ug/L			07/31/15 01:20	1
2-Butanone (MEK)	ND		10	ug/L			07/31/15 01:20	1
Carbon disulfide	ND		2.0	ug/L			07/31/15 01:20	1
Carbon tetrachloride	ND		1.0	ug/L			07/31/15 01:20	1
Chlorobenzene	ND		1.0	ug/L			07/31/15 01:20	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/31/15 01:20	1
Chloroethane	ND		1.0	ug/L			07/31/15 01:20	1
Chloroform	ND		1.0	ug/L			07/31/15 01:20	1
Chloromethane	ND		1.0	ug/L			07/31/15 01:20	1
2-Chlorotoluene	ND		2.0	ug/L			07/31/15 01:20	1
4-Chlorotoluene	ND		2.0	ug/L			07/31/15 01:20	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/31/15 01:20	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/31/15 01:20	1

Client Sample ID: EMW-05C-720-GW-28072015
Date Collected: 07/28/15 09:30
Date Received: 07/28/15 18:30

Lab Sample ID: 440-116350-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	ug/L			07/31/15 01:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/31/15 01:20	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/31/15 01:20	1
Dibromomethane	ND		1.0	ug/L			07/31/15 01:20	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/31/15 01:20	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/31/15 01:20	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/31/15 01:20	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/31/15 01:20	1
1,1-Dichloroethane	ND		1.0	ug/L			07/31/15 01:20	1
1,2-Dichloroethane	ND		0.50	ug/L			07/31/15 01:20	1
1,1-Dichloroethene	ND		1.0	ug/L			07/31/15 01:20	1
1,2-Dichloropropane	ND		1.0	ug/L			07/31/15 01:20	1
1,3-Dichloropropane	ND		1.0	ug/L			07/31/15 01:20	1
2,2-Dichloropropane	ND		1.0	ug/L			07/31/15 01:20	1
1,1-Dichloropropene	ND		1.0	ug/L			07/31/15 01:20	1
Ethylbenzene	ND		1.0	ug/L			07/31/15 01:20	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/31/15 01:20	1
Hexachlorobutadiene	ND		2.0	ug/L			07/31/15 01:20	1
2-Hexanone	ND		10	ug/L			07/31/15 01:20	1
Isopropylbenzene	ND		1.0	ug/L			07/31/15 01:20	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/31/15 01:20	1
Methylene Chloride	ND		5.0	ug/L			07/31/15 01:20	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/31/15 01:20	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/31/15 01:20	1
m,p-Xylene	ND		1.0	ug/L			07/31/15 01:20	1
Naphthalene	ND		5.0	ug/L			07/31/15 01:20	1
n-Butylbenzene	ND		2.0	ug/L			07/31/15 01:20	1
N-Propylbenzene	ND		2.0	ug/L			07/31/15 01:20	1
o-Xylene	ND		1.0	ug/L			07/31/15 01:20	1
p-Isopropyltoluene	ND		2.0	ug/L			07/31/15 01:20	1
sec-Butylbenzene	ND		2.0	ug/L			07/31/15 01:20	1
Styrene	ND		1.0	ug/L			07/31/15 01:20	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/31/15 01:20	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/31/15 01:20	1
tert-Butylbenzene	ND		2.0	ug/L			07/31/15 01:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/31/15 01:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/31/15 01:20	1
Tetrachloroethene	ND		1.0	ug/L			07/31/15 01:20	1
Toluene	**2.2**		1.0	ug/L			07/31/15 01:20	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/31/15 01:20	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/31/15 01:20	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/31/15 01:20	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/31/15 01:20	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/31/15 01:20	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/31/15 01:20	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/31/15 01:20	1
Trichloroethene	ND		1.0	ug/L			07/31/15 01:20	1
Trichlorofluoromethane	ND		1.0	ug/L			07/31/15 01:20	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/31/15 01:20	1

Client Sample ID: EMW-05C-720-GW-28072015

Lab Sample ID: 440-116350-7
Date Collected: 07/28/15 09:30
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/31/15 01:20	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/31/15 01:20	1
Vinyl chloride	ND		0.50	ug/L			07/31/15 01:20	1
Xylenes, Total	ND		2.0	ug/L			07/31/15 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/31/15 01:20*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*07/31/15 01:20*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/31/15 01:20*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/30/15 17:03	1

Client Sample ID: PW-3-490-GW-28072015

Lab Sample ID: 440-116350-8
Date Collected: 07/28/15 10:35
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/31/15 23:00	1
Benzene	ND		0.50	ug/L			07/31/15 23:00	1
Bromobenzene	ND		1.0	ug/L			07/31/15 23:00	1
Bromochloromethane	ND		1.0	ug/L			07/31/15 23:00	1
Bromodichloromethane	ND		1.0	ug/L			07/31/15 23:00	1
Bromoform	ND		1.0	ug/L			07/31/15 23:00	1
Bromomethane	ND		2.0	ug/L			07/31/15 23:00	1
1,3-Butadiene	ND		1.0	ug/L			07/31/15 23:00	1
2-Butanone (MEK)	ND		10	ug/L			07/31/15 23:00	1
Carbon disulfide	ND		2.0	ug/L			07/31/15 23:00	1
Carbon tetrachloride	ND		1.0	ug/L			07/31/15 23:00	1
Chlorobenzene	ND		1.0	ug/L			07/31/15 23:00	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/31/15 23:00	1
Chloroethane	ND		1.0	ug/L			07/31/15 23:00	1
Chloroform	**1.6**		1.0	ug/L			07/31/15 23:00	1
Chloromethane	ND		1.0	ug/L			07/31/15 23:00	1
2-Chlorotoluene	ND		2.0	ug/L			07/31/15 23:00	1
4-Chlorotoluene	ND		2.0	ug/L			07/31/15 23:00	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/31/15 23:00	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/31/15 23:00	1
Dibromochloromethane	ND		1.0	ug/L			07/31/15 23:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/31/15 23:00	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/31/15 23:00	1
Dibromomethane	ND		1.0	ug/L			07/31/15 23:00	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/31/15 23:00	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/31/15 23:00	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/31/15 23:00	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/31/15 23:00	1
1,1-Dichloroethane	ND		1.0	ug/L			07/31/15 23:00	1
1,2-Dichloroethane	ND		0.50	ug/L			07/31/15 23:00	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: PW-3-490-GW-28072015

Lab Sample ID: 440-116350-8

Date Collected: 07/28/15 10:35
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	ug/L			07/31/15 23:00	1
1,2-Dichloropropane	ND		1.0	ug/L			07/31/15 23:00	1
1,3-Dichloropropane	ND		1.0	ug/L			07/31/15 23:00	1
2,2-Dichloropropane	ND		1.0	ug/L			07/31/15 23:00	1
1,1-Dichloropropene	ND		1.0	ug/L			07/31/15 23:00	1
Ethylbenzene	ND		1.0	ug/L			07/31/15 23:00	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/31/15 23:00	1
Hexachlorobutadiene	ND		2.0	ug/L			07/31/15 23:00	1
2-Hexanone	ND		10	ug/L			07/31/15 23:00	1
Isopropylbenzene	ND		1.0	ug/L			07/31/15 23:00	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/31/15 23:00	1
Methylene Chloride	ND		5.0	ug/L			07/31/15 23:00	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/31/15 23:00	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/31/15 23:00	1
m,p-Xylene	ND		1.0	ug/L			07/31/15 23:00	1
Naphthalene	ND		5.0	ug/L			07/31/15 23:00	1
n-Butylbenzene	ND		2.0	ug/L			07/31/15 23:00	1
N-Propylbenzene	ND		2.0	ug/L			07/31/15 23:00	1
o-Xylene	ND		1.0	ug/L			07/31/15 23:00	1
p-Isopropyltoluene	ND		2.0	ug/L			07/31/15 23:00	1
sec-Butylbenzene	ND		2.0	ug/L			07/31/15 23:00	1
Styrene	ND		1.0	ug/L			07/31/15 23:00	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/31/15 23:00	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/31/15 23:00	1
tert-Butylbenzene	ND		2.0	ug/L			07/31/15 23:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/31/15 23:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/31/15 23:00	1
Tetrachloroethene	ND		1.0	ug/L			07/31/15 23:00	1
Toluene	ND		1.0	ug/L			07/31/15 23:00	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/31/15 23:00	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/31/15 23:00	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/31/15 23:00	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/31/15 23:00	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/31/15 23:00	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/31/15 23:00	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/31/15 23:00	1
Trichloroethene	**6.4**		1.0	ug/L			07/31/15 23:00	1
Trichlorofluoromethane	ND		1.0	ug/L			07/31/15 23:00	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/31/15 23:00	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/31/15 23:00	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/31/15 23:00	1
Vinyl chloride	ND		0.50	ug/L			07/31/15 23:00	1
Xylenes, Total	ND		2.0	ug/L			07/31/15 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/31/15 23:00*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*07/31/15 23:00*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*07/31/15 23:00*	*1*

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: PW-3-490-GW-28072015

Lab Sample ID: 440-116350-8
Date Collected: 07/28/15 10:35
Matrix: Water
Date Received: 07/28/15 18:30

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	11		3.0	ug/L			07/30/15 17:20	1

Client Sample ID: PW-2-475-GW-28072015

Lab Sample ID: 440-116350-9
Date Collected: 07/28/15 10:50
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			08/01/15 00:28	1
Benzene	ND		0.50	ug/L			08/01/15 00:28	1
Bromobenzene	ND		1.0	ug/L			08/01/15 00:28	1
Bromochloromethane	ND		1.0	ug/L			08/01/15 00:28	1
Bromodichloromethane	ND		1.0	ug/L			08/01/15 00:28	1
Bromoform	ND		1.0	ug/L			08/01/15 00:28	1
Bromomethane	ND		2.0	ug/L			08/01/15 00:28	1
1,3-Butadiene	ND		1.0	ug/L			08/01/15 00:28	1
2-Butanone (MEK)	ND		10	ug/L			08/01/15 00:28	1
Carbon disulfide	ND		2.0	ug/L			08/01/15 00:28	1
Carbon tetrachloride	ND		1.0	ug/L			08/01/15 00:28	1
Chlorobenzene	ND		1.0	ug/L			08/01/15 00:28	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			08/01/15 00:28	1
Chloroethane	ND		1.0	ug/L			08/01/15 00:28	1
Chloroform	ND		1.0	ug/L			08/01/15 00:28	1
Chloromethane	ND		1.0	ug/L			08/01/15 00:28	1
2-Chlorotoluene	ND		2.0	ug/L			08/01/15 00:28	1
4-Chlorotoluene	ND		2.0	ug/L			08/01/15 00:28	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			08/01/15 00:28	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			08/01/15 00:28	1
Dibromochloromethane	ND		1.0	ug/L			08/01/15 00:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			08/01/15 00:28	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			08/01/15 00:28	1
Dibromomethane	ND		1.0	ug/L			08/01/15 00:28	1
1,2-Dichlorobenzene	ND		1.0	ug/L			08/01/15 00:28	1
1,3-Dichlorobenzene	ND		1.0	ug/L			08/01/15 00:28	1
1,4-Dichlorobenzene	ND		1.0	ug/L			08/01/15 00:28	1
Dichlorodifluoromethane	ND		1.0	ug/L			08/01/15 00:28	1
1,1-Dichloroethane	ND		1.0	ug/L			08/01/15 00:28	1
1,2-Dichloroethane	ND		0.50	ug/L			08/01/15 00:28	1
1,1-Dichloroethene	ND		1.0	ug/L			08/01/15 00:28	1
1,2-Dichloropropane	ND		1.0	ug/L			08/01/15 00:28	1
1,3-Dichloropropane	ND		1.0	ug/L			08/01/15 00:28	1
2,2-Dichloropropane	ND		1.0	ug/L			08/01/15 00:28	1
1,1-Dichloropropene	ND		1.0	ug/L			08/01/15 00:28	1
Ethylbenzene	ND		1.0	ug/L			08/01/15 00:28	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			08/01/15 00:28	1
Hexachlorobutadiene	ND		2.0	ug/L			08/01/15 00:28	1
2-Hexanone	ND		10	ug/L			08/01/15 00:28	1
Isopropylbenzene	ND		1.0	ug/L			08/01/15 00:28	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			08/01/15 00:28	1
Methylene Chloride	ND		5.0	ug/L			08/01/15 00:28	1

Client Sample ID: PW-2-475-GW-28072015

Lab Sample ID: 440-116350-9

Date Collected: 07/28/15 10:50
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			08/01/15 00:28	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			08/01/15 00:28	1
m,p-Xylene	ND		1.0	ug/L			08/01/15 00:28	1
Naphthalene	ND		5.0	ug/L			08/01/15 00:28	1
n-Butylbenzene	ND		2.0	ug/L			08/01/15 00:28	1
N-Propylbenzene	ND		2.0	ug/L			08/01/15 00:28	1
o-Xylene	ND		1.0	ug/L			08/01/15 00:28	1
p-Isopropyltoluene	ND		2.0	ug/L			08/01/15 00:28	1
sec-Butylbenzene	ND		2.0	ug/L			08/01/15 00:28	1
Styrene	ND		1.0	ug/L			08/01/15 00:28	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			08/01/15 00:28	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/01/15 00:28	1
tert-Butylbenzene	ND		2.0	ug/L			08/01/15 00:28	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			08/01/15 00:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/01/15 00:28	1
Tetrachloroethene	ND		1.0	ug/L			08/01/15 00:28	1
Toluene	ND		1.0	ug/L			08/01/15 00:28	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			08/01/15 00:28	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/01/15 00:28	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/01/15 00:28	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			08/01/15 00:28	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/01/15 00:28	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/01/15 00:28	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/01/15 00:28	1
Trichloroethene	**150**		1.0	ug/L			08/01/15 00:28	1
Trichlorofluoromethane	ND		1.0	ug/L			08/01/15 00:28	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/01/15 00:28	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/01/15 00:28	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/01/15 00:28	1
Vinyl chloride	ND		0.50	ug/L			08/01/15 00:28	1
Xylenes, Total	ND		2.0	ug/L			08/01/15 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/01/15 00:28*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*08/01/15 00:28*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*08/01/15 00:28*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**87**		3.0	ug/L			07/30/15 17:36	1

Client Sample ID: PW-4-490-GW-28072015

Lab Sample ID: 440-116350-10

Date Collected: 07/28/15 11:20
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			08/01/15 00:57	1
Benzene	ND		0.50	ug/L			08/01/15 00:57	1
Bromobenzene	ND		1.0	ug/L			08/01/15 00:57	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: PW-4-490-GW-28072015

Lab Sample ID: 440-116350-10

Date Collected: 07/28/15 11:20
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		1.0	ug/L			08/01/15 00:57	1
Bromodichloromethane	ND		1.0	ug/L			08/01/15 00:57	1
Bromoform	ND		1.0	ug/L			08/01/15 00:57	1
Bromomethane	ND		2.0	ug/L			08/01/15 00:57	1
1,3-Butadiene	ND		1.0	ug/L			08/01/15 00:57	1
2-Butanone (MEK)	ND		10	ug/L			08/01/15 00:57	1
Carbon disulfide	ND		2.0	ug/L			08/01/15 00:57	1
Carbon tetrachloride	ND		1.0	ug/L			08/01/15 00:57	1
Chlorobenzene	ND		1.0	ug/L			08/01/15 00:57	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			08/01/15 00:57	1
Chloroethane	ND		1.0	ug/L			08/01/15 00:57	1
Chloroform	ND		1.0	ug/L			08/01/15 00:57	1
Chloromethane	ND		1.0	ug/L			08/01/15 00:57	1
2-Chlorotoluene	ND		2.0	ug/L			08/01/15 00:57	1
4-Chlorotoluene	ND		2.0	ug/L			08/01/15 00:57	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			08/01/15 00:57	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			08/01/15 00:57	1
Dibromochloromethane	ND		1.0	ug/L			08/01/15 00:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			08/01/15 00:57	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			08/01/15 00:57	1
Dibromomethane	ND		1.0	ug/L			08/01/15 00:57	1
1,2-Dichlorobenzene	ND		1.0	ug/L			08/01/15 00:57	1
1,3-Dichlorobenzene	ND		1.0	ug/L			08/01/15 00:57	1
1,4-Dichlorobenzene	ND		1.0	ug/L			08/01/15 00:57	1
Dichlorodifluoromethane	ND		1.0	ug/L			08/01/15 00:57	1
1,1-Dichloroethane	ND		1.0	ug/L			08/01/15 00:57	1
1,2-Dichloroethane	ND		0.50	ug/L			08/01/15 00:57	1
1,1-Dichloroethene	ND		1.0	ug/L			08/01/15 00:57	1
1,2-Dichloropropane	ND		1.0	ug/L			08/01/15 00:57	1
1,3-Dichloropropane	ND		1.0	ug/L			08/01/15 00:57	1
2,2-Dichloropropane	ND		1.0	ug/L			08/01/15 00:57	1
1,1-Dichloropropene	ND		1.0	ug/L			08/01/15 00:57	1
Ethylbenzene	ND		1.0	ug/L			08/01/15 00:57	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			08/01/15 00:57	1
Hexachlorobutadiene	ND		2.0	ug/L			08/01/15 00:57	1
2-Hexanone	ND		10	ug/L			08/01/15 00:57	1
Isopropylbenzene	ND		1.0	ug/L			08/01/15 00:57	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			08/01/15 00:57	1
Methylene Chloride	ND		5.0	ug/L			08/01/15 00:57	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			08/01/15 00:57	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			08/01/15 00:57	1
m,p-Xylene	ND		1.0	ug/L			08/01/15 00:57	1
Naphthalene	ND		5.0	ug/L			08/01/15 00:57	1
n-Butylbenzene	ND		2.0	ug/L			08/01/15 00:57	1
N-Propylbenzene	ND		2.0	ug/L			08/01/15 00:57	1
o-Xylene	ND		1.0	ug/L			08/01/15 00:57	1
p-Isopropyltoluene	ND		2.0	ug/L			08/01/15 00:57	1
sec-Butylbenzene	ND		2.0	ug/L			08/01/15 00:57	1
Styrene	ND		1.0	ug/L			08/01/15 00:57	1

Client Sample ID: PW-4-490-GW-28072015

Lab Sample ID: 440-116350-10

Date Collected: 07/28/15 11:20
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			08/01/15 00:57	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/01/15 00:57	1
tert-Butylbenzene	ND		2.0	ug/L			08/01/15 00:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			08/01/15 00:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/01/15 00:57	1
Tetrachloroethene	ND		1.0	ug/L			08/01/15 00:57	1
Toluene	ND		1.0	ug/L			08/01/15 00:57	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			08/01/15 00:57	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/01/15 00:57	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/01/15 00:57	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			08/01/15 00:57	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/01/15 00:57	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/01/15 00:57	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/01/15 00:57	1
Trichloroethene	**27**		1.0	ug/L			08/01/15 00:57	1
Trichlorofluoromethane	ND		1.0	ug/L			08/01/15 00:57	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/01/15 00:57	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/01/15 00:57	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/01/15 00:57	1
Vinyl chloride	ND		0.50	ug/L			08/01/15 00:57	1
Xylenes, Total	ND		2.0	ug/L			08/01/15 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/01/15 00:57*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*08/01/15 00:57*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*08/01/15 00:57*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**20**		3.0	ug/L			07/30/15 15:31	1

Client Sample ID: EMW-03A-418-GW-28072015

Lab Sample ID: 440-116350-11

Date Collected: 07/28/15 12:50
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			08/01/15 01:27	1
Benzene	ND		0.50	ug/L			08/01/15 01:27	1
Bromobenzene	ND		1.0	ug/L			08/01/15 01:27	1
Bromochloromethane	ND		1.0	ug/L			08/01/15 01:27	1
Bromodichloromethane	ND		1.0	ug/L			08/01/15 01:27	1
Bromoform	ND		1.0	ug/L			08/01/15 01:27	1
Bromomethane	ND		2.0	ug/L			08/01/15 01:27	1
1,3-Butadiene	ND		1.0	ug/L			08/01/15 01:27	1
2-Butanone (MEK)	ND		10	ug/L			08/01/15 01:27	1
Carbon disulfide	ND		2.0	ug/L			08/01/15 01:27	1
Carbon tetrachloride	ND		1.0	ug/L			08/01/15 01:27	1
Chlorobenzene	ND		1.0	ug/L			08/01/15 01:27	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			08/01/15 01:27	1

Client Sample ID: EMW-03A-418-GW-28072015

Lab Sample ID: 440-116350-11

Date Collected: 07/28/15 12:50

Matrix: Water

Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	ug/L			08/01/15 01:27	1
Chloroform	ND		1.0	ug/L			08/01/15 01:27	1
Chloromethane	ND		1.0	ug/L			08/01/15 01:27	1
2-Chlorotoluene	ND		2.0	ug/L			08/01/15 01:27	1
4-Chlorotoluene	ND		2.0	ug/L			08/01/15 01:27	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			08/01/15 01:27	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			08/01/15 01:27	1
Dibromochloromethane	ND		1.0	ug/L			08/01/15 01:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			08/01/15 01:27	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			08/01/15 01:27	1
Dibromomethane	ND		1.0	ug/L			08/01/15 01:27	1
1,2-Dichlorobenzene	ND		1.0	ug/L			08/01/15 01:27	1
1,3-Dichlorobenzene	ND		1.0	ug/L			08/01/15 01:27	1
1,4-Dichlorobenzene	ND		1.0	ug/L			08/01/15 01:27	1
Dichlorodifluoromethane	ND		1.0	ug/L			08/01/15 01:27	1
1,1-Dichloroethane	ND		1.0	ug/L			08/01/15 01:27	1
1,2-Dichloroethane	ND		0.50	ug/L			08/01/15 01:27	1
1,1-Dichloroethene	ND		1.0	ug/L			08/01/15 01:27	1
1,2-Dichloropropane	ND		1.0	ug/L			08/01/15 01:27	1
1,3-Dichloropropane	ND		1.0	ug/L			08/01/15 01:27	1
2,2-Dichloropropane	ND		1.0	ug/L			08/01/15 01:27	1
1,1-Dichloropropene	ND		1.0	ug/L			08/01/15 01:27	1
Ethylbenzene	ND		1.0	ug/L			08/01/15 01:27	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			08/01/15 01:27	1
Hexachlorobutadiene	ND		2.0	ug/L			08/01/15 01:27	1
2-Hexanone	ND		10	ug/L			08/01/15 01:27	1
Isopropylbenzene	ND		1.0	ug/L			08/01/15 01:27	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			08/01/15 01:27	1
Methylene Chloride	ND		5.0	ug/L			08/01/15 01:27	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			08/01/15 01:27	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			08/01/15 01:27	1
m,p-Xylene	ND		1.0	ug/L			08/01/15 01:27	1
Naphthalene	ND		5.0	ug/L			08/01/15 01:27	1
n-Butylbenzene	ND		2.0	ug/L			08/01/15 01:27	1
N-Propylbenzene	ND		2.0	ug/L			08/01/15 01:27	1
o-Xylene	ND		1.0	ug/L			08/01/15 01:27	1
p-Isopropyltoluene	ND		2.0	ug/L			08/01/15 01:27	1
sec-Butylbenzene	ND		2.0	ug/L			08/01/15 01:27	1
Styrene	ND		1.0	ug/L			08/01/15 01:27	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			08/01/15 01:27	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/01/15 01:27	1
tert-Butylbenzene	ND		2.0	ug/L			08/01/15 01:27	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			08/01/15 01:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/01/15 01:27	1
Tetrachloroethene	ND		1.0	ug/L			08/01/15 01:27	1
Toluene	**2.5**		1.0	ug/L			08/01/15 01:27	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			08/01/15 01:27	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/01/15 01:27	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/01/15 01:27	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: EMW-03A-418-GW-28072015

Lab Sample ID: 440-116350-11

Date Collected: 07/28/15 12:50
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		2.0	ug/L			08/01/15 01:27	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/01/15 01:27	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/01/15 01:27	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/01/15 01:27	1
Trichloroethene	ND		1.0	ug/L			08/01/15 01:27	1
Trichlorofluoromethane	ND		1.0	ug/L			08/01/15 01:27	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/01/15 01:27	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/01/15 01:27	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/01/15 01:27	1
Vinyl chloride	ND		0.50	ug/L			08/01/15 01:27	1
Xylenes, Total	ND		2.0	ug/L			08/01/15 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/01/15 01:27*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*08/01/15 01:27*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*08/01/15 01:27*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**31**		3.0	ug/L			07/30/15 15:49	1

Client Sample ID: EMW-03B-560-GW-28072015

Lab Sample ID: 440-116350-12

Date Collected: 07/28/15 12:15
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			08/01/15 01:56	1
Benzene	ND		0.50	ug/L			08/01/15 01:56	1
Bromobenzene	ND		1.0	ug/L			08/01/15 01:56	1
Bromochloromethane	ND		1.0	ug/L			08/01/15 01:56	1
Bromodichloromethane	ND		1.0	ug/L			08/01/15 01:56	1
Bromoform	ND		1.0	ug/L			08/01/15 01:56	1
Bromomethane	ND		2.0	ug/L			08/01/15 01:56	1
1,3-Butadiene	ND		1.0	ug/L			08/01/15 01:56	1
2-Butanone (MEK)	ND		10	ug/L			08/01/15 01:56	1
Carbon disulfide	ND		2.0	ug/L			08/01/15 01:56	1
Carbon tetrachloride	ND		1.0	ug/L			08/01/15 01:56	1
Chlorobenzene	ND		1.0	ug/L			08/01/15 01:56	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			08/01/15 01:56	1
Chloroethane	ND		1.0	ug/L			08/01/15 01:56	1
Chloroform	ND		1.0	ug/L			08/01/15 01:56	1
Chloromethane	ND		1.0	ug/L			08/01/15 01:56	1
2-Chlorotoluene	ND		2.0	ug/L			08/01/15 01:56	1
4-Chlorotoluene	ND		2.0	ug/L			08/01/15 01:56	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			08/01/15 01:56	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			08/01/15 01:56	1
Dibromochloromethane	ND		1.0	ug/L			08/01/15 01:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			08/01/15 01:56	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			08/01/15 01:56	1

Client Sample ID: EMW-03B-560-GW-28072015

Lab Sample ID: 440-116350-12

Date Collected: 07/28/15 12:15

Matrix: Water

Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0		ug/L			08/01/15 01:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/01/15 01:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/01/15 01:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/01/15 01:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/01/15 01:56	1
1,1-Dichloroethane	ND		1.0		ug/L			08/01/15 01:56	1
1,2-Dichloroethane	ND		0.50		ug/L			08/01/15 01:56	1
1,1-Dichloroethene	ND		1.0		ug/L			08/01/15 01:56	1
1,2-Dichloropropane	ND		1.0		ug/L			08/01/15 01:56	1
1,3-Dichloropropane	ND		1.0		ug/L			08/01/15 01:56	1
2,2-Dichloropropane	ND		1.0		ug/L			08/01/15 01:56	1
1,1-Dichloropropene	ND		1.0		ug/L			08/01/15 01:56	1
Ethylbenzene	ND		1.0		ug/L			08/01/15 01:56	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			08/01/15 01:56	1
Hexachlorobutadiene	ND		2.0		ug/L			08/01/15 01:56	1
2-Hexanone	ND		10		ug/L			08/01/15 01:56	1
Isopropylbenzene	ND		1.0		ug/L			08/01/15 01:56	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			08/01/15 01:56	1
Methylene Chloride	ND		5.0		ug/L			08/01/15 01:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/01/15 01:56	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/01/15 01:56	1
m,p-Xylene	ND		1.0		ug/L			08/01/15 01:56	1
Naphthalene	ND		5.0		ug/L			08/01/15 01:56	1
n-Butylbenzene	ND		2.0		ug/L			08/01/15 01:56	1
N-Propylbenzene	ND		2.0		ug/L			08/01/15 01:56	1
o-Xylene	ND		1.0		ug/L			08/01/15 01:56	1
p-Isopropyltoluene	ND		2.0		ug/L			08/01/15 01:56	1
sec-Butylbenzene	ND		2.0		ug/L			08/01/15 01:56	1
Styrene	ND		1.0		ug/L			08/01/15 01:56	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			08/01/15 01:56	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/01/15 01:56	1
tert-Butylbenzene	ND		2.0		ug/L			08/01/15 01:56	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/01/15 01:56	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/01/15 01:56	1
Tetrachloroethene	ND		1.0		ug/L			08/01/15 01:56	1
Toluene	ND		1.0		ug/L			08/01/15 01:56	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			08/01/15 01:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/01/15 01:56	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/01/15 01:56	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			08/01/15 01:56	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			08/01/15 01:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/01/15 01:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/01/15 01:56	1
Trichloroethene	ND		1.0		ug/L			08/01/15 01:56	1
Trichlorofluoromethane	ND		1.0		ug/L			08/01/15 01:56	1
1,2,3-Trichloropropane	ND		2.0		ug/L			08/01/15 01:56	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			08/01/15 01:56	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			08/01/15 01:56	1
Vinyl chloride	ND		0.50		ug/L			08/01/15 01:56	1

Client Sample ID: EMW-03B-560-GW-28072015

Lab Sample ID: 440-116350-12

Date Collected: 07/28/15 12:15
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	ug/L			08/01/15 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*08/01/15 01:56*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*08/01/15 01:56*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*08/01/15 01:56*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/30/15 16:06	1

Client Sample ID: EMW-03C-640-GW-28072015

Lab Sample ID: 440-116350-13

Date Collected: 07/28/15 11:40
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			08/01/15 02:26	1
Benzene	ND		0.50	ug/L			08/01/15 02:26	1
Bromobenzene	ND		1.0	ug/L			08/01/15 02:26	1
Bromochloromethane	ND		1.0	ug/L			08/01/15 02:26	1
Bromodichloromethane	ND		1.0	ug/L			08/01/15 02:26	1
Bromoform	ND		1.0	ug/L			08/01/15 02:26	1
Bromomethane	ND		2.0	ug/L			08/01/15 02:26	1
1,3-Butadiene	ND		1.0	ug/L			08/01/15 02:26	1
2-Butanone (MEK)	ND		10	ug/L			08/01/15 02:26	1
Carbon disulfide	ND		2.0	ug/L			08/01/15 02:26	1
Carbon tetrachloride	ND		1.0	ug/L			08/01/15 02:26	1
Chlorobenzene	ND		1.0	ug/L			08/01/15 02:26	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			08/01/15 02:26	1
Chloroethane	ND		1.0	ug/L			08/01/15 02:26	1
Chloroform	ND		1.0	ug/L			08/01/15 02:26	1
Chloromethane	ND		1.0	ug/L			08/01/15 02:26	1
2-Chlorotoluene	ND		2.0	ug/L			08/01/15 02:26	1
4-Chlorotoluene	ND		2.0	ug/L			08/01/15 02:26	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			08/01/15 02:26	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			08/01/15 02:26	1
Dibromochloromethane	ND		1.0	ug/L			08/01/15 02:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			08/01/15 02:26	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			08/01/15 02:26	1
Dibromomethane	ND		1.0	ug/L			08/01/15 02:26	1
1,2-Dichlorobenzene	ND		1.0	ug/L			08/01/15 02:26	1
1,3-Dichlorobenzene	ND		1.0	ug/L			08/01/15 02:26	1
1,4-Dichlorobenzene	ND		1.0	ug/L			08/01/15 02:26	1
Dichlorodifluoromethane	ND		1.0	ug/L			08/01/15 02:26	1
1,1-Dichloroethane	ND		1.0	ug/L			08/01/15 02:26	1
1,2-Dichloroethane	ND		0.50	ug/L			08/01/15 02:26	1
1,1-Dichloroethene	ND		1.0	ug/L			08/01/15 02:26	1
1,2-Dichloropropane	ND		1.0	ug/L			08/01/15 02:26	1
1,3-Dichloropropane	ND		1.0	ug/L			08/01/15 02:26	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: EMW-03C-640-GW-28072015

Lab Sample ID: 440-116350-13
Date Collected: 07/28/15 11:40
Matrix: Water
Date Received: 07/28/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	ug/L			08/01/15 02:26	1
1,1-Dichloropropene	ND		1.0	ug/L			08/01/15 02:26	1
Ethylbenzene	ND		1.0	ug/L			08/01/15 02:26	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			08/01/15 02:26	1
Hexachlorobutadiene	ND		2.0	ug/L			08/01/15 02:26	1
2-Hexanone	ND		10	ug/L			08/01/15 02:26	1
Isopropylbenzene	ND		1.0	ug/L			08/01/15 02:26	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			08/01/15 02:26	1
Methylene Chloride	ND		5.0	ug/L			08/01/15 02:26	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			08/01/15 02:26	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			08/01/15 02:26	1
m,p-Xylene	ND		1.0	ug/L			08/01/15 02:26	1
Naphthalene	ND		5.0	ug/L			08/01/15 02:26	1
n-Butylbenzene	ND		2.0	ug/L			08/01/15 02:26	1
N-Propylbenzene	ND		2.0	ug/L			08/01/15 02:26	1
o-Xylene	ND		1.0	ug/L			08/01/15 02:26	1
p-Isopropyltoluene	ND		2.0	ug/L			08/01/15 02:26	1
sec-Butylbenzene	ND		2.0	ug/L			08/01/15 02:26	1
Styrene	ND		1.0	ug/L			08/01/15 02:26	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			08/01/15 02:26	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/01/15 02:26	1
tert-Butylbenzene	ND		2.0	ug/L			08/01/15 02:26	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			08/01/15 02:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/01/15 02:26	1
Tetrachloroethene	ND		1.0	ug/L			08/01/15 02:26	1
Toluene	**2.4**		1.0	ug/L			08/01/15 02:26	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			08/01/15 02:26	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/01/15 02:26	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/01/15 02:26	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			08/01/15 02:26	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/01/15 02:26	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/01/15 02:26	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/01/15 02:26	1
Trichloroethene	ND		1.0	ug/L			08/01/15 02:26	1
Trichlorofluoromethane	ND		1.0	ug/L			08/01/15 02:26	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/01/15 02:26	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/01/15 02:26	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/01/15 02:26	1
Vinyl chloride	ND		0.50	ug/L			08/01/15 02:26	1
Xylenes, Total	ND		2.0	ug/L			08/01/15 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/01/15 02:26*	*1*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*08/01/15 02:26*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*08/01/15 02:26*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/30/15 16:24	1

Method Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
314.0 LL	Perchlorate (IC)	EPA	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: 28072015TB-1 — Lab Sample ID: 440-116350-1

Date Collected: 07/28/15 07:00 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270224	07/30/15 22:02	WK	TAL IRV

Client Sample ID: IN/5W-34D25-770-GW-28072015 — Lab Sample ID: 440-116350-2

Date Collected: 07/28/15 08:50 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270224	07/30/15 20:09	WK	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270047	07/30/15 15:38	CH	TAL IRV

Client Sample ID: IN/5W-34D3S-600-GW-28072015 — Lab Sample ID: 440-116350-3

Date Collected: 07/28/15 09:05 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270224	07/30/15 21:34	WK	TAL IRV
Total/NA	Analysis	314.0 LL		10	1 mL		270332	07/31/15 13:05	CH	TAL IRV

Client Sample ID: 28072015FB-1 — Lab Sample ID: 440-116350-4

Date Collected: 07/28/15 08:30 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270224	07/30/15 23:55	WK	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270047	07/30/15 16:12	CH	TAL IRV

Client Sample ID: EMW-05A-450-GW-28072015 — Lab Sample ID: 440-116350-5

Date Collected: 07/28/15 10:15 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270224	07/31/15 00:24	WK	TAL IRV
Total/NA	Analysis	314.0 LL		10	1 mL		270332	07/31/15 13:22	CH	TAL IRV

Client Sample ID: EMW-05B-612-GW-28072015 — Lab Sample ID: 440-116350-6

Date Collected: 07/28/15 10:00 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270224	07/31/15 00:52	WK	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270047	07/30/15 16:46	CH	TAL IRV

Client Sample ID: EMW-05C-720-GW-28072015 — Lab Sample ID: 440-116350-7

Date Collected: 07/28/15 09:30 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270224	07/31/15 01:20	WK	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270047	07/30/15 17:03	CH	TAL IRV

Client Sample ID: PW-3-490-GW-28072015 — Lab Sample ID: 440-116350-8

Date Collected: 07/28/15 10:35 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270477	07/31/15 23:00	WK	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270047	07/30/15 17:20	CH	TAL IRV

Client Sample ID: PW-2-475-GW-28072015 — Lab Sample ID: 440-116350-9

Date Collected: 07/28/15 10:50 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270477	08/01/15 00:28	WK	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270047	07/30/15 17:36	CH	TAL IRV

Client Sample ID: PW-4-490-GW-28072015 — Lab Sample ID: 440-116350-10

Date Collected: 07/28/15 11:20 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270477	08/01/15 00:57	WK	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270046	07/30/15 15:31	CH	TAL IRV

Client Sample ID: EMW-03A-418-GW-28072015 — Lab Sample ID: 440-116350-11

Date Collected: 07/28/15 12:50 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270477	08/01/15 01:27	WK	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270046	07/30/15 15:49	CH	TAL IRV

Client Sample ID: EMW-03B-560-GW-28072015 — Lab Sample ID: 440-116350-12

Date Collected: 07/28/15 12:15 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270477	08/01/15 01:56	WK	TAL IRV

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Client Sample ID: EMW-03B-560-GW-28072015 — Lab Sample ID: 440-116350-12

Date Collected: 07/28/15 12:15 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	314.0 LL		1	1 mL		270046	07/30/15 16:06	CH	TAL IRV

Client Sample ID: EMW-03C-640-GW-28072015 — Lab Sample ID: 440-116350-13

Date Collected: 07/28/15 11:40 — **Matrix: Water**
Date Received: 07/28/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270477	08/01/15 02:26	WK	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270046	07/30/15 16:24	CH	TAL IRV

Laboratory References:
TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-270224/4
Matrix: Water
Analysis Batch: 270224

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			07/30/15 19:12	1
Benzene	ND		0.50	ug/L			07/30/15 19:12	1
Bromobenzene	ND		1.0	ug/L			07/30/15 19:12	1
Bromochloromethane	ND		1.0	ug/L			07/30/15 19:12	1
Bromodichloromethane	ND		1.0	ug/L			07/30/15 19:12	1
Bromoform	ND		1.0	ug/L			07/30/15 19:12	1
Bromomethane	ND		2.0	ug/L			07/30/15 19:12	1
1,3-Butadiene	ND		1.0	ug/L			07/30/15 19:12	1
2-Butanone (MEK)	ND		10	ug/L			07/30/15 19:12	1
Carbon disulfide	ND		2.0	ug/L			07/30/15 19:12	1
Carbon tetrachloride	ND		1.0	ug/L			07/30/15 19:12	1
Chlorobenzene	ND		1.0	ug/L			07/30/15 19:12	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			07/30/15 19:12	1
Chloroethane	ND		1.0	ug/L			07/30/15 19:12	1
Chloroform	ND		1.0	ug/L			07/30/15 19:12	1
Chloromethane	ND		1.0	ug/L			07/30/15 19:12	1
2-Chlorotoluene	ND		2.0	ug/L			07/30/15 19:12	1
4-Chlorotoluene	ND		2.0	ug/L			07/30/15 19:12	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			07/30/15 19:12	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			07/30/15 19:12	1
Dibromochloromethane	ND		1.0	ug/L			07/30/15 19:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/30/15 19:12	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			07/30/15 19:12	1
Dibromomethane	ND		1.0	ug/L			07/30/15 19:12	1
1,2-Dichlorobenzene	ND		1.0	ug/L			07/30/15 19:12	1
1,3-Dichlorobenzene	ND		1.0	ug/L			07/30/15 19:12	1
1,4-Dichlorobenzene	ND		1.0	ug/L			07/30/15 19:12	1
Dichlorodifluoromethane	ND		1.0	ug/L			07/30/15 19:12	1
1,1-Dichloroethane	ND		1.0	ug/L			07/30/15 19:12	1
1,2-Dichloroethane	ND		0.50	ug/L			07/30/15 19:12	1
1,1-Dichloroethene	ND		1.0	ug/L			07/30/15 19:12	1
1,2-Dichloropropane	ND		1.0	ug/L			07/30/15 19:12	1
1,3-Dichloropropane	ND		1.0	ug/L			07/30/15 19:12	1
2,2-Dichloropropane	ND		1.0	ug/L			07/30/15 19:12	1
1,1-Dichloropropene	ND		1.0	ug/L			07/30/15 19:12	1
Ethylbenzene	ND		1.0	ug/L			07/30/15 19:12	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			07/30/15 19:12	1
Hexachlorobutadiene	ND		2.0	ug/L			07/30/15 19:12	1
2-Hexanone	ND		10	ug/L			07/30/15 19:12	1
Isopropylbenzene	ND		1.0	ug/L			07/30/15 19:12	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			07/30/15 19:12	1
Methylene Chloride	ND		5.0	ug/L			07/30/15 19:12	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			07/30/15 19:12	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			07/30/15 19:12	1
m,p-Xylene	ND		1.0	ug/L			07/30/15 19:12	1
Naphthalene	ND		5.0	ug/L			07/30/15 19:12	1
n-Butylbenzene	ND		2.0	ug/L			07/30/15 19:12	1
N-Propylbenzene	ND		2.0	ug/L			07/30/15 19:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-270224/4
Matrix: Water
Analysis Batch: 270224

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0	ug/L			07/30/15 19:12	1
p-Isopropyltoluene	ND		2.0	ug/L			07/30/15 19:12	1
sec-Butylbenzene	ND		2.0	ug/L			07/30/15 19:12	1
Styrene	ND		1.0	ug/L			07/30/15 19:12	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			07/30/15 19:12	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			07/30/15 19:12	1
tert-Butylbenzene	ND		2.0	ug/L			07/30/15 19:12	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			07/30/15 19:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			07/30/15 19:12	1
Tetrachloroethene	ND		1.0	ug/L			07/30/15 19:12	1
Toluene	ND		1.0	ug/L			07/30/15 19:12	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			07/30/15 19:12	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/30/15 19:12	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			07/30/15 19:12	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			07/30/15 19:12	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			07/30/15 19:12	1
1,1,1-Trichloroethane	ND		1.0	ug/L			07/30/15 19:12	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/30/15 19:12	1
Trichloroethene	ND		1.0	ug/L			07/30/15 19:12	1
Trichlorofluoromethane	ND		1.0	ug/L			07/30/15 19:12	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/30/15 19:12	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/30/15 19:12	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/30/15 19:12	1
Vinyl chloride	ND		0.50	ug/L			07/30/15 19:12	1
Xylenes, Total	ND		2.0	ug/L			07/30/15 19:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/30/15 19:12*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*07/30/15 19:12*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*07/30/15 19:12*	*1*

Lab Sample ID: LCS 440-270224/5
Matrix: Water
Analysis Batch: 270224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	28.9		ug/L		116	10 - 150
Benzene	25.0	25.9		ug/L		103	68 - 130
Bromobenzene	25.0	26.1		ug/L		104	70 - 130
Bromochloromethane	25.0	24.7		ug/L		99	70 - 130
Bromodichloromethane	25.0	25.4		ug/L		101	70 - 132
Bromoform	25.0	25.8		ug/L		103	60 - 148
Bromomethane	25.0	23.5		ug/L		94	64 - 139
2-Butanone (MEK)	25.0	30.5		ug/L		122	44 - 150
Carbon disulfide	25.0	25.0		ug/L		100	52 - 136
Carbon tetrachloride	25.0	26.0		ug/L		104	60 - 150
Chlorobenzene	25.0	24.9		ug/L		100	70 - 130
Chloroethane	25.0	23.2		ug/L		93	64 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-270224/5
Matrix: Water
Analysis Batch: 270224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	24.9		ug/L		100	70 - 130
Chloromethane	25.0	23.3		ug/L		93	47 - 140
2-Chlorotoluene	25.0	27.3		ug/L		109	70 - 130
4-Chlorotoluene	25.0	27.8		ug/L		111	70 - 130
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	70 - 133
cis-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 133
Dibromochloromethane	25.0	24.4		ug/L		98	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	25.7		ug/L		103	52 - 140
1,2-Dibromoethane (EDB)	25.0	26.0		ug/L		104	70 - 130
Dibromomethane	25.0	24.8		ug/L		99	70 - 130
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130
Dichlorodifluoromethane	25.0	19.7		ug/L		79	29 - 150
1,1-Dichloroethane	25.0	25.9		ug/L		104	64 - 130
1,2-Dichloroethane	25.0	25.3		ug/L		101	57 - 138
1,1-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
1,2-Dichloropropane	25.0	25.8		ug/L		103	67 - 130
1,3-Dichloropropane	25.0	25.5		ug/L		102	70 - 130
2,2-Dichloropropane	25.0	24.6		ug/L		98	68 - 141
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
Ethylbenzene	25.0	26.2		ug/L		105	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	26.1		ug/L		104	60 - 136
Hexachlorobutadiene	25.0	24.1		ug/L		96	10 - 150
2-Hexanone	25.0	31.9		ug/L		127	10 - 150
Isopropylbenzene	25.0	27.5		ug/L		110	70 - 136
Isopropyl Ether (DIPE)	25.0	27.1		ug/L		108	58 - 139
Methylene Chloride	25.0	25.6		ug/L		102	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	32.7		ug/L		131	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	25.9		ug/L		104	63 - 131
m,p-Xylene	25.0	26.6		ug/L		107	70 - 130
Naphthalene	25.0	25.0		ug/L		100	60 - 140
n-Butylbenzene	25.0	29.2		ug/L		117	65 - 150
N-Propylbenzene	25.0	28.1		ug/L		112	67 - 139
o-Xylene	25.0	27.1		ug/L		108	70 - 130
p-Isopropyltoluene	25.0	27.5		ug/L		110	70 - 132
sec-Butylbenzene	25.0	27.4		ug/L		109	70 - 138
Styrene	25.0	26.8		ug/L		107	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	25.5		ug/L		102	57 - 139
tert-Butyl alcohol (TBA)	250	273		ug/L		109	70 - 130
tert-Butylbenzene	25.0	27.3		ug/L		109	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.1		ug/L		100	60 - 141
1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	63 - 130
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
Toluene	25.0	26.7		ug/L		107	70 - 130
trans-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	25.9		ug/L		103	70 - 132
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		103	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-270224/5
Matrix: Water
Analysis Batch: 270224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		103	60 - 140
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	70 - 130
Trichloroethene	25.0	25.8		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	24.6		ug/L		99	60 - 150
1,2,3-Trichloropropane	25.0	27.4		ug/L		109	63 - 130
1,2,4-Trimethylbenzene	25.0	28.3		ug/L		113	70 - 135
1,3,5-Trimethylbenzene	25.0	28.1		ug/L		112	70 - 136
Vinyl chloride	25.0	24.3		ug/L		97	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
Toluene-d8 (Surr)	*104*		*80 - 128*

Lab Sample ID: 440-116350-2 MS
Matrix: Water
Analysis Batch: 270224

Client Sample ID: IN/5W-34D25-770-GW-28072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	27.7		ug/L		111	10 - 150
Benzene	ND		25.0	26.2		ug/L		105	66 - 130
Bromobenzene	ND		25.0	25.5		ug/L		102	70 - 130
Bromochloromethane	ND		25.0	24.0		ug/L		96	70 - 130
Bromodichloromethane	ND		25.0	24.1		ug/L		97	70 - 138
Bromoform	ND		25.0	25.8		ug/L		103	59 - 150
Bromomethane	ND		25.0	24.8		ug/L		99	62 - 131
2-Butanone (MEK)	ND		25.0	28.4		ug/L		113	48 - 140
Carbon disulfide	ND		25.0	25.5		ug/L		102	49 - 140
Carbon tetrachloride	ND		25.0	27.4		ug/L		110	60 - 150
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130
Chloroethane	ND		25.0	23.5		ug/L		94	68 - 130
Chloroform	ND		25.0	25.3		ug/L		101	70 - 130
Chloromethane	ND		25.0	23.9		ug/L		96	39 - 144
2-Chlorotoluene	ND		25.0	27.8		ug/L		111	70 - 130
4-Chlorotoluene	ND		25.0	27.9		ug/L		112	70 - 130
cis-1,2-Dichloroethene	ND		25.0	25.8		ug/L		103	70 - 130
cis-1,3-Dichloropropene	ND		25.0	26.9		ug/L		107	70 - 133
Dibromochloromethane	ND		25.0	23.7		ug/L		95	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	23.8		ug/L		95	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	25.3		ug/L		101	70 - 131
Dibromomethane	ND		25.0	23.9		ug/L		96	70 - 130
1,2-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.4		ug/L		105	70 - 130
1,4-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
Dichlorodifluoromethane	ND		25.0	19.6		ug/L		79	25 - 142
1,1-Dichloroethane	ND		25.0	26.2		ug/L		105	65 - 130
1,2-Dichloroethane	ND		25.0	24.4		ug/L		97	56 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116350-2 MS
Matrix: Water
Analysis Batch: 270224

Client Sample ID: IN/5W-34D25-770-GW-28072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		25.0	25.6		ug/L		102	70 - 130
1,2-Dichloropropane	ND		25.0	25.5		ug/L		102	69 - 130
1,3-Dichloropropane	ND		25.0	25.0		ug/L		100	70 - 130
2,2-Dichloropropane	ND		25.0	28.1		ug/L		112	69 - 138
1,1-Dichloropropene	ND		25.0	26.6		ug/L		107	64 - 130
Ethylbenzene	ND		25.0	27.6		ug/L		110	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.7		ug/L		99	70 - 130
Hexachlorobutadiene	ND		25.0	24.9		ug/L		99	10 - 150
2-Hexanone	ND		25.0	30.2		ug/L		121	10 - 150
Isopropylbenzene	ND		25.0	28.6		ug/L		114	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	26.0		ug/L		104	64 - 138
Methylene Chloride	ND		25.0	23.5		ug/L		94	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	32.7		ug/L		131	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.4		ug/L		98	70 - 130
m,p-Xylene	ND		25.0	28.0		ug/L		112	70 - 133
Naphthalene	ND		25.0	25.0		ug/L		100	60 - 140
n-Butylbenzene	ND		25.0	30.3		ug/L		121	61 - 149
N-Propylbenzene	ND		25.0	29.5		ug/L		118	66 - 135
o-Xylene	ND		25.0	27.8		ug/L		111	70 - 133
p-Isopropyltoluene	ND		25.0	28.5		ug/L		114	70 - 130
sec-Butylbenzene	ND		25.0	28.8		ug/L		115	67 - 134
Styrene	ND		25.0	27.1		ug/L		109	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	23.3		ug/L		93	68 - 133
tert-Butyl alcohol (TBA)	ND		250	266		ug/L		106	70 - 130
tert-Butylbenzene	ND		25.0	28.5		ug/L		114	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	25.1		ug/L		100	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	25.7		ug/L		103	63 - 130
Tetrachloroethene	ND		25.0	26.9		ug/L		108	70 - 137
Toluene	ND		25.0	27.7		ug/L		111	70 - 130
trans-1,2-Dichloroethene	ND		25.0	26.0		ug/L		104	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.5		ug/L		102	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	24.6		ug/L		98	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140
1,1,1-Trichloroethane	ND		25.0	26.1		ug/L		104	70 - 130
1,1,2-Trichloroethane	ND		25.0	24.9		ug/L		100	70 - 130
Trichloroethene	ND		25.0	27.1		ug/L		106	70 - 130
Trichlorofluoromethane	ND		25.0	25.8		ug/L		103	60 - 150
1,2,3-Trichloropropane	ND		25.0	26.9		ug/L		108	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	28.9		ug/L		116	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	29.2		ug/L		117	70 - 130
Vinyl chloride	ND		25.0	25.4		ug/L		101	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*
Toluene-d8 (Surr)	*105*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116350-2 MSD
Matrix: Water
Analysis Batch: 270224

Client Sample ID: IN/5W-34D25-770-GW-28072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	26.0		ug/L		104	10 - 150	6	35
Benzene	ND		25.0	26.6		ug/L		107	66 - 130	2	20
Bromobenzene	ND		25.0	26.5		ug/L		106	70 - 130	4	20
Bromochloromethane	ND		25.0	24.4		ug/L		97	70 - 130	2	25
Bromodichloromethane	ND		25.0	24.5		ug/L		98	70 - 138	2	20
Bromoform	ND		25.0	26.2		ug/L		105	59 - 150	1	25
Bromomethane	ND		25.0	25.3		ug/L		101	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	29.3		ug/L		117	48 - 140	3	40
Carbon disulfide	ND		25.0	26.2		ug/L		105	49 - 140	3	20
Carbon tetrachloride	ND		25.0	27.5		ug/L		110	60 - 150	1	25
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	0	20
Chloroethane	ND		25.0	24.1		ug/L		96	68 - 130	2	25
Chloroform	ND		25.0	25.5		ug/L		102	70 - 130	1	20
Chloromethane	ND		25.0	25.0		ug/L		100	39 - 144	5	25
2-Chlorotoluene	ND		25.0	28.4		ug/L		114	70 - 130	2	20
4-Chlorotoluene	ND		25.0	29.2		ug/L		117	70 - 130	5	20
cis-1,2-Dichloroethene	ND		25.0	26.2		ug/L		105	70 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	27.4		ug/L		109	70 - 133	2	20
Dibromochloromethane	ND		25.0	23.8		ug/L		95	70 - 148	1	25
1,2-Dibromo-3-Chloropropane	ND		25.0	26.0		ug/L		104	48 - 140	9	30
1,2-Dibromoethane (EDB)	ND		25.0	26.9		ug/L		108	70 - 131	6	25
Dibromomethane	ND		25.0	24.6		ug/L		98	70 - 130	3	25
1,2-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	27.1		ug/L		108	70 - 130	3	20
Dichlorodifluoromethane	ND		25.0	20.2		ug/L		81	25 - 142	3	30
1,1-Dichloroethane	ND		25.0	25.9		ug/L		104	65 - 130	1	20
1,2-Dichloroethane	ND		25.0	24.5		ug/L		98	56 - 146	0	20
1,1-Dichloroethene	ND		25.0	25.4		ug/L		101	70 - 130	1	20
1,2-Dichloropropane	ND		25.0	26.2		ug/L		105	69 - 130	2	20
1,3-Dichloropropane	ND		25.0	25.4		ug/L		102	70 - 130	2	25
2,2-Dichloropropane	ND		25.0	27.4		ug/L		110	69 - 138	2	25
1,1-Dichloropropene	ND		25.0	27.7		ug/L		111	64 - 130	4	20
Ethylbenzene	ND		25.0	27.8		ug/L		111	70 - 130	1	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.9		ug/L		99	70 - 130	1	25
Hexachlorobutadiene	ND		25.0	25.6		ug/L		102	10 - 150	3	20
2-Hexanone	ND		25.0	30.7		ug/L		123	10 - 150	2	35
Isopropylbenzene	ND		25.0	28.9		ug/L		115	70 - 132	1	20
Isopropyl Ether (DIPE)	ND		25.0	26.6		ug/L		106	64 - 138	2	25
Methylene Chloride	ND		25.0	24.4		ug/L		97	52 - 130	4	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	33.3		ug/L		133	52 - 150	2	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.9		ug/L		99	70 - 130	2	25
m,p-Xylene	ND		25.0	28.2		ug/L		113	70 - 133	1	25
Naphthalene	ND		25.0	25.4		ug/L		102	60 - 140	2	30
n-Butylbenzene	ND		25.0	30.9		ug/L		124	61 - 149	2	20
N-Propylbenzene	ND		25.0	30.1		ug/L		120	66 - 135	2	20
o-Xylene	ND		25.0	27.6		ug/L		110	70 - 133	1	20
p-Isopropyltoluene	ND		25.0	29.3		ug/L		117	70 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116350-2 MSD
Matrix: Water
Analysis Batch: 270224

Client Sample ID: IN/5W-34D25-770-GW-28072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	29.4		ug/L		118	67 - 134	2	20
Styrene	ND		25.0	27.3		ug/L		109	29 - 150	1	35
Tert-amyl-methyl ether (TAME)	ND		25.0	23.9		ug/L		95	68 - 133	2	30
tert-Butyl alcohol (TBA)	ND		250	268		ug/L		107	70 - 130	1	25
tert-Butylbenzene	ND		25.0	29.2		ug/L		117	70 - 130	3	20
1,1,1,2-Tetrachloroethane	ND		25.0	25.3		ug/L		101	60 - 149	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.0		ug/L		104	63 - 130	1	30
Tetrachloroethene	ND		25.0	27.2		ug/L		109	70 - 137	1	20
Toluene	ND		25.0	28.0		ug/L		112	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	25.4		ug/L		101	70 - 130	3	20
trans-1,3-Dichloropropene	ND		25.0	26.3		ug/L		105	70 - 138	3	25
1,2,3-Trichlorobenzene	ND		25.0	25.1		ug/L		100	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	26.4		ug/L		106	60 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	26.6		ug/L		106	70 - 130	2	20
1,1,2-Trichloroethane	ND		25.0	25.5		ug/L		102	70 - 130	2	25
Trichloroethene	ND		25.0	27.3		ug/L		106	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	25.6		ug/L		102	60 - 150	1	25
1,2,3-Trichloropropane	ND		25.0	27.4		ug/L		110	60 - 130	2	30
1,2,4-Trimethylbenzene	ND		25.0	29.7		ug/L		119	70 - 130	3	25
1,3,5-Trimethylbenzene	ND		25.0	29.8		ug/L		119	70 - 130	2	20
Vinyl chloride	ND		25.0	26.9		ug/L		107	50 - 137	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*
Toluene-d8 (Surr)	*106*		*80 - 128*

Lab Sample ID: MB 440-270477/4
Matrix: Water
Analysis Batch: 270477

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			07/31/15 20:04	1
Benzene	ND		0.50		ug/L			07/31/15 20:04	1
Bromobenzene	ND		1.0		ug/L			07/31/15 20:04	1
Bromochloromethane	ND		1.0		ug/L			07/31/15 20:04	1
Bromodichloromethane	ND		1.0		ug/L			07/31/15 20:04	1
Bromoform	ND		1.0		ug/L			07/31/15 20:04	1
Bromomethane	ND		2.0		ug/L			07/31/15 20:04	1
1,3-Butadiene	ND		1.0		ug/L			07/31/15 20:04	1
2-Butanone (MEK)	ND		10		ug/L			07/31/15 20:04	1
Carbon disulfide	ND		2.0		ug/L			07/31/15 20:04	1
Carbon tetrachloride	ND		1.0		ug/L			07/31/15 20:04	1
Chlorobenzene	ND		1.0		ug/L			07/31/15 20:04	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			07/31/15 20:04	1
Chloroethane	ND		1.0		ug/L			07/31/15 20:04	1
Chloroform	ND		1.0		ug/L			07/31/15 20:04	1
Chloromethane	ND		1.0		ug/L			07/31/15 20:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-270477/4
Matrix: Water
Analysis Batch: 270477

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0		ug/L			07/31/15 20:04	1
4-Chlorotoluene	ND		2.0		ug/L			07/31/15 20:04	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/31/15 20:04	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			07/31/15 20:04	1
Dibromochloromethane	ND		1.0		ug/L			07/31/15 20:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/31/15 20:04	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			07/31/15 20:04	1
Dibromomethane	ND		1.0		ug/L			07/31/15 20:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/31/15 20:04	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/31/15 20:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/31/15 20:04	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/31/15 20:04	1
1,1-Dichloroethane	ND		1.0		ug/L			07/31/15 20:04	1
1,2-Dichloroethane	ND		0.50		ug/L			07/31/15 20:04	1
1,1-Dichloroethene	ND		1.0		ug/L			07/31/15 20:04	1
1,2-Dichloropropane	ND		1.0		ug/L			07/31/15 20:04	1
1,3-Dichloropropane	ND		1.0		ug/L			07/31/15 20:04	1
2,2-Dichloropropane	ND		1.0		ug/L			07/31/15 20:04	1
1,1-Dichloropropene	ND		1.0		ug/L			07/31/15 20:04	1
Ethylbenzene	ND		1.0		ug/L			07/31/15 20:04	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			07/31/15 20:04	1
Hexachlorobutadiene	ND		2.0		ug/L			07/31/15 20:04	1
2-Hexanone	ND		10		ug/L			07/31/15 20:04	1
Isopropylbenzene	ND		1.0		ug/L			07/31/15 20:04	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			07/31/15 20:04	1
Methylene Chloride	ND		5.0		ug/L			07/31/15 20:04	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/31/15 20:04	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			07/31/15 20:04	1
m,p-Xylene	ND		1.0		ug/L			07/31/15 20:04	1
Naphthalene	ND		5.0		ug/L			07/31/15 20:04	1
n-Butylbenzene	ND		2.0		ug/L			07/31/15 20:04	1
N-Propylbenzene	ND		2.0		ug/L			07/31/15 20:04	1
o-Xylene	ND		1.0		ug/L			07/31/15 20:04	1
p-Isopropyltoluene	ND		2.0		ug/L			07/31/15 20:04	1
sec-Butylbenzene	ND		2.0		ug/L			07/31/15 20:04	1
Styrene	ND		1.0		ug/L			07/31/15 20:04	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			07/31/15 20:04	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			07/31/15 20:04	1
tert-Butylbenzene	ND		2.0		ug/L			07/31/15 20:04	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/31/15 20:04	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/31/15 20:04	1
Tetrachloroethene	ND		1.0		ug/L			07/31/15 20:04	1
Toluene	ND		1.0		ug/L			07/31/15 20:04	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			07/31/15 20:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/31/15 20:04	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			07/31/15 20:04	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/31/15 20:04	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/31/15 20:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-270477/4
Matrix: Water
Analysis Batch: 270477

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	ug/L			07/31/15 20:04	1
1,1,2-Trichloroethane	ND		1.0	ug/L			07/31/15 20:04	1
Trichloroethene	ND		1.0	ug/L			07/31/15 20:04	1
Trichlorofluoromethane	ND		1.0	ug/L			07/31/15 20:04	1
1,2,3-Trichloropropane	ND		2.0	ug/L			07/31/15 20:04	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			07/31/15 20:04	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			07/31/15 20:04	1
Vinyl chloride	ND		0.50	ug/L			07/31/15 20:04	1
Xylenes, Total	ND		2.0	ug/L			07/31/15 20:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*07/31/15 20:04*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*07/31/15 20:04*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*07/31/15 20:04*	*1*

Lab Sample ID: LCS 440-270477/5
Matrix: Water
Analysis Batch: 270477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	20.3		ug/L		81	10 - 150
Benzene	25.0	26.0		ug/L		104	68 - 130
Bromobenzene	25.0	26.6		ug/L		106	70 - 130
Bromochloromethane	25.0	27.5		ug/L		110	70 - 130
Bromodichloromethane	25.0	28.5		ug/L		114	70 - 132
Bromoform	25.0	29.4		ug/L		118	60 - 148
Bromomethane	25.0	20.9		ug/L		84	64 - 139
2-Butanone (MEK)	25.0	25.3		ug/L		101	44 - 150
Carbon disulfide	25.0	26.8		ug/L		107	52 - 136
Carbon tetrachloride	25.0	30.0		ug/L		120	60 - 150
Chlorobenzene	25.0	26.0		ug/L		104	70 - 130
Chloroethane	25.0	19.7		ug/L		79	64 - 135
Chloroform	25.0	28.2		ug/L		113	70 - 130
Chloromethane	25.0	19.0		ug/L		76	47 - 140
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130
4-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130
cis-1,2-Dichloroethene	25.0	27.2		ug/L		109	70 - 133
cis-1,3-Dichloropropene	25.0	28.5		ug/L		114	70 - 133
Dibromochloromethane	25.0	29.1		ug/L		117	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	20.4		ug/L		82	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.3		ug/L		109	70 - 130
Dibromomethane	25.0	26.9		ug/L		108	70 - 130
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130
Dichlorodifluoromethane	25.0	19.6		ug/L		78	29 - 150
1,1-Dichloroethane	25.0	27.1		ug/L		108	64 - 130
1,2-Dichloroethane	25.0	27.7		ug/L		111	57 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-270477/5
Matrix: Water
Analysis Batch: 270477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
1,2-Dichloropropane	25.0	27.9		ug/L		112	67 - 130
1,3-Dichloropropane	25.0	26.3		ug/L		105	70 - 130
2,2-Dichloropropane	25.0	26.4		ug/L		105	68 - 141
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130
Ethylbenzene	25.0	25.7		ug/L		103	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	27.0		ug/L		108	60 - 136
Hexachlorobutadiene	25.0	27.7		ug/L		111	10 - 150
2-Hexanone	25.0	25.1		ug/L		101	10 - 150
Isopropylbenzene	25.0	26.8		ug/L		107	70 - 136
Isopropyl Ether (DIPE)	25.0	27.0		ug/L		108	58 - 139
Methylene Chloride	25.0	25.2		ug/L		101	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	27.9		ug/L		112	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	25.9		ug/L		103	63 - 131
m,p-Xylene	25.0	27.6		ug/L		111	70 - 130
Naphthalene	25.0	23.6		ug/L		95	60 - 140
n-Butylbenzene	25.0	26.5		ug/L		106	65 - 150
N-Propylbenzene	25.0	26.3		ug/L		105	67 - 139
o-Xylene	25.0	27.3		ug/L		109	70 - 130
p-Isopropyltoluene	25.0	27.1		ug/L		108	70 - 132
sec-Butylbenzene	25.0	25.9		ug/L		104	70 - 138
Styrene	25.0	28.1		ug/L		112	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	24.9		ug/L		100	57 - 139
tert-Butyl alcohol (TBA)	250	270		ug/L		108	70 - 130
tert-Butylbenzene	25.0	26.4		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	25.0	28.8		ug/L		115	60 - 141
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	63 - 130
Tetrachloroethene	25.0	28.1		ug/L		112	70 - 130
Toluene	25.0	25.4		ug/L		102	70 - 130
trans-1,2-Dichloroethene	25.0	28.1		ug/L		112	70 - 130
trans-1,3-Dichloropropene	25.0	27.6		ug/L		110	70 - 132
1,2,3-Trichlorobenzene	25.0	25.0		ug/L		100	60 - 140
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	60 - 140
1,1,1-Trichloroethane	25.0	28.4		ug/L		114	70 - 130
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	70 - 130
Trichloroethene	25.0	27.6		ug/L		111	70 - 130
Trichlorofluoromethane	25.0	23.9		ug/L		96	60 - 150
1,2,3-Trichloropropane	25.0	23.3		ug/L		93	63 - 130
1,2,4-Trimethylbenzene	25.0	26.9		ug/L		108	70 - 135
1,3,5-Trimethylbenzene	25.0	26.4		ug/L		106	70 - 136
Vinyl chloride	25.0	20.5		ug/L		82	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*
Toluene-d8 (Surr)	*105*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116350-8 MS
Matrix: Water
Analysis Batch: 270477

Client Sample ID: PW-3-490-GW-28072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	ND		ug/L		73	10 - 150
Benzene	ND		25.0	26.1		ug/L		104	66 - 130
Bromobenzene	ND		25.0	27.3		ug/L		109	70 - 130
Bromochloromethane	ND		25.0	26.9		ug/L		108	70 - 130
Bromodichloromethane	ND		25.0	27.0		ug/L		108	70 - 138
Bromoform	ND		25.0	29.0		ug/L		116	59 - 150
Bromomethane	ND		25.0	21.7		ug/L		87	62 - 131
2-Butanone (MEK)	ND		25.0	25.4		ug/L		102	48 - 140
Carbon disulfide	ND		25.0	28.3		ug/L		113	49 - 140
Carbon tetrachloride	ND		25.0	30.3		ug/L		121	60 - 150
Chlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130
Chloroethane	ND		25.0	20.3		ug/L		81	68 - 130
Chloroform	1.6		25.0	28.5		ug/L		108	70 - 130
Chloromethane	ND		25.0	20.4		ug/L		82	39 - 144
2-Chlorotoluene	ND		25.0	27.3		ug/L		109	70 - 130
4-Chlorotoluene	ND		25.0	27.5		ug/L		110	70 - 130
cis-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	70 - 130
cis-1,3-Dichloropropene	ND		25.0	27.9		ug/L		112	70 - 133
Dibromochloromethane	ND		25.0	28.0		ug/L		112	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	21.9		ug/L		88	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	26.6		ug/L		107	70 - 131
Dibromomethane	ND		25.0	25.7		ug/L		103	70 - 130
1,2-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130
1,4-Dichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130
Dichlorodifluoromethane	ND		25.0	20.2		ug/L		81	25 - 142
1,1-Dichloroethane	ND		25.0	26.9		ug/L		108	65 - 130
1,2-Dichloroethane	ND		25.0	26.3		ug/L		105	56 - 146
1,1-Dichloroethene	ND		25.0	28.2		ug/L		113	70 - 130
1,2-Dichloropropane	ND		25.0	27.2		ug/L		109	69 - 130
1,3-Dichloropropane	ND		25.0	25.7		ug/L		103	70 - 130
2,2-Dichloropropane	ND		25.0	27.9		ug/L		112	69 - 138
1,1-Dichloropropene	ND		25.0	27.0		ug/L		108	64 - 130
Ethylbenzene	ND		25.0	26.1		ug/L		105	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	25.8		ug/L		103	70 - 130
Hexachlorobutadiene	ND		25.0	27.9		ug/L		111	10 - 150
2-Hexanone	ND		25.0	27.7		ug/L		111	10 - 150
Isopropylbenzene	ND		25.0	27.3		ug/L		109	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	25.4		ug/L		102	64 - 138
Methylene Chloride	ND		25.0	24.8		ug/L		99	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	29.2		ug/L		117	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.9		ug/L		100	70 - 130
m,p-Xylene	ND		25.0	28.6		ug/L		114	70 - 133
Naphthalene	ND		25.0	23.0		ug/L		92	60 - 140
n-Butylbenzene	ND		25.0	28.0		ug/L		112	61 - 149
N-Propylbenzene	ND		25.0	28.0		ug/L		112	66 - 135
o-Xylene	ND		25.0	27.5		ug/L		110	70 - 133
p-Isopropyltoluene	ND		25.0	28.6		ug/L		114	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116350-8 MS
Matrix: Water
Analysis Batch: 270477

Client Sample ID: PW-3-490-GW-28072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	ND		25.0	27.6		ug/L		111	67 - 134
Styrene	ND		25.0	27.4		ug/L		110	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	23.8		ug/L		95	68 - 133
tert-Butyl alcohol (TBA)	ND		250	284		ug/L		113	70 - 130
tert-Butylbenzene	ND		25.0	27.9		ug/L		112	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	28.1		ug/L		112	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	25.2		ug/L		101	63 - 130
Tetrachloroethene	ND		25.0	29.6		ug/L		118	70 - 137
Toluene	ND		25.0	26.1		ug/L		104	70 - 130
trans-1,2-Dichloroethene	ND		25.0	28.2		ug/L		113	70 - 130
trans-1,3-Dichloropropene	ND		25.0	27.1		ug/L		108	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	23.7		ug/L		95	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.7		ug/L		103	60 - 140
1,1,1-Trichloroethane	ND		25.0	28.2		ug/L		113	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.3		ug/L		101	70 - 130
Trichloroethene	6.4		25.0	34.9		ug/L		114	70 - 130
Trichlorofluoromethane	ND		25.0	22.7		ug/L		91	60 - 150
1,2,3-Trichloropropane	ND		25.0	24.5		ug/L		98	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	27.7		ug/L		111	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.9		ug/L		112	70 - 130
Vinyl chloride	ND		25.0	21.8		ug/L		87	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: 440-116350-8 MSD
Matrix: Water
Analysis Batch: 270477

Client Sample ID: PW-3-490-GW-28072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	20.9		ug/L		84	10 - 150	14	35
Benzene	ND		25.0	26.2		ug/L		105	66 - 130	0	20
Bromobenzene	ND		25.0	27.2		ug/L		109	70 - 130	0	20
Bromochloromethane	ND		25.0	25.9		ug/L		104	70 - 130	4	25
Bromodichloromethane	ND		25.0	27.7		ug/L		111	70 - 138	2	20
Bromoform	ND		25.0	28.4		ug/L		113	59 - 150	2	25
Bromomethane	ND		25.0	21.1		ug/L		84	62 - 131	3	25
2-Butanone (MEK)	ND		25.0	24.3		ug/L		97	48 - 140	4	40
Carbon disulfide	ND		25.0	28.1		ug/L		112	49 - 140	1	20
Carbon tetrachloride	ND		25.0	30.7		ug/L		123	60 - 150	2	25
Chlorobenzene	ND		25.0	26.6		ug/L		106	70 - 130	1	20
Chloroethane	ND		25.0	20.1		ug/L		80	68 - 130	1	25
Chloroform	1.6		25.0	28.6		ug/L		108	70 - 130	0	20
Chloromethane	ND		25.0	18.9		ug/L		76	39 - 144	8	25
2-Chlorotoluene	ND		25.0	27.5		ug/L		110	70 - 130	1	20
4-Chlorotoluene	ND		25.0	27.4		ug/L		109	70 - 130	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116350-8 MSD
Matrix: Water
Analysis Batch: 270477

Client Sample ID: PW-3-490-GW-28072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		25.0	26.8		ug/L		107	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	28.2		ug/L		113	70 - 133	1	20
Dibromochloromethane	ND		25.0	28.3		ug/L		113	70 - 148	1	25
1,2-Dibromo-3-Chloropropane	ND		25.0	20.0		ug/L		80	48 - 140	9	30
1,2-Dibromoethane (EDB)	ND		25.0	26.2		ug/L		105	70 - 131	2	25
Dibromomethane	ND		25.0	25.3		ug/L		101	70 - 130	2	25
1,2-Dichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	26.9		ug/L		108	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130	1	20
Dichlorodifluoromethane	ND		25.0	20.7		ug/L		83	25 - 142	3	30
1,1-Dichloroethane	ND		25.0	27.0		ug/L		108	65 - 130	0	20
1,2-Dichloroethane	ND		25.0	26.0		ug/L		104	56 - 146	1	20
1,1-Dichloroethene	ND		25.0	28.1		ug/L		112	70 - 130	0	20
1,2-Dichloropropane	ND		25.0	27.4		ug/L		110	69 - 130	1	20
1,3-Dichloropropane	ND		25.0	25.8		ug/L		103	70 - 130	0	25
2,2-Dichloropropane	ND		25.0	27.7		ug/L		111	69 - 138	1	25
1,1-Dichloropropene	ND		25.0	27.9		ug/L		112	64 - 130	3	20
Ethylbenzene	ND		25.0	26.8		ug/L		107	70 - 130	2	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	25.2		ug/L		101	70 - 130	2	25
Hexachlorobutadiene	ND		25.0	26.4		ug/L		106	10 - 150	5	20
2-Hexanone	ND		25.0	25.6		ug/L		102	10 - 150	8	35
Isopropylbenzene	ND		25.0	27.8		ug/L		111	70 - 132	2	20
Isopropyl Ether (DIPE)	ND		25.0	25.5		ug/L		102	64 - 138	0	25
Methylene Chloride	ND		25.0	24.6		ug/L		98	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	27.3		ug/L		109	52 - 150	7	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.3		ug/L		97	70 - 130	2	25
m,p-Xylene	ND		25.0	28.9		ug/L		116	70 - 133	1	25
Naphthalene	ND		25.0	21.8		ug/L		87	60 - 140	5	30
n-Butylbenzene	ND		25.0	28.0		ug/L		112	61 - 149	0	20
N-Propylbenzene	ND		25.0	28.2		ug/L		113	66 - 135	1	20
o-Xylene	ND		25.0	28.0		ug/L		112	70 - 133	2	20
p-Isopropyltoluene	ND		25.0	28.4		ug/L		114	70 - 130	1	20
sec-Butylbenzene	ND		25.0	27.6		ug/L		110	67 - 134	0	20
Styrene	ND		25.0	27.8		ug/L		111	29 - 150	1	35
Tert-amyl-methyl ether (TAME)	ND		25.0	23.3		ug/L		93	68 - 133	2	30
tert-Butyl alcohol (TBA)	ND		250	285		ug/L		114	70 - 130	0	25
tert-Butylbenzene	ND		25.0	27.9		ug/L		112	70 - 130	0	20
1,1,1,2-Tetrachloroethane	ND		25.0	28.1		ug/L		112	60 - 149	0	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.2		ug/L		97	63 - 130	4	30
Tetrachloroethene	ND		25.0	29.8		ug/L		119	70 - 137	1	20
Toluene	ND		25.0	26.5		ug/L		106	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	28.5		ug/L		114	70 - 130	1	20
trans-1,3-Dichloropropene	ND		25.0	27.0		ug/L		108	70 - 138	0	25
1,2,3-Trichlorobenzene	ND		25.0	23.1		ug/L		92	60 - 140	3	20
1,2,4-Trichlorobenzene	ND		25.0	24.9		ug/L		100	60 - 140	3	20
1,1,1-Trichloroethane	ND		25.0	28.7		ug/L		115	70 - 130	2	20
1,1,2-Trichloroethane	ND		25.0	25.2		ug/L		101	70 - 130	1	25
Trichloroethene	6.4		25.0	34.6		ug/L		113	70 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116350-8 MSD — **Client Sample ID: PW-3-490-GW-28072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	ND		25.0	24.2		ug/L		97	60 - 150	7	25
1,2,3-Trichloropropane	ND		25.0	23.3		ug/L		93	60 - 130	5	30
1,2,4-Trimethylbenzene	ND		25.0	27.5		ug/L		110	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		25.0	27.8		ug/L		111	70 - 130	0	20
Vinyl chloride	ND		25.0	21.6		ug/L		86	50 - 137	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 440-270046/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270046

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/30/15 07:41	1

Lab Sample ID: LCS 440-270046/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	24.8		ug/L		99	85 - 115

Lab Sample ID: MRL 440-270046/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270046

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.18		ug/L		104	75 - 125

Lab Sample ID: 440-116129-D-19 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270046

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	25.7		ug/L		99	80 - 120

Lab Sample ID: 440-116129-D-19 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270046

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	25.5		ug/L		98	80 - 120	1	20

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: MB 440-270047/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270047

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/30/15 07:47	1

Lab Sample ID: LCS 440-270047/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	24.0		ug/L		96	85 - 115

Lab Sample ID: MRL 440-270047/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270047

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.09		ug/L		102	75 - 125

Lab Sample ID: 440-116476-V-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	25.4		ug/L		102	80 - 120

Lab Sample ID: 440-116476-V-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	25.2		ug/L		101	80 - 120	1	20

Lab Sample ID: MB 440-270332/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270332

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			07/31/15 09:06	1

Lab Sample ID: LCS 440-270332/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	25.8		ug/L		103	85 - 115

Lab Sample ID: MRL 440-270332/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270332

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.11		ug/L		103	75 - 125

QC Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Lab Sample ID: 440-116435-A-4 MS
Matrix: Water
Analysis Batch: 270332

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	3.6		25.0	31.4		ug/L		111	80 - 120		

Lab Sample ID: 440-116435-A-4 MSD
Matrix: Water
Analysis Batch: 270332

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	3.6		25.0	30.7		ug/L		108	80 - 120	2	20

QC Association Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

GC/MS VOA

Analysis Batch: 270224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116350-1	28072015TB-1	Total/NA	Water	8260B	
440-116350-2	IN/5W-34D25-770-GW-28072015	Total/NA	Water	8260B	
440-116350-2 MS	IN/5W-34D25-770-GW-28072015	Total/NA	Water	8260B	
440-116350-2 MSD	IN/5W-34D25-770-GW-28072015	Total/NA	Water	8260B	
440-116350-3	IN/5W-34D3S-600-GW-28072015	Total/NA	Water	8260B	
440-116350-4	28072015FB-1	Total/NA	Water	8260B	
440-116350-5	EMW-05A-450-GW-28072015	Total/NA	Water	8260B	
440-116350-6	EMW-05B-612-GW-28072015	Total/NA	Water	8260B	
440-116350-7	EMW-05C-720-GW-28072015	Total/NA	Water	8260B	
LCS 440-270224/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-270224/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 270477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116350-8	PW-3-490-GW-28072015	Total/NA	Water	8260B	
440-116350-8 MS	PW-3-490-GW-28072015	Total/NA	Water	8260B	
440-116350-8 MSD	PW-3-490-GW-28072015	Total/NA	Water	8260B	
440-116350-9	PW-2-475-GW-28072015	Total/NA	Water	8260B	
440-116350-10	PW-4-490-GW-28072015	Total/NA	Water	8260B	
440-116350-11	EMW-03A-418-GW-28072015	Total/NA	Water	8260B	
440-116350-12	EMW-03B-560-GW-28072015	Total/NA	Water	8260B	
440-116350-13	EMW-03C-640-GW-28072015	Total/NA	Water	8260B	
LCS 440-270477/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-270477/4	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 270046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116129-D-19 MS	Matrix Spike	Total/NA	Water	314.0 LL	
440-116129-D-19 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
440-116350-10	PW-4-490-GW-28072015	Total/NA	Water	314.0 LL	
440-116350-11	EMW-03A-418-GW-28072015	Total/NA	Water	314.0 LL	
440-116350-12	EMW-03B-560-GW-28072015	Total/NA	Water	314.0 LL	
440-116350-13	EMW-03C-640-GW-28072015	Total/NA	Water	314.0 LL	
LCS 440-270046/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-270046/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-270046/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Analysis Batch: 270047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116350-2	IN/5W-34D25-770-GW-28072015	Total/NA	Water	314.0 LL	
440-116350-4	28072015FB-1	Total/NA	Water	314.0 LL	
440-116350-6	EMW-05B-612-GW-28072015	Total/NA	Water	314.0 LL	
440-116350-7	EMW-05C-720-GW-28072015	Total/NA	Water	314.0 LL	
440-116350-8	PW-3-490-GW-28072015	Total/NA	Water	314.0 LL	
440-116350-9	PW-2-475-GW-28072015	Total/NA	Water	314.0 LL	
440-116476-V-1 MS	Matrix Spike	Total/NA	Water	314.0 LL	
440-116476-V-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
LCS 440-270047/6	Lab Control Sample	Total/NA	Water	314.0 LL	

HPLC/IC (Continued)

Analysis Batch: 270047 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-270047/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-270047/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Analysis Batch: 270332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116350-3	IN/5W-34D3S-600-GW-28072015	Total/NA	Water	314.0 LL	
440-116350-5	EMW-05A-450-GW-28072015	Total/NA	Water	314.0 LL	
440-116435-A-4 MS	Matrix Spike	Total/NA	Water	314.0 LL	
440-116435-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
LCS 440-270332/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-270332/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-270332/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.02

TestAmerica Job ID: 440-116350-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16

* Certification renewal pending - certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 28/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Ben Stevens
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
28072015TB-1	7/28/15	0700	G	W	3	N	N	X		
IN/SW-34D25-770-GW-28072015	7/28/15	0850	G	W	4	N	N	X	X	
IN/SW-34D35-600-GW-28072015	7/28/15	0905	G	W	4	N	N	X	X	
28072015FB-1	7/28/15	0830	G	W	4	N	N	X	X	
~~28072015D-1~~	~~7/28/15~~	—	G	W	4	N	N	X	X	BS 7/28/15
EMW-05A-450-GW-28072015	7/28/15	1015	G	W	4	N	N	X	X	
EMW-05B-612-GW-28072015	7/28/15	1000	G	W	4	N	N	X	X	
EMW-05C-720-GW-28072015	7/28/15	0930	G	W	4	N	N	X	X	
~~28072015D-2~~	~~7/28/15~~	—	G	W	4	N	N	X	X	BS 7/28/15
PW-3-490-GW-28072015	7/28/15	1035	G	W	4	N	N	X	X	
PW-2-475-GW-28072015	7/28/15	1050	G	W	4	N	N	X	X	
PW-4-490-GW-28072015	7/28/15	1120	G	W	4	N	N	X	X	
								1,2	1	

00 7/29/15 12:15

440-116350 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.1 / 4.5 #75

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.2 Corr'd: 4.6 | Therm ID No.:

Relinquished by:	Company: BTS	Date/Time: 7-28-15 1600	Received by: Nicole	Company: BTS	Date/Time: 7/28/15 1600
Relinquished by: Nicole	Company: BTS	Date/Time: 7/28/15 1640	Received by: George Genaw	Company: UTC DES	Date/Time: 7/28/15 1640
Relinquished by: George Genaw	Company: DES	Date/Time: 7/28/15 1830	Received in Laboratory by:	Company: TAE	Date/Time: 07/28/15 18:30

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: / /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	2 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	Sample Specific Notes:
EMW-03A-418-GW-28072015	7/28/15	1250	G	W	4	N	N	X	X	
EMW-03B-560-GW-28072015	7/28/15	1215	G	W	4	N	N	X	X	
EMW-03C-640-GW-28072015	7/28/15	1140	G	W	4	N	N	X	X	
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
	/ /15		G	W		N	N			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____								1,2	1	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

4.1°/4.5 #75

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.2 Corr'd: 4.6 | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/28/15 1600	Nicole	BTS	7/28/15 1600
Nicole	BTS	7/28/15 1640	[signature] George Gerardo	UTC DCS	7/28/15 1640
[signature] George Gerardo	DCS	7/28/15 1830	Received in Laboratory by: [signature]	TAI	07/28/15 18:30

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-116350-1

Login Number: 116350
List Number: 1
Creator: Avila, Stephanie 1

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-116460-2
Client Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

For:
AECOM, Inc.
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Orange, California 92868

Attn: Ms. Rebecca Mora

Authorized for release by:
9/16/2015 2:37:42 PM

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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-116460-1	EPA-MW-9B-725-GW-29072015	Water	07/29/15 09:40	07/29/15 18:30

Job ID: 440-116460-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-116460-2

Comments
No additional comments.

Receipt
The samples were received on 7/29/2015 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.5º C, 3.8º C and 4.7º C.

RAD
Method(s) PrecSep-21, PrecSep_0: Radium-228 batch 203613 and radium-226 batch 203611:
Insufficient sample volume was available to perform a QC sample duplicate (DUP) associated with: EPA-MW-9B-725-GW-29072015 (440-116460-1). A laboratory control standard duplicate (LCSD) was performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Subcontract Work
Method Radon 222: This method was subcontracted to TestAmerica Richland. The subcontract laboratory certification is different from that of the facility issuing the final report.

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-2

Client Sample ID: EPA-MW-9B-725-GW-29072015

Lab Sample ID: 440-116460-1

Date Collected: 07/29/15 09:40
Matrix: Water
Date Received: 07/29/15 18:30

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1.68	U	1.81	1.82	2.92	pCi/L	08/04/15 11:20	08/10/15 07:36	1
Gross Beta	1.30	U	1.02	1.03	1.63	pCi/L	08/04/15 11:20	08/10/15 07:36	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0489	U	0.0446	0.0448	0.0682	pCi/L	08/03/15 13:10	08/25/15 06:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*08/03/15 13:10*	*08/25/15 06:33*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.123	U	0.220	0.221	0.373	pCi/L	08/03/15 13:16	08/19/15 11:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*08/03/15 13:16*	*08/19/15 11:48*	*1*
Y Carrier	*91.2*		*40 - 110*	*08/03/15 13:16*	*08/19/15 11:48*	*1*

Method: 905 - Strontium-90 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium-90	0.0725	U	0.228	0.228	0.393	pCi/L	08/05/15 11:12	08/13/15 13:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Sr Carrier	*87.0*		*40 - 110*	*08/05/15 11:12*	*08/13/15 13:20*	*1*
Y Carrier	*92.0*		*40 - 110*	*08/05/15 11:12*	*08/13/15 13:20*	*1*

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	69.4	U	225	225	401	pCi/L	08/05/15 13:19	08/05/15 20:29	1

Method Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-2

Method	Method Description	Protocol	Laboratory
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
905	Strontium-90 (GFPC)	EPA	TAL SL
906.0	Tritium, Total (LSC)	EPA	TAL SL
Radon 222	General Sub Contract Method	NONE	TAL RCH

Protocol References:

EPA = US Environmental Protection Agency
NONE = NONE

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-2

Client Sample ID: EPA-MW-9B-725-GW-29072015

Lab Sample ID: 440-116460-1

Date Collected: 07/29/15 09:40

Matrix: Water

Date Received: 07/29/15 18:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Evaporation			133 mL	1.0 g	203844	08/04/15 11:20	MJS	TAL SL
Total/NA	Analysis	900.0		1	133 mL		204751	08/10/15 07:36	CDH	TAL SL
Total/NA	Prep	PrecSep-21			980.10 mL	1.0 g	203611	08/03/15 13:10	JAC	TAL SL
Total/NA	Analysis	903.0		1	980.10 mL		207686	08/25/15 06:33	ALS	TAL SL
Total/NA	Prep	PrecSep_0			980.10 mL	1.0 g	203613	08/03/15 13:16	JAC	TAL SL
Total/NA	Analysis	904.0		1	980.10 mL		206488	08/19/15 11:48	MFM	TAL SL
Total/NA	Prep	PrecSep-7			947.94 mL	1.0 g	204046	08/05/15 11:12	MDB	TAL SL
Total/NA	Analysis	905		1	947.94 mL		205342	08/13/15 13:20	MFM	TAL SL
Total/NA	Prep	LSC_Dist_Susp			100.04 mL	1.0 g	204069	08/05/15 13:19	JDL	TAL SL
Total/NA	Analysis	906.0		1	100.04 mL		204178	08/05/15 20:29	ALD	TAL SL

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-2

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-203844/1-A
Matrix: Water
Analysis Batch: 204690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203844

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.09580	U	0.595	0.595	1.15	pCi/L	08/04/15 11:20	08/10/15 07:32	1
Gross Beta	-0.3225	U	0.462	0.463	0.889	pCi/L	08/04/15 11:20	08/10/15 07:32	1

Lab Sample ID: LCS 160-203844/2-A
Matrix: Water
Analysis Batch: 204690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203844

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	50.0	57.04		8.57	3.31	pCi/L	114	73 - 133

Lab Sample ID: LCSB 160-203844/3-A
Matrix: Water
Analysis Batch: 204690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203844

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	94.5	96.17		10.1	1.05	pCi/L	102	75 - 125

Lab Sample ID: 160-13124-B-1-B MS
Matrix: Water
Analysis Batch: 204751

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 203844

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	7.21	G	97.1	100.9		15.0	4.90	pCi/L	96	60 - 140

Lab Sample ID: 160-13124-B-1-C MSBT
Matrix: Water
Analysis Batch: 204751

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 203844

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	15.0		184	203.2		21.4	2.10	pCi/L	103	60 - 140

Lab Sample ID: 160-13124-B-1-D DU
Matrix: Water
Analysis Batch: 204751

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 203844

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Gross Alpha	7.21	G	9.036	G	3.54	3.59	pCi/L	0.24	1
Gross Beta	15.0		11.38		2.21	1.98	pCi/L	0.75	1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-203611/1-A
Matrix: Water
Analysis Batch: 207686

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203611

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.009448	U	0.0360	0.0360	0.0683	pCi/L	08/03/15 13:10	08/25/15 06:32	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*110*		*40 - 110*	*08/03/15 13:10*	*08/25/15 06:32*	*1*

Lab Sample ID: LCS 160-203611/2-A
Matrix: Water
Analysis Batch: 207686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203611

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	11.58		1.14	0.111	pCi/L	104	68 - 137

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*109*		*40 - 110*

Lab Sample ID: LCSD 160-203611/3-A
Matrix: Water
Analysis Batch: 207686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203611

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.2	11.28		1.12	0.0923	pCi/L	101	68 - 137	0.13	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*100*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-203613/1-A
Matrix: Water
Analysis Batch: 206488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203613

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.01518	U	0.180	0.180	0.324	pCi/L	08/03/15 13:16	08/19/15 11:48	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*110*		*40 - 110*	*08/03/15 13:16*	*08/19/15 11:48*	*1*
Y Carrier	*91.6*		*40 - 110*	*08/03/15 13:16*	*08/19/15 11:48*	*1*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-203613/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206488 — **Prep Batch: 203613**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Radium-228	3.32	3.014		0.478	0.385	pCi/L	91	56 - 140

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*109*		*40 - 110*
Y Carrier	*91.6*		*40 - 110*

Lab Sample ID: LCSD 160-203613/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 206488 — **Prep Batch: 203613**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	3.32	3.313		0.512	0.366	pCi/L	100	56 - 140	0.30	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*100*		*40 - 110*
Y Carrier	*88.2*		*40 - 110*

Method: 905 - Strontium-90 (GFPC)

Lab Sample ID: MB 160-204046/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 205342 — **Prep Batch: 204046**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium-90	0.02287	U	0.219	0.219	0.385	pCi/L	08/05/15 11:12	08/13/15 13:19	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Sr Carrier	*75.3*		*40 - 110*	*08/05/15 11:12*	*08/13/15 13:19*	*1*
Y Carrier	*92.3*		*40 - 110*	*08/05/15 11:12*	*08/13/15 13:19*	*1*

Lab Sample ID: LCS 160-204046/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 205342 — **Prep Batch: 204046**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Strontium-90	8.82	9.326		0.992	0.387	pCi/L	106	77 - 125

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Sr Carrier	*79.6*		*40 - 110*
Y Carrier	*90.1*		*40 - 110*

Method: 905 - Strontium-90 (GFPC) (Continued)

Lab Sample ID: 440-116460-1 DU — **Client Sample ID: EPA-MW-9B-725-GW-29072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 205341 — **Prep Batch: 204046**

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Strontium-90	0.0725	U		-0.004968	U	0.0195		0.0353	pCi/L			0.31	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Sr Carrier	*86.6*		*40 - 110*
Y Carrier	*92.3*		*40 - 110*

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-204069/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 204178 — **Prep Batch: 204069**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	148.2	U	237	237	403	pCi/L	08/05/15 13:19	08/05/15 17:25	1

Lab Sample ID: LCS 160-204069/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 204178 — **Prep Batch: 204069**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Tritium			3340	3441		592		398	pCi/L	103	74 - 114		

Lab Sample ID: 280-72512-A-4-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 204178 — **Prep Batch: 204069**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)		MDC	Unit	%Rec	%Rec. Limits		
Tritium	5710		3340	9626		1170		406	pCi/L	118	67 - 130		

Lab Sample ID: 280-72512-A-3-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 204178 — **Prep Batch: 204069**

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)		MDC	Unit			RER	RER Limit
Tritium	378	U		463.5		274		395	pCi/L			0.16	1

QC Association Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-2

Rad

Prep Batch: 203611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116460-1	EPA-MW-9B-725-GW-29072015	Total/NA	Water	PrecSep-21	
LCS 160-203611/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-203611/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	
MB 160-203611/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 203613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116460-1	EPA-MW-9B-725-GW-29072015	Total/NA	Water	PrecSep_0	
LCS 160-203613/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-203613/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	
MB 160-203613/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 203844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13124-B-1-B MS	Matrix Spike	Total/NA	Water	Evaporation	
160-13124-B-1-C MSBT	Matrix Spike	Total/NA	Water	Evaporation	
160-13124-B-1-D DU	Duplicate	Total/NA	Water	Evaporation	
440-116460-1	EPA-MW-9B-725-GW-29072015	Total/NA	Water	Evaporation	
LCS 160-203844/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-203844/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-203844/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 204046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116460-1	EPA-MW-9B-725-GW-29072015	Total/NA	Water	PrecSep-7	
440-116460-1 DU	EPA-MW-9B-725-GW-29072015	Total/NA	Water	PrecSep-7	
LCS 160-204046/2-A	Lab Control Sample	Total/NA	Water	PrecSep-7	
MB 160-204046/1-A	Method Blank	Total/NA	Water	PrecSep-7	

Prep Batch: 204069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-72512-A-3-B DU	Duplicate	Total/NA	Water	LSC_Dist_Susp	
280-72512-A-4-B MS	Matrix Spike	Total/NA	Water	LSC_Dist_Susp	
440-116460-1	EPA-MW-9B-725-GW-29072015	Total/NA	Water	LSC_Dist_Susp	
LCS 160-204069/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
MB 160-204069/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-2

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-16 *
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

Laboratory: TestAmerica Richland

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA-LAP, LLC	IHLAP		187436	11-01-15
Arizona	State Program	9	AZ0709	07-02-16
California	State Program	9	2425	05-31-16
Colorado	State Program	8	N/A	09-30-15
Florida	NELAP	4	E87829	06-30-16
Hawaii	State Program	9	N/A	01-09-16
L-A-B	DoD ELAP		L2291	06-30-17
Michigan	State Program	5	N/A	08-13-16
Nevada	State Program	9	WA011162015-1	07-31-16
New Mexico	State Program	6	WA00023	01-09-16
Oregon	NELAP	10	WA100002	01-09-16
Pennsylvania	NELAP	3	68-04849	08-31-16
Tennessee	State Program	4	TN04011	01-09-16
Texas	NELAP	6	T104704493-14-5	12-31-15
USDA	Federal		P330-14-00085	03-06-17
Utah	NELAP	8	QUAN8	01-31-16
Virginia	State Program	3	460273	03-14-16
Washington	State Program	10	C565	08-13-16
Washington (CLIA)	State Program	10	50D0661626	06-30-17

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16
California	ELAP	9	2886	03-31-16
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	200023	11-30-15
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	10-31-15 *
Kentucky (DW)	State Program	4	90125	12-31-15
L-A-B	DoD ELAP		L2305	01-10-16
Louisiana	NELAP	6	04080	06-30-16
Louisiana (DW)	NELAP	6	LA150017	12-31-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-2

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-15 *
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	09-30-15 *
New York	NELAP	2	11616	03-31-16
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16
Pennsylvania	NELAP	3	68-00540	02-28-16
South Carolina	State Program	4	85002001	06-30-15 *
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

Analytical Data Package Prepared For

TestAmerica - Irvine, CA

Radiochemical Analysis By

TestAmerica Inc

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TARL

Data Package Contains _____ Pages

Report No.: 66883

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
50034		EPA-MW-9B-725-GW-29072015(440-	J5G310421-1	M7DNJ1AA	9M7DNJ10	5212034

Certificate of Analysis

August 5, 2015

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, California 92614

Attention: Beth Riley

Date Received by Lab	:	July 31, 2015
Sample Number/Matrix	:	One (1) Water
SDG Number	:	50034
Project Name / Number	:	BF Goodrich, Rialto, CA 60342184-07.03/44013488
Job Number	:	440-116460-1
COC Number	:	440-85845.1

CASE NARRATIVE

I. Introduction

On July 31, 2015, one water sample was received at the TestAmerica Richland laboratory for radiochemical analysis. Upon receipt, the sample was assigned the TestAmerica identification number as described on the cover page of the Analytical Data Package. The sample was assigned to Lot Number J5G310421.

II. Sample Receipt

The sample was received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analyses requested were:

Liquid Scintillation
Radon 222 by method RL-LSC-019

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Liquid Scintillation

Radon 222 by method RL-LSC-019:
The LCS, batch blank, sample and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW and/or NELAC, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

_____
Robin Ebert-Mays
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in “NIST Technical Note 1297, 1994 Edition”. The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
CSU (#s) ***u_c Combined Standard Uncert.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined standard uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

TestAmerica Inc TARL

Ordered by Method, Batch No., Client Sample ID.

Date: 05-Aug-15

Report No. : 66883

SDG No: 50033

Batch	Client Id / Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RER2
5212034	**EITR**								
	C9rec3(440-116403-1) DUP								
	M7DNH1AJ	Rn-222	3.94E+02 +- 3.1E+01		pCi/L	100%	2.90E+01	5.00E+01	0.5
	EPA-MW-9B-725-GW-29072015(440-								
	M7DNJ1AA	Rn-222	2.99E+01 +- 1.3E+01	U	pCi/L	100%	2.99E+01	5.00E+01	

No. of Results: 2

TestAmerica Inc

rptTALRchSaSummary2 V5.3.8 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

QC Results Summary

TestAmerica Inc TARL

Ordered by Method, Batch No, QC Type,.

Date: 05-Aug-15

Report No. : 66883

SDG No.: 50033

Batch Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
EITR								
5212034 BLANK QC,								
M7DN91AA	Rn-222	1.93E+01 +- 8.6E+00	U	pCi/L	100%			1.93E+01
5212034 LCS,								
M7DN91AE	Rn-222	4.50E+03 +- 2.2E+02		pCi/L	100%	89%	-0.1	2.06E+01
M7DN91AC	Rn-222	4.33E+03 +- 2.1E+02		pCi/L	100%	90%	-0.1	1.95E+01

No. of Results: 3

TestAmerica Inc

rptSTLRchQcSummary V5.3.8 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 05-Aug-15

Lab Name:	**TestAmerica Inc**	**SDG:**	50034	**Collection Date:**	7/29/2015 9:40:00 AM
Lot-Sample No.:	**J5G310421-1**	**Report No. :**	66883	**Received Date:**	7/31/2015 10:30:00 AM
Client Sample ID:	**EPA-MW-9B-725-GW-29072015(440-**	**COC No. :**		**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5212034	EITR			**Work Order:**	M7DNJ1AA		**Report DB ID:**	9M7DNJ10				
Rn-222	**2.99E+01**	U	1.2E+01	1.3E+01	2.99E+01	pCi/L	100%	*-0.19*	8/1/15 02:07 a		0.01	LSC8
						1.42E+01	5.00E+01	*-0.86*			L	

No. of Results: 1 **Comments:**

TestAmerica Inc
rptSTLRchSample
V5.3.8 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

Date: 05-Aug-15

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	50033	**Collection Date:**	7/29/2015 12:10:00 PM
Lot-Sample No.:	**J5G310420-1**	**Report No. :**	66883	**Received Date:**	7/31/2015 10:30:00 AM
Client Sample ID:	**C9rec3(440-116403-1) DUP**	**COC No. :**		**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5212034 EITR				**Work Order:** M7DNH1AJ		**Report DB ID:** M7DNH1JR			**Orig Sa DB ID:** 9M7DNH10			
Rn-222	3.94E+02		2.3E+01	3.1E+01	2.90E+01	pCi/L	100%	(13.6)	8/1/15 12:22 a		0.01	LSC8
	4.05E+02		**RER2 0.5**			5.00E+01		(25.6)			L	

No. of Results: 1 **Comments:**

TestAmerica Inc **RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.**

rptSTLRchDupV5.3.8 A2002 **MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.**

FORM II

BLANK RESULTS

Date: 05-Aug-15

Lab Name: TestAmerica Inc

SDG: 50033

Matrix: WATER

Report No. : 66883

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5212034	EITR			**Work Order:**	M7DN91AA		**Report DB ID:**	M7DN91AB				
Rn-222	1.93E+01	U	7.9E+00	8.6E+00	1.93E+01	pCi/L	100%	-0.04	7/31/15 07:07 p		0.01	LSC8
					9.17E+00	5.00E+01		-0.18			L	

No. of Results: 1 **Comments:**

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

LCS RESULTS

Date: 05-Aug-15

Lab Name: TestAmerica Inc

SDG: 50033

Matrix: WATER

Report No. : 66883

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 5212034	EITR			**Work Order:**	M7DN91AC		**Report DB ID:**	M7DN91CS					
Rn-222	4.33E+03		5.6E+01	2.1E+02	1.95E+01	pCi/L	100%	4.79E+03	4.88E+01	90%	7/31/15 08:52 p	0.01	LSC8
							Rec Limits:	75	125	-0.1		L	
Batch: 5212034	EITR			**Work Order:**	M7DN91AE		**Report DB ID:**	M7DN91ES					
Rn-222	4.50E+03		5.8E+01	2.2E+02	2.06E+01	pCi/L	100%	5.04E+03	5.14E+01	89%	8/1/15 03:53 a	0.01	LSC8
							Rec Limits:	75	125	-0.1		L	

No. of Results: 2 **Comments:**

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mata, Patty	Carrier Tracking No(s):	COC No: 440-85845.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: patty.mata@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 440-116460-1
Address: 2800 George Washington Way,	Due Date Requested: 8/25/2015			
City: Richland	TAT Requested (days):			
State, Zip: WA, 99352				
Phone: 509-375-3131(Tel) 509-375-5590(Fax)	PO #:			
Email:	WO #:			
Project Name: B.F. Goodrich, Rialto, CA 60342184-07.03	Project #: 44013488			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Radon 222)/ Radon 222	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EPA-MW-9B-725-GW-29072015 (440-116460-1)	7/29/15	09:40 Pacific		Water			X	2	
MMDNJ									
J56310421									
SOG-50034									
Due 8-28-15									

J5G310421

Possible Haz
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Vu B Anh	Date/Time: 7/30/15 17:00	Company TAI	Received by: FedEx	Date/Time: 7/30/15 17:00	Company
Relinquished by:	Date/Time:	Company	Received by: JBock	Date/Time: 7-31-15/ 1030	Company TALR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 7-31-15 | 1030 Container GM Screen Result: (Airlock) 0 cpm Initials [B]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [B]

Client: TA-I SDG #: 50034 SAF #: _____ NA [B]

Lot Number: JSG310421

Chain of Custody # 440-85845.1

Shipping Container ID or Air Bill Number : _____ NA [B]

Samples received inside shipping container/cooler/box Yes [B] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [B] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [B] No [ ] No Custody Seal [ ]
3. Cooler temperature: 5.3 °C NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [B] Ice Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [B] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 2x Vial 40
8. Sample holding times exceeded? NA [ ] Yes [ ] No [B]
9. Samples have: ____tape ____hazard labels ____custody seals [B] appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) [B] I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
    [B] are in good condition ____are leaking ____are broken
    ____have air bubbles (Only for samples requiring no head space) ____Other _____
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [B]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [B]
14. Description of anomalies (include sample numbers): NA [B] _____
15. Sample Location, Sample Collector Listed on COC? * Yes [ ] No [B]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [ ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: _____ Date: 7.31-15

Client Notification needed? Yes [ ] No [ ] Date: _____
By: _____
Person contacted: _____

[ ] No action necessary, process as is

Project Manager _____ Date 8/3/15

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

(A)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: / /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	____ of ____ COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	1. Tritium (906.0)	2. Gross Alpha and Beta (900.0)	3. Radium 226 (903.0)	4. Radium 228 (904.0)	5. Stontium 90 (905_Sr90)	6. Iodide (300_ORGFM_28D)	7. Methyl Mercury (1630)	8. Carbamates (8321A_Carbamate)	10. Explosives (8321A_Explosive)	11. OP Pesticides (8141A)	12. Dioxins/Furans (1613B)	13. 1,4-Dioxane (8270C_SIM)	14. Semivolatiles (8270C_LL)	15. Formaldehyde (8315)	16. NDMA (1625_CI)	17. C13-C22/C23-C40 (8015B_Dro)	18. Glycols (8015C_DAI_GLY)	Sample Specific Notes:
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	14	N	N									X	X	X	X	X	X	X	X		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
										4				2											All samples: 1

440-116460 Chain of Custody

Preservation Used:1=Ice;2= HCl;3=H2SO4;4=HNO3;5=NaOH;6=C2H3ClO2;7=Na2S2O3;8=MCAA

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.3
3.4
1.1

4.7
3.8
1.3

75

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Id: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTJ	7.29.15 1700	George Gerenlow	UTC DCS	7/29/15 1700
George Gerenlow	DCS	7/29/15 1830			
			Received in Laboratory by: [signature]	TA	7/29/15 1830

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

(B)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 29 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	1. Tritium (906.0)	2. Gross Alpha and Beta (900.0)	3. Radium 226 (903.0)	4. Radium 228 (904.0)	5. Stontium 90 (905_Sr90)	6. Iodide (300_ORGFM_28D)	7. Methyl Mercury (1630)	8. Carbamates (8321A_Carbamate)	10. Explosives (8321A_Explosive)	11. OP Pesticides (8141A)	12. Dioxins/Furans (1613B)	13. 1,4-Dioxane (8270C_SIM)	14. Semivolatiles (8270C_LL)	15. Formaldehyde (8315)	16. NDMA (1625_Cl)	17. C13-C22/C23-C40 (8015B_Dro)	18. Glycols (8015C_DAI_GLY)	Sample Specific Notes:
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	10 + 1 mercury kit	N	N	X	X	X	X	X	X	X	X									X	Mercury kit has 2 vials. 12 total containers
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
										4				2											All samples: 1

Preservation Used:1=Ice;2= HCl;3=H2SO4;4=HNO3;5=NaOH;6=C2H3ClO2;7=Na2S2O3;8=MCAA

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.3 3.7 1.1 4.7 3.8 1.5 (75)

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | IR: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/29/15 1700	[signature] George Genovlaw	UTC DCS	7/29/15 1700
[signature] George Genovlaw	DCS	7/29/15 1830	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA	Date/Time: 7/29/15 1830

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

(13)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 29 /2015	COC No: (2) BS 7/29/15
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	2 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☑ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	19. A+A+2CVE (8260B)	21. Glycol Ethers (8015B_DAI)	22. Endothall (548.1)	23. 531.1 CA Regulated List (531.1)	24. 515.4 Herbicides (515.4)	25. Cyanide (5400_CN_E)	26. Glyphosate (547)	27. 123-TCP (GS/MS SIM) (524.2_SIM)	28. CA Reg List - Volatile Org (524.2)	29. Hex Chromium (218.6_ORGFM)	30. HAA5 Haloacetic Acid List (552.2)	31a. Al,Mn,Sn,Th,Ce (200.8)	31b. B, Li (200.7)	31c. Mercury (245.1)	32. Paraquat and Diquat (549.2)	33. TOC (SM5310B)	34. Total Phosphorus (365.3)	Sample Specific Notes:
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	29	N	N	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
Preservation Used:1=Ice;2= HCl;3=H2SO4;4=NH4Cl;5=NaOH;6=C6H8O6;7=Na2S2O3;8=MCAA;9=Na2SO3										7	7,8	9	5	7	2,6			4	HNO3			3,7	2	3	All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.5 / 4.7
3.7 / 3.8
1.1 / 1.8
(74)

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTI	7/29/15 1700	[signature] George Gevorkov	UTC DCS	7/29/15 1700
George Gevorkov	DCS	7/29/15 1830			
			Received in Laboratory by: [signature]	Company: TA	Date/Time: 7/29/15 1830

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 29/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	35a. Chlorite (300.1B_14D)	35b. Bromate,Bromide,Chlorate (300.1B_28D)	36a. Apparent Color (2120B)	36b. Odor (SM2150_Odor_B)	36c. Turbidity (SM2130B)	37.Default+Oxys+CS2+TICS(8260B_LL)	38. Ethanol (8015B_DAI)	39. Perchlorate (314.0_LL)	40. PO4 (300_ORGFMS)	41. Alkalinity (2320B)	42.SulfateChloride(300_ORGFMS_28D)	43. Fluoride (4500_F_C)	44. pH (SM4500_H+)	45. Conductivity (2510B)	46. TDS (2540C_Calcd)	47. MBAS (5540C)	Sample Specific Notes:
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	10	N	N	X		X			X	X				X						
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
Preservation Used:1=Ice;2= HCl;3=Ethylene Diamine									3				2	2										All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.3 4.7
3.1 3.8
1.1 1.5 75

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler ID: | Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/29/15 1700	[signature] George Gevorkian	UTC DCS	7/29/15 1700
George Gevorkian	DCS	7/29/15 1830			
			Received in Laboratory by: [signature]	TA	7/29/15 1830

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 29 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	2 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	51. 525.2 SVOCs (525.2)	52. EDB/DBCP (504.1)	53. Pesticides (505)	54. Coliforms, Total/E. Coli, Quanti Tray (9223_QT_SW)	9. PBDE (Sub-EPA 1614)	20. Radon 222 (Sub-Radon)	48. Asbestos in GW (Sub)	49. EPA 508 (508 - Sub)	50. MOD OPP LowLev (Sub-EPA 525.2)	55. PPCP Pharma-Neg+Pos+ Horomones Group (Sub)	56. VOCs (8260B-LL)	57. Perchlorate (314.0-LL)			Sample Specific Notes:
29072015TB-1	7/29/15	0700	G	W	3	N	N					X	X	No BS 7/29/15				X				
29072015EB-1	7/29/15	0800	G	W	4	N	N											X	X			
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	15	N	N		X	X	X	X	X	X								
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
Preservation Used:1=Ice;2= HCl;3=Na2S2O3;4=Na2SO3;5=NaN3;6=C6H8O6								2,4	3	3	3				2,4		5,6					All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.3
3.9
1.1

4.7
3.8
1.5

75

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp.:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BFS	7/29/15 1700	[signature] George Genovlw	VTG DCS	7/29/15 1700
George Genovlw	DCS	7/29/15 1830			
			Received in Laboratory by: [signature]	TA	7/29/15 1850

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

D

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 29 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	51. 525.2 SVOCs (525.2)	52. EDB/DBCP (504.1)	53. Pesticides (505)	54.Coliforms, Total/E. Coli, Quanti Tray (9223_QT_SW)	9. PBDE (Sub-EPA 1614)	20. Radon 222 (Sub-Radon)	48. Asbestos in GW (Sub)	49. EPA 508 (508 - Sub)	50.MOD OPP LowLev (Sub-EPA 525.2)	55. PPCP Pharma-Neg+Pos+ Horomones Group (Sub)					Sample Specific Notes:
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	8	N	N	X							X	X	X					
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
Preservation Used:1=Ice;2= HCl;3=Na2S2O3;4=Na2SO3;5=NaN3;6=C6H8O6								2,4	3	3	3				2,4		5,6					All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.3
3.4
1.1

4.7
3.8
1.5

74

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/29/15 1700	[signature] George Genovka	UPC DCS	7/29/15 1700
[signature] George Genovka	DCS	7/29/15 1830	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA	Date/Time: 7/29/15 1830

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-116460-2

Login Number: 116460
List Number: 1
Creator: Blocker, Kristina M

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Sampler field on COC is blank.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-116460-2

Login Number: 116460
List Number: 5
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 07/31/15 04:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)						
Lab Sample ID	Client Sample ID	Ba (40-110)						
440-116460-1	EPA-MW-9B-725-GW-29072015	104						
LCS 160-203611/2-A	Lab Control Sample	109						
LCSD 160-203611/3-A	Lab Control Sample Dup	100						
MB 160-203611/1-A	Method Blank	110						

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)						
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)					
440-116460-1	EPA-MW-9B-725-GW-29072015	104	91.2					
LCS 160-203613/2-A	Lab Control Sample	109	91.6					
LCSD 160-203613/3-A	Lab Control Sample Dup	100	88.2					
MB 160-203613/1-A	Method Blank	110	91.6					

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 905 - Strontium-90 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)						
Lab Sample ID	Client Sample ID	Sr (C) (40-110)	Y (40-110)					
440-116460-1	EPA-MW-9B-725-GW-29072015	87.0	92.0					
440-116460-1 DU	EPA-MW-9B-725-GW-29072015	86.6	92.3					
LCS 160-204046/2-A	Lab Control Sample	79.6	90.1					
MB 160-204046/1-A	Method Blank	75.3	92.3					

Tracer/Carrier Legend

Sr (C) = Sr Carrier
Y = Y Carrier

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-116460-3
Client Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

For:
AECOM, Inc.
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Ms. Rebecca Mora

Authorized for release by:
9/1/2015 2:11:39 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-116460-1	EPA-MW-9B-725-GW-29072015	Water	07/29/15 09:40	07/29/15 18:30
440-116460-2	29072015TB-1	Water	07/29/15 07:00	07/29/15 18:30
440-116460-3	29072015EB-1	Water	07/29/15 08:00	07/29/15 18:30

Case Narrative

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Job ID: 440-116460-3

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-116460-3

Comments
Only the EPA 8260B VOC and EPA 314.0 Perchlorate results are included in this report.

Receipt
The samples were received on 7/29/2015 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.5º C, 3.8º C and 4.7º C.

GC/MS VOA
Method(s) 8260B: Sample 29072015EB-1 (440-116460-3) contained 2-Butanone, 2-Methyl-2-propanol, and Acetone above the reporting limit (RL). The sample was re-analyzed with concurring results. The original analysis has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Client Sample ID: EPA-MW-9B-725-GW-29072015

Lab Sample ID: 440-116460-1

Date Collected: 07/29/15 09:40
Matrix: Water
Date Received: 07/29/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			08/11/15 10:57	1
Benzene	ND		0.50		ug/L			08/11/15 10:57	1
Bromobenzene	ND		1.0		ug/L			08/11/15 10:57	1
Bromochloromethane	ND		1.0		ug/L			08/11/15 10:57	1
Bromodichloromethane	ND		1.0		ug/L			08/11/15 10:57	1
Bromoform	ND		1.0		ug/L			08/11/15 10:57	1
Bromomethane	ND		2.0		ug/L			08/11/15 10:57	1
1,3-Butadiene	ND		1.0		ug/L			08/11/15 10:57	1
2-Butanone (MEK)	ND		10		ug/L			08/11/15 10:57	1
Carbon disulfide	ND		2.0		ug/L			08/11/15 10:57	1
Carbon tetrachloride	ND		1.0		ug/L			08/11/15 10:57	1
Chlorobenzene	ND		1.0		ug/L			08/11/15 10:57	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			08/11/15 10:57	1
Chloroethane	ND		1.0		ug/L			08/11/15 10:57	1
Chloroform	ND		1.0		ug/L			08/11/15 10:57	1
Chloromethane	ND		1.0		ug/L			08/11/15 10:57	1
2-Chlorotoluene	ND		2.0		ug/L			08/11/15 10:57	1
4-Chlorotoluene	ND		2.0		ug/L			08/11/15 10:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/11/15 10:57	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/11/15 10:57	1
Dibromochloromethane	ND		1.0		ug/L			08/11/15 10:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/11/15 10:57	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/11/15 10:57	1
Dibromomethane	ND		1.0		ug/L			08/11/15 10:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/11/15 10:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/11/15 10:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/11/15 10:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/11/15 10:57	1
1,1-Dichloroethane	ND		1.0		ug/L			08/11/15 10:57	1
1,2-Dichloroethane	ND		0.50		ug/L			08/11/15 10:57	1
1,1-Dichloroethene	ND		1.0		ug/L			08/11/15 10:57	1
1,2-Dichloropropane	ND		1.0		ug/L			08/11/15 10:57	1
1,3-Dichloropropane	ND		1.0		ug/L			08/11/15 10:57	1
2,2-Dichloropropane	ND		1.0		ug/L			08/11/15 10:57	1
1,1-Dichloropropene	ND		1.0		ug/L			08/11/15 10:57	1
Ethylbenzene	ND		1.0		ug/L			08/11/15 10:57	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			08/11/15 10:57	1
Hexachlorobutadiene	ND		2.0		ug/L			08/11/15 10:57	1
2-Hexanone	ND		10		ug/L			08/11/15 10:57	1
Isopropylbenzene	ND		1.0		ug/L			08/11/15 10:57	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			08/11/15 10:57	1
Methylene Chloride	ND		5.0		ug/L			08/11/15 10:57	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/11/15 10:57	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/11/15 10:57	1
m,p-Xylene	ND		1.0		ug/L			08/11/15 10:57	1
Naphthalene	ND		5.0		ug/L			08/11/15 10:57	1
n-Butylbenzene	ND		2.0		ug/L			08/11/15 10:57	1
N-Propylbenzene	ND		2.0		ug/L			08/11/15 10:57	1
o-Xylene	ND		1.0		ug/L			08/11/15 10:57	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Client Sample ID: EPA-MW-9B-725-GW-29072015

Lab Sample ID: 440-116460-1
Date Collected: 07/29/15 09:40
Matrix: Water
Date Received: 07/29/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			08/11/15 10:57	1
sec-Butylbenzene	ND		2.0	ug/L			08/11/15 10:57	1
Styrene	ND		1.0	ug/L			08/11/15 10:57	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			08/11/15 10:57	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/11/15 10:57	1
tert-Butylbenzene	ND		2.0	ug/L			08/11/15 10:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			08/11/15 10:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/11/15 10:57	1
Tetrachloroethene	ND		1.0	ug/L			08/11/15 10:57	1
Toluene	ND		1.0	ug/L			08/11/15 10:57	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			08/11/15 10:57	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/11/15 10:57	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/11/15 10:57	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			08/11/15 10:57	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/11/15 10:57	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/11/15 10:57	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/11/15 10:57	1
Trichloroethene	ND		1.0	ug/L			08/11/15 10:57	1
Trichlorofluoromethane	ND		1.0	ug/L			08/11/15 10:57	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/11/15 10:57	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/11/15 10:57	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/11/15 10:57	1
Vinyl chloride	ND		0.50	ug/L			08/11/15 10:57	1
Xylenes, Total	ND		2.0	ug/L			08/11/15 10:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1-Hexanol, 2-ethyl-	*38*	*T J N*	*ug/L*		*11.99*	*104-76-7*		*08/11/15 10:57*	*1*
n-Nonyl Aldehyde	*6.0*		*ug/L*		*13.08*	*124-19-6*		*08/11/15 10:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*08/11/15 10:57*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*08/11/15 10:57*	*1*
Toluene-d8 (Surr)	*112*		*80 - 128*		*08/11/15 10:57*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			08/22/15 11:09	1

Client Sample ID: 29072015TB-1

Lab Sample ID: 440-116460-2
Date Collected: 07/29/15 07:00
Matrix: Water
Date Received: 07/29/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			08/11/15 10:00	1
Benzene	ND		0.50	ug/L			08/11/15 10:00	1
Bromobenzene	ND		1.0	ug/L			08/11/15 10:00	1
Bromochloromethane	ND		1.0	ug/L			08/11/15 10:00	1
Bromodichloromethane	ND		1.0	ug/L			08/11/15 10:00	1
Bromoform	ND		1.0	ug/L			08/11/15 10:00	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Client Sample ID: 29072015TB-1

Date Collected: 07/29/15 07:00
Date Received: 07/29/15 18:30

Lab Sample ID: 440-116460-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		2.0		ug/L			08/11/15 10:00	1
1,3-Butadiene	ND		1.0		ug/L			08/11/15 10:00	1
2-Butanone (MEK)	ND		10		ug/L			08/11/15 10:00	1
Carbon disulfide	ND		2.0		ug/L			08/11/15 10:00	1
Carbon tetrachloride	ND		1.0		ug/L			08/11/15 10:00	1
Chlorobenzene	ND		1.0		ug/L			08/11/15 10:00	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			08/11/15 10:00	1
Chloroethane	ND		1.0		ug/L			08/11/15 10:00	1
Chloroform	ND		1.0		ug/L			08/11/15 10:00	1
Chloromethane	ND		1.0		ug/L			08/11/15 10:00	1
2-Chlorotoluene	ND		2.0		ug/L			08/11/15 10:00	1
4-Chlorotoluene	ND		2.0		ug/L			08/11/15 10:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/11/15 10:00	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/11/15 10:00	1
Dibromochloromethane	ND		1.0		ug/L			08/11/15 10:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/11/15 10:00	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/11/15 10:00	1
Dibromomethane	ND		1.0		ug/L			08/11/15 10:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/11/15 10:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/11/15 10:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/11/15 10:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/11/15 10:00	1
1,1-Dichloroethane	ND		1.0		ug/L			08/11/15 10:00	1
1,2-Dichloroethane	ND		0.50		ug/L			08/11/15 10:00	1
1,1-Dichloroethene	ND		1.0		ug/L			08/11/15 10:00	1
1,2-Dichloropropane	ND		1.0		ug/L			08/11/15 10:00	1
1,3-Dichloropropane	ND		1.0		ug/L			08/11/15 10:00	1
2,2-Dichloropropane	ND		1.0		ug/L			08/11/15 10:00	1
1,1-Dichloropropene	ND		1.0		ug/L			08/11/15 10:00	1
Ethylbenzene	ND		1.0		ug/L			08/11/15 10:00	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			08/11/15 10:00	1
Hexachlorobutadiene	ND		2.0		ug/L			08/11/15 10:00	1
2-Hexanone	ND		10		ug/L			08/11/15 10:00	1
Isopropylbenzene	ND		1.0		ug/L			08/11/15 10:00	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			08/11/15 10:00	1
Methylene Chloride	ND		5.0		ug/L			08/11/15 10:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/11/15 10:00	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/11/15 10:00	1
m,p-Xylene	ND		1.0		ug/L			08/11/15 10:00	1
Naphthalene	ND		5.0		ug/L			08/11/15 10:00	1
n-Butylbenzene	ND		2.0		ug/L			08/11/15 10:00	1
N-Propylbenzene	ND		2.0		ug/L			08/11/15 10:00	1
o-Xylene	ND		1.0		ug/L			08/11/15 10:00	1
p-Isopropyltoluene	ND		2.0		ug/L			08/11/15 10:00	1
sec-Butylbenzene	ND		2.0		ug/L			08/11/15 10:00	1
Styrene	ND		1.0		ug/L			08/11/15 10:00	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			08/11/15 10:00	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/11/15 10:00	1
tert-Butylbenzene	ND		2.0		ug/L			08/11/15 10:00	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Client Sample ID: 29072015TB-1

Lab Sample ID: 440-116460-2
Date Collected: 07/29/15 07:00
Matrix: Water
Date Received: 07/29/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			08/11/15 10:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/11/15 10:00	1
Tetrachloroethene	ND		1.0	ug/L			08/11/15 10:00	1
Toluene	ND		1.0	ug/L			08/11/15 10:00	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			08/11/15 10:00	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/11/15 10:00	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/11/15 10:00	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			08/11/15 10:00	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/11/15 10:00	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/11/15 10:00	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/11/15 10:00	1
Trichloroethene	ND		1.0	ug/L			08/11/15 10:00	1
Trichlorofluoromethane	ND		1.0	ug/L			08/11/15 10:00	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/11/15 10:00	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/11/15 10:00	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/11/15 10:00	1
Vinyl chloride	ND		0.50	ug/L			08/11/15 10:00	1
Xylenes, Total	ND		2.0	ug/L			08/11/15 10:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*08/11/15 10:00*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*08/11/15 10:00*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*08/11/15 10:00*	*1*

Client Sample ID: 29072015EB-1

Lab Sample ID: 440-116460-3
Date Collected: 07/29/15 08:00
Matrix: Water
Date Received: 07/29/15 18:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**20**		20	ug/L			08/11/15 10:29	1
Benzene	ND		0.50	ug/L			08/11/15 10:29	1
Bromobenzene	ND		1.0	ug/L			08/11/15 10:29	1
Bromochloromethane	ND		1.0	ug/L			08/11/15 10:29	1
Bromodichloromethane	ND		1.0	ug/L			08/11/15 10:29	1
Bromoform	ND		1.0	ug/L			08/11/15 10:29	1
Bromomethane	ND		2.0	ug/L			08/11/15 10:29	1
1,3-Butadiene	ND		1.0	ug/L			08/11/15 10:29	1
2-Butanone (MEK)	**20**		10	ug/L			08/11/15 10:29	1
Carbon disulfide	ND		2.0	ug/L			08/11/15 10:29	1
Carbon tetrachloride	ND		1.0	ug/L			08/11/15 10:29	1
Chlorobenzene	ND		1.0	ug/L			08/11/15 10:29	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			08/11/15 10:29	1
Chloroethane	ND		1.0	ug/L			08/11/15 10:29	1
Chloroform	ND		1.0	ug/L			08/11/15 10:29	1
Chloromethane	ND		1.0	ug/L			08/11/15 10:29	1
2-Chlorotoluene	ND		2.0	ug/L			08/11/15 10:29	1
4-Chlorotoluene	ND		2.0	ug/L			08/11/15 10:29	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			08/11/15 10:29	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			08/11/15 10:29	1

Client Sample ID: 29072015EB-1
Date Collected: 07/29/15 08:00
Date Received: 07/29/15 18:30

Lab Sample ID: 440-116460-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	ug/L			08/11/15 10:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			08/11/15 10:29	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			08/11/15 10:29	1
Dibromomethane	ND		1.0	ug/L			08/11/15 10:29	1
1,2-Dichlorobenzene	ND		1.0	ug/L			08/11/15 10:29	1
1,3-Dichlorobenzene	ND		1.0	ug/L			08/11/15 10:29	1
1,4-Dichlorobenzene	ND		1.0	ug/L			08/11/15 10:29	1
Dichlorodifluoromethane	ND		1.0	ug/L			08/11/15 10:29	1
1,1-Dichloroethane	ND		1.0	ug/L			08/11/15 10:29	1
1,2-Dichloroethane	ND		0.50	ug/L			08/11/15 10:29	1
1,1-Dichloroethene	ND		1.0	ug/L			08/11/15 10:29	1
1,2-Dichloropropane	ND		1.0	ug/L			08/11/15 10:29	1
1,3-Dichloropropane	ND		1.0	ug/L			08/11/15 10:29	1
2,2-Dichloropropane	ND		1.0	ug/L			08/11/15 10:29	1
1,1-Dichloropropene	ND		1.0	ug/L			08/11/15 10:29	1
Ethylbenzene	ND		1.0	ug/L			08/11/15 10:29	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			08/11/15 10:29	1
Hexachlorobutadiene	ND		2.0	ug/L			08/11/15 10:29	1
2-Hexanone	ND		10	ug/L			08/11/15 10:29	1
Isopropylbenzene	ND		1.0	ug/L			08/11/15 10:29	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			08/11/15 10:29	1
Methylene Chloride	ND		5.0	ug/L			08/11/15 10:29	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			08/11/15 10:29	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			08/11/15 10:29	1
m,p-Xylene	ND		1.0	ug/L			08/11/15 10:29	1
Naphthalene	ND		5.0	ug/L			08/11/15 10:29	1
n-Butylbenzene	ND		2.0	ug/L			08/11/15 10:29	1
N-Propylbenzene	ND		2.0	ug/L			08/11/15 10:29	1
o-Xylene	ND		1.0	ug/L			08/11/15 10:29	1
p-Isopropyltoluene	ND		2.0	ug/L			08/11/15 10:29	1
sec-Butylbenzene	ND		2.0	ug/L			08/11/15 10:29	1
Styrene	ND		1.0	ug/L			08/11/15 10:29	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			08/11/15 10:29	1
tert-Butyl alcohol (TBA)	**17**		10	ug/L			08/11/15 10:29	1
tert-Butylbenzene	ND		2.0	ug/L			08/11/15 10:29	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			08/11/15 10:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/11/15 10:29	1
Tetrachloroethene	ND		1.0	ug/L			08/11/15 10:29	1
Toluene	ND		1.0	ug/L			08/11/15 10:29	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			08/11/15 10:29	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/11/15 10:29	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/11/15 10:29	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			08/11/15 10:29	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/11/15 10:29	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/11/15 10:29	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/11/15 10:29	1
Trichloroethene	ND		1.0	ug/L			08/11/15 10:29	1
Trichlorofluoromethane	ND		1.0	ug/L			08/11/15 10:29	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/11/15 10:29	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Client Sample ID: 29072015EB-1

Date Collected: 07/29/15 08:00
Date Received: 07/29/15 18:30

Lab Sample ID: 440-116460-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/11/15 10:29	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/11/15 10:29	1
Vinyl chloride	ND		0.50	ug/L			08/11/15 10:29	1
Xylenes, Total	ND		2.0	ug/L			08/11/15 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*08/11/15 10:29*	*1*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*08/11/15 10:29*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*08/11/15 10:29*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			08/20/15 11:14	1

Method Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
314.0 LL	Perchlorate (IC)	EPA	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Client Sample ID: EPA-MW-9B-725-GW-29072015 — Lab Sample ID: 440-116460-1

Date Collected: 07/29/15 09:40
Date Received: 07/29/15 18:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	272315	08/11/15 10:57	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		275262	08/22/15 11:09	CH	TAL IRV

Client Sample ID: 29072015TB-1 — Lab Sample ID: 440-116460-2

Date Collected: 07/29/15 07:00
Date Received: 07/29/15 18:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	272315	08/11/15 10:00	SS	TAL IRV

Client Sample ID: 29072015EB-1 — Lab Sample ID: 440-116460-3

Date Collected: 07/29/15 08:00
Date Received: 07/29/15 18:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	272315	08/11/15 10:29	SS	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		274635	08/20/15 11:14	CH	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-272315/4
Matrix: Water
Analysis Batch: 272315

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			08/11/15 07:50	1
Benzene	ND		0.50		ug/L			08/11/15 07:50	1
Bromobenzene	ND		1.0		ug/L			08/11/15 07:50	1
Bromochloromethane	ND		1.0		ug/L			08/11/15 07:50	1
Bromodichloromethane	ND		1.0		ug/L			08/11/15 07:50	1
Bromoform	ND		1.0		ug/L			08/11/15 07:50	1
Bromomethane	ND		2.0		ug/L			08/11/15 07:50	1
1,3-Butadiene	ND		1.0		ug/L			08/11/15 07:50	1
2-Butanone (MEK)	ND		10		ug/L			08/11/15 07:50	1
Carbon disulfide	ND		2.0		ug/L			08/11/15 07:50	1
Carbon tetrachloride	ND		1.0		ug/L			08/11/15 07:50	1
Chlorobenzene	ND		1.0		ug/L			08/11/15 07:50	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			08/11/15 07:50	1
Chloroethane	ND		1.0		ug/L			08/11/15 07:50	1
Chloroform	ND		1.0		ug/L			08/11/15 07:50	1
Chloromethane	ND		1.0		ug/L			08/11/15 07:50	1
2-Chlorotoluene	ND		2.0		ug/L			08/11/15 07:50	1
4-Chlorotoluene	ND		2.0		ug/L			08/11/15 07:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/11/15 07:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/11/15 07:50	1
Dibromochloromethane	ND		1.0		ug/L			08/11/15 07:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/11/15 07:50	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/11/15 07:50	1
Dibromomethane	ND		1.0		ug/L			08/11/15 07:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/11/15 07:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/11/15 07:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/11/15 07:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/11/15 07:50	1
1,1-Dichloroethane	ND		1.0		ug/L			08/11/15 07:50	1
1,2-Dichloroethane	ND		0.50		ug/L			08/11/15 07:50	1
1,1-Dichloroethene	ND		1.0		ug/L			08/11/15 07:50	1
1,2-Dichloropropane	ND		1.0		ug/L			08/11/15 07:50	1
1,3-Dichloropropane	ND		1.0		ug/L			08/11/15 07:50	1
2,2-Dichloropropane	ND		1.0		ug/L			08/11/15 07:50	1
1,1-Dichloropropene	ND		1.0		ug/L			08/11/15 07:50	1
Ethylbenzene	ND		1.0		ug/L			08/11/15 07:50	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			08/11/15 07:50	1
Hexachlorobutadiene	ND		2.0		ug/L			08/11/15 07:50	1
2-Hexanone	ND		10		ug/L			08/11/15 07:50	1
Isopropylbenzene	ND		1.0		ug/L			08/11/15 07:50	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			08/11/15 07:50	1
Methylene Chloride	ND		5.0		ug/L			08/11/15 07:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/11/15 07:50	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/11/15 07:50	1
m,p-Xylene	ND		1.0		ug/L			08/11/15 07:50	1
Naphthalene	ND		5.0		ug/L			08/11/15 07:50	1
n-Butylbenzene	ND		2.0		ug/L			08/11/15 07:50	1
N-Propylbenzene	ND		2.0		ug/L			08/11/15 07:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-272315/4
Matrix: Water
Analysis Batch: 272315

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			08/11/15 07:50	1
p-Isopropyltoluene	ND		2.0		ug/L			08/11/15 07:50	1
sec-Butylbenzene	ND		2.0		ug/L			08/11/15 07:50	1
Styrene	ND		1.0		ug/L			08/11/15 07:50	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			08/11/15 07:50	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/11/15 07:50	1
tert-Butylbenzene	ND		2.0		ug/L			08/11/15 07:50	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/11/15 07:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/11/15 07:50	1
Tetrachloroethene	ND		1.0		ug/L			08/11/15 07:50	1
Toluene	ND		1.0		ug/L			08/11/15 07:50	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			08/11/15 07:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/11/15 07:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/11/15 07:50	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			08/11/15 07:50	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			08/11/15 07:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/11/15 07:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/11/15 07:50	1
Trichloroethene	ND		1.0		ug/L			08/11/15 07:50	1
Trichlorofluoromethane	ND		1.0		ug/L			08/11/15 07:50	1
1,2,3-Trichloropropane	ND		2.0		ug/L			08/11/15 07:50	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			08/11/15 07:50	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			08/11/15 07:50	1
Vinyl chloride	ND		0.50		ug/L			08/11/15 07:50	1
Xylenes, Total	ND		2.0		ug/L			08/11/15 07:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*08/11/15 07:50*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*08/11/15 07:50*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*08/11/15 07:50*	*1*

Lab Sample ID: LCS 440-272315/5
Matrix: Water
Analysis Batch: 272315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	26.7		ug/L		107	10 - 150
Benzene	25.0	25.1		ug/L		100	68 - 130
Bromobenzene	25.0	24.2		ug/L		97	70 - 130
Bromochloromethane	25.0	21.1		ug/L		84	70 - 130
Bromodichloromethane	25.0	25.7		ug/L		103	70 - 132
Bromoform	25.0	24.5		ug/L		98	60 - 148
Bromomethane	25.0	22.3		ug/L		89	64 - 139
2-Butanone (MEK)	25.0	22.3		ug/L		89	44 - 150
Carbon disulfide	25.0	24.4		ug/L		98	52 - 136
Carbon tetrachloride	25.0	26.6		ug/L		107	60 - 150
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130
Chloroethane	25.0	22.7		ug/L		91	64 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-272315/5
Matrix: Water
Analysis Batch: 272315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	25.4		ug/L		102	70 - 130
Chloromethane	25.0	22.4		ug/L		90	47 - 140
2-Chlorotoluene	25.0	27.7		ug/L		111	70 - 130
4-Chlorotoluene	25.0	27.5		ug/L		110	70 - 130
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 133
cis-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 133
Dibromochloromethane	25.0	23.4		ug/L		94	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	26.2		ug/L		105	52 - 140
1,2-Dibromoethane (EDB)	25.0	26.0		ug/L		104	70 - 130
Dibromomethane	25.0	24.8		ug/L		99	70 - 130
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
Dichlorodifluoromethane	25.0	19.1		ug/L		77	29 - 150
1,1-Dichloroethane	25.0	25.2		ug/L		101	64 - 130
1,2-Dichloroethane	25.0	26.2		ug/L		105	57 - 138
1,1-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
1,2-Dichloropropane	25.0	26.1		ug/L		104	67 - 130
1,3-Dichloropropane	25.0	26.0		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	27.2		ug/L		109	68 - 141
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
Ethylbenzene	25.0	27.0		ug/L		108	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	27.2		ug/L		109	60 - 136
Hexachlorobutadiene	25.0	23.7		ug/L		95	10 - 150
2-Hexanone	25.0	27.0		ug/L		108	10 - 150
Isopropylbenzene	25.0	27.7		ug/L		111	70 - 136
Isopropyl Ether (DIPE)	25.0	30.3		ug/L		121	58 - 139
Methylene Chloride	25.0	24.9		ug/L		100	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	27.8		ug/L		111	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	25.8		ug/L		103	63 - 131
m,p-Xylene	25.0	27.3		ug/L		109	70 - 130
Naphthalene	25.0	23.7		ug/L		95	60 - 140
n-Butylbenzene	25.0	29.3		ug/L		117	65 - 150
N-Propylbenzene	25.0	28.2		ug/L		113	67 - 139
o-Xylene	25.0	27.8		ug/L		111	70 - 130
p-Isopropyltoluene	25.0	27.5		ug/L		110	70 - 132
sec-Butylbenzene	25.0	27.5		ug/L		110	70 - 138
Styrene	25.0	26.7		ug/L		107	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	25.6		ug/L		102	57 - 139
tert-Butyl alcohol (TBA)	250	264		ug/L		106	70 - 130
tert-Butylbenzene	25.0	26.6		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.0		ug/L		100	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.8		ug/L		99	63 - 130
Tetrachloroethene	25.0	23.9		ug/L		96	70 - 130
Toluene	25.0	26.9		ug/L		107	70 - 130
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 132
1,2,3-Trichlorobenzene	25.0	23.8		ug/L		95	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-272315/5
Matrix: Water
Analysis Batch: 272315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	60 - 140
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	70 - 130
Trichloroethene	25.0	24.0		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	25.1		ug/L		100	60 - 150
1,2,3-Trichloropropane	25.0	26.3		ug/L		105	63 - 130
1,2,4-Trimethylbenzene	25.0	28.3		ug/L		113	70 - 135
1,3,5-Trimethylbenzene	25.0	27.8		ug/L		111	70 - 136
Vinyl chloride	25.0	23.1		ug/L		92	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
Toluene-d8 (Surr)	*109*		*80 - 128*

Lab Sample ID: 440-116460-1 MS
Matrix: Water
Analysis Batch: 272315

Client Sample ID: EPA-MW-9B-725-GW-29072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	32.1		ug/L		97	10 - 150
Benzene	ND		25.0	25.5		ug/L		102	66 - 130
Bromobenzene	ND		25.0	25.1		ug/L		100	70 - 130
Bromochloromethane	ND		25.0	22.0		ug/L		88	70 - 130
Bromodichloromethane	ND		25.0	26.2		ug/L		105	70 - 138
Bromoform	ND		25.0	24.2		ug/L		97	59 - 150
Bromomethane	ND		25.0	21.9		ug/L		88	62 - 131
2-Butanone (MEK)	ND		25.0	26.1		ug/L		104	48 - 140
Carbon disulfide	ND		25.0	23.7		ug/L		95	49 - 140
Carbon tetrachloride	ND		25.0	26.8		ug/L		107	60 - 150
Chlorobenzene	ND		25.0	24.9		ug/L		100	70 - 130
Chloroethane	ND		25.0	21.9		ug/L		88	68 - 130
Chloroform	ND		25.0	26.5		ug/L		106	70 - 130
Chloromethane	ND		25.0	21.0		ug/L		84	39 - 144
2-Chlorotoluene	ND		25.0	28.7		ug/L		115	70 - 130
4-Chlorotoluene	ND		25.0	29.3		ug/L		117	70 - 130
cis-1,2-Dichloroethene	ND		25.0	24.4		ug/L		98	70 - 130
cis-1,3-Dichloropropene	ND		25.0	27.6		ug/L		111	70 - 133
Dibromochloromethane	ND		25.0	23.8		ug/L		95	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	28.5		ug/L		114	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	26.8		ug/L		107	70 - 131
Dibromomethane	ND		25.0	25.8		ug/L		103	70 - 130
1,2-Dichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130
1,4-Dichlorobenzene	ND		25.0	26.4		ug/L		105	70 - 130
Dichlorodifluoromethane	ND		25.0	15.6		ug/L		63	25 - 142
1,1-Dichloroethane	ND		25.0	25.6		ug/L		102	65 - 130
1,2-Dichloroethane	ND		25.0	27.4		ug/L		108	56 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116460-1 MS
Matrix: Water
Analysis Batch: 272315

Client Sample ID: EPA-MW-9B-725-GW-29072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		25.0	24.7		ug/L		99	70 - 130
1,2-Dichloropropane	ND		25.0	25.8		ug/L		103	69 - 130
1,3-Dichloropropane	ND		25.0	26.3		ug/L		105	70 - 130
2,2-Dichloropropane	ND		25.0	27.7		ug/L		111	69 - 138
1,1-Dichloropropene	ND		25.0	25.4		ug/L		102	64 - 130
Ethylbenzene	ND		25.0	27.7		ug/L		111	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.7		ug/L		107	70 - 130
Hexachlorobutadiene	ND		25.0	25.4		ug/L		102	10 - 150
2-Hexanone	ND		25.0	27.2		ug/L		109	10 - 150
Isopropylbenzene	ND		25.0	28.6		ug/L		114	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	29.9		ug/L		120	64 - 138
Methylene Chloride	ND		25.0	24.6		ug/L		98	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	28.9		ug/L		116	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.7		ug/L		99	70 - 130
m,p-Xylene	ND		25.0	26.9		ug/L		108	70 - 133
Naphthalene	ND		25.0	25.5		ug/L		102	60 - 140
n-Butylbenzene	ND		25.0	31.0		ug/L		124	61 - 149
N-Propylbenzene	ND		25.0	29.4		ug/L		118	66 - 135
o-Xylene	ND		25.0	28.1		ug/L		112	70 - 133
p-Isopropyltoluene	ND		25.0	28.4		ug/L		113	70 - 130
sec-Butylbenzene	ND		25.0	29.8		ug/L		119	67 - 134
Styrene	ND		25.0	27.3		ug/L		109	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	25.7		ug/L		103	68 - 133
tert-Butyl alcohol (TBA)	ND		250	283		ug/L		113	70 - 130
tert-Butylbenzene	ND		25.0	27.6		ug/L		110	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	25.4		ug/L		101	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	26.5		ug/L		106	63 - 130
Tetrachloroethene	ND		25.0	24.1		ug/L		96	70 - 137
Toluene	ND		25.0	27.7		ug/L		109	70 - 130
trans-1,2-Dichloroethene	ND		25.0	24.0		ug/L		96	70 - 130
trans-1,3-Dichloropropene	ND		25.0	27.0		ug/L		108	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	24.7		ug/L		99	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.9		ug/L		104	60 - 140
1,1,1-Trichloroethane	ND		25.0	26.2		ug/L		105	70 - 130
1,1,2-Trichloroethane	ND		25.0	26.4		ug/L		106	70 - 130
Trichloroethene	ND		25.0	23.9		ug/L		96	70 - 130
Trichlorofluoromethane	ND		25.0	25.2		ug/L		101	60 - 150
1,2,3-Trichloropropane	ND		25.0	27.6		ug/L		110	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	29.2		ug/L		117	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	28.5		ug/L		114	70 - 130
Vinyl chloride	ND		25.0	22.2		ug/L		89	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
Toluene-d8 (Surr)	*110*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116460-1 MSD
Matrix: Water
Analysis Batch: 272315

Client Sample ID: EPA-MW-9B-725-GW-29072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	30.9		ug/L		92	10 - 150	4	35
Benzene	ND		25.0	26.1		ug/L		104	66 - 130	2	20
Bromobenzene	ND		25.0	24.1		ug/L		96	70 - 130	4	20
Bromochloromethane	ND		25.0	21.8		ug/L		87	70 - 130	1	25
Bromodichloromethane	ND		25.0	24.9		ug/L		100	70 - 138	5	20
Bromoform	ND		25.0	24.0		ug/L		96	59 - 150	1	25
Bromomethane	ND		25.0	22.3		ug/L		89	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	24.0		ug/L		96	48 - 140	8	40
Carbon disulfide	ND		25.0	24.5		ug/L		98	49 - 140	3	20
Carbon tetrachloride	ND		25.0	27.8		ug/L		111	60 - 150	4	25
Chlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130	1	20
Chloroethane	ND		25.0	23.0		ug/L		92	68 - 130	5	25
Chloroform	ND		25.0	25.7		ug/L		103	70 - 130	3	20
Chloromethane	ND		25.0	22.6		ug/L		91	39 - 144	8	25
2-Chlorotoluene	ND		25.0	29.4		ug/L		118	70 - 130	2	20
4-Chlorotoluene	ND		25.0	29.4		ug/L		117	70 - 130	0	20
cis-1,2-Dichloroethene	ND		25.0	24.2		ug/L		97	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	70 - 133	2	20
Dibromochloromethane	ND		25.0	23.9		ug/L		96	70 - 148	0	25
1,2-Dibromo-3-Chloropropane	ND		25.0	27.7		ug/L		111	48 - 140	3	30
1,2-Dibromoethane (EDB)	ND		25.0	25.9		ug/L		104	70 - 131	3	25
Dibromomethane	ND		25.0	25.0		ug/L		100	70 - 130	3	25
1,2-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130	5	20
1,3-Dichlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130	0	20
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		104	70 - 130	2	20
Dichlorodifluoromethane	ND		25.0	16.4		ug/L		66	25 - 142	5	30
1,1-Dichloroethane	ND		25.0	25.9		ug/L		104	65 - 130	1	20
1,2-Dichloroethane	ND		25.0	26.9		ug/L		106	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	24.2		ug/L		97	70 - 130	2	20
1,2-Dichloropropane	ND		25.0	26.7		ug/L		107	69 - 130	3	20
1,3-Dichloropropane	ND		25.0	26.0		ug/L		104	70 - 130	1	25
2,2-Dichloropropane	ND		25.0	29.2		ug/L		117	69 - 138	5	25
1,1-Dichloropropene	ND		25.0	26.8		ug/L		107	64 - 130	5	20
Ethylbenzene	ND		25.0	28.6		ug/L		114	70 - 130	3	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.0		ug/L		104	70 - 130	3	25
Hexachlorobutadiene	ND		25.0	24.9		ug/L		99	10 - 150	2	20
2-Hexanone	ND		25.0	26.5		ug/L		106	10 - 150	3	35
Isopropylbenzene	ND		25.0	29.6		ug/L		119	70 - 132	4	20
Isopropyl Ether (DIPE)	ND		25.0	30.0		ug/L		120	64 - 138	0	25
Methylene Chloride	ND		25.0	24.4		ug/L		97	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	27.2		ug/L		109	52 - 150	6	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	23.9		ug/L		96	70 - 130	3	25
m,p-Xylene	ND		25.0	28.0		ug/L		112	70 - 133	4	25
Naphthalene	ND		25.0	25.3		ug/L		101	60 - 140	1	30
n-Butylbenzene	ND		25.0	32.1		ug/L		128	61 - 149	4	20
N-Propylbenzene	ND		25.0	29.8		ug/L		119	66 - 135	1	20
o-Xylene	ND		25.0	28.4		ug/L		113	70 - 133	1	20
p-Isopropyltoluene	ND		25.0	29.1		ug/L		116	70 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116460-1 MSD — **Client Sample ID: EPA-MW-9B-725-GW-29072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 272315

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	30.1		ug/L		120	67 - 134	1	20
Styrene	ND		25.0	27.0		ug/L		108	29 - 150	1	35
Tert-amyl-methyl ether (TAME)	ND		25.0	24.6		ug/L		98	68 - 133	4	30
tert-Butyl alcohol (TBA)	ND		250	276		ug/L		110	70 - 130	3	25
tert-Butylbenzene	ND		25.0	28.2		ug/L		113	70 - 130	2	20
1,1,1,2-Tetrachloroethane	ND		25.0	26.2		ug/L		105	60 - 149	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	25.6		ug/L		102	63 - 130	4	30
Tetrachloroethene	ND		25.0	25.5		ug/L		102	70 - 137	6	20
Toluene	ND		25.0	27.9		ug/L		110	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	24.9		ug/L		100	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	26.5		ug/L		106	70 - 138	2	25
1,2,3-Trichlorobenzene	ND		25.0	24.8		ug/L		99	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		25.0	25.5		ug/L		102	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	26.7		ug/L		107	70 - 130	2	20
1,1,2-Trichloroethane	ND		25.0	26.3		ug/L		105	70 - 130	1	25
Trichloroethene	ND		25.0	25.4		ug/L		102	70 - 130	6	20
Trichlorofluoromethane	ND		25.0	26.2		ug/L		105	60 - 150	4	25
1,2,3-Trichloropropane	ND		25.0	25.3		ug/L		101	60 - 130	9	30
1,2,4-Trimethylbenzene	ND		25.0	28.3		ug/L		113	70 - 130	3	25
1,3,5-Trimethylbenzene	ND		25.0	28.0		ug/L		112	70 - 130	2	20
Vinyl chloride	ND		25.0	24.9		ug/L		100	50 - 137	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
Toluene-d8 (Surr)	*112*		*80 - 128*

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 440-274635/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 274635

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			08/20/15 08:58	1

Lab Sample ID: LCS 440-274635/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 274635

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	23.5		ug/L		94	85 - 115		

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 440-274635/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 274635

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.15		ug/L		104	75 - 125

Lab Sample ID: 440-116460-3 MS — **Client Sample ID: 29072015EB-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 274635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	24.4		ug/L		97	80 - 120

Lab Sample ID: 440-116460-3 MSD — **Client Sample ID: 29072015EB-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 274635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	24.4		ug/L		97	80 - 120	0	20

Lab Sample ID: MB 440-275262/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 275262

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			08/22/15 09:54	1

Lab Sample ID: LCS 440-275262/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 275262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	24.9		ug/L		100	85 - 115

Lab Sample ID: MRL 440-275262/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 275262

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.14		ug/L		103	75 - 125

Lab Sample ID: 440-116460-1 MS — **Client Sample ID: EPA-MW-9B-725-GW-29072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 275262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	24.7		ug/L		99	80 - 120

Lab Sample ID: 440-116460-1 MSD — **Client Sample ID: EPA-MW-9B-725-GW-29072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 275262

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	24.6		ug/L		98	80 - 120	0	20

QC Association Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

GC/MS VOA

Analysis Batch: 272315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116460-1	EPA-MW-9B-725-GW-29072015	Total/NA	Water	8260B	
440-116460-1 MS	EPA-MW-9B-725-GW-29072015	Total/NA	Water	8260B	
440-116460-1 MSD	EPA-MW-9B-725-GW-29072015	Total/NA	Water	8260B	
440-116460-2	29072015TB-1	Total/NA	Water	8260B	
440-116460-3	29072015EB-1	Total/NA	Water	8260B	
LCS 440-272315/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-272315/4	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 274635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116460-3	29072015EB-1	Total/NA	Water	314.0 LL	
440-116460-3 MS	29072015EB-1	Total/NA	Water	314.0 LL	
440-116460-3 MSD	29072015EB-1	Total/NA	Water	314.0 LL	
LCS 440-274635/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-274635/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-274635/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Analysis Batch: 275262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116460-1	EPA-MW-9B-725-GW-29072015	Total/NA	Water	314.0 LL	
440-116460-1 MS	EPA-MW-9B-725-GW-29072015	Total/NA	Water	314.0 LL	
440-116460-1 MSD	EPA-MW-9B-725-GW-29072015	Total/NA	Water	314.0 LL	
LCS 440-275262/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-275262/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-275262/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Qualifiers

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116460-3

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-16 *
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

* Certification renewal pending - certification considered valid.

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Chain of Custody Record

(A)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: / /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	____ of ____ COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	1. Tritium (906.0)	2. Gross Alpha and Beta (900.0)	3. Radium 226 (903.0)	4. Radium 228 (904.0)	5. Stontium 90 (905_Sr90)	6. Iodide (300_ORGFM_28D)	7. Methyl Mercury (1630)	8. Carbamates (8321A_Carbamate)	10. Explosives (8321A_Explosive)	11. OP Pesticides (8141A)	12. Dioxins/Furans (1613B)	13. 1,4-Dioxane (8270C_SIM)	14. Semivolatiles (8270C_LL)	15. Formaldehyde (8315)	16. NDMA (1625_CI)	17. C13-C22/C23-C40 (8015B_Dro)	18. Glycols (8015C_DAI_GLY)	Sample Specific Notes:
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	14	N	N									X	X	X	X	X	X	X	X		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
										4				2											All samples: 1

440-116460 Chain of Custody

Preservation Used:1=Ice;2= HCl;3=H2SO4;4=HNO3;5=NaOH;6=C2H3ClO2;7=Na2S2O3;8=MCAA

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.3
3.4
1.1

4.7
3.8
1.3

75

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Id: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTJ	7.29.15 1700	George Gerenlow	UTC DCS	7/29/15 1700
George Gerenlow	DCS	7/29/15 1830			
			Received in Laboratory by: [signature]	TA	7/29/15 1830

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

(B)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 29 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	1. Tritium (906.0)	2. Gross Alpha and Beta (900.0)	3. Radium 226 (903.0)	4. Radium 228 (904.0)	5. Stontium 90 (905_Sr90)	6. Iodide (300_ORGFM_28D)	7. Methyl Mercury (1630)	8. Carbamates (8321A_Carbamate)	10. Explosives (8321A_Explosive)	11. OP Pesticides (8141A)	12. Dioxins/Furans (1613B)	13. 1,4-Dioxane (8270C_SIM)	14. Semivolatiles (8270C_LL)	15. Formaldehyde (8315)	16. NDMA (1625_Cl)	17. C13-C22/C23-C40 (8015B_Dro)	18. Glycols (8015C_DAI_GLY)	Sample Specific Notes:
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	10 + 1 mercury kit	N	N	X	X	X	X	X	X	X	X									X	Mercury kit has 2 vials. 12 total containers
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
										4				2											All samples: 1

Preservation Used:1=Ice;2= HCl;3=H2SO4;4=HNO3;5=NaOH;6=C2H3ClO2;7=Na2S2O3;8=MCAA

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.3 3.1 1.1 4.7 3.8 1.5 (75)

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp.: _____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/29/15 1700	[signature] George Genovlaw	UTC DCS	7/29/15 1700
[signature] George Genovlaw	DCS	7/29/15 1830	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA	Date/Time: 7/29/15 1830

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
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phone 949.261.1022 fax

Chain of Custody Record

(13)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 29 /2015	COC No: (2) BS 7/29/15
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	2 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☑ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	19. A+A+2CVE (8260B)	21. Glycol Ethers (8015B_DAI)	22. Endothall (548.1)	23. 531.1 CA Regulated List (531.1)	24. 515.4 Herbicides (515.4)	25. Cyanide (5400_CN_E)	26. Glyphosate (547)	27. 123-TCP (GS/MS SIM) (524.2_SIM)	28. CA Reg List - Volatile Org (524.2)	29. Hex Chromium (218.6_ORGFM)	30. HAA5 Haloacetic Acid List (552.2)	31a. Al,Mn,Sn,Th,Ce (200.8)	31b. B, Li (200.7)	31c. Mercury (245.1)	32. Paraquat and Diquat (549.2)	33. TOC (SM5310B)	34. Total Phosphorus (365.3)	Sample Specific Notes:
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	29	N	N	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
Preservation Used:1=Ice;2= HCl;3=H2SO4;4=NH4Cl;5=NaOH;6=C6H8O6;7=Na2S2O3;8=MCAA;9=Na2SO3										7	7,8	9	5	7	2,6			4	HNO3			3,7	2	3	All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.5 / 4.7
3.7 / 3.8
1.1 / 1.8
(74)

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTI	7/29/15 1700	[signature] George Genovkov	UTC DCS	7/29/15 1700
[signature] George Genovkov	DCS	7/29/15 1830			
			Received in Laboratory by: [signature]	Company: TA	Date/Time: 7/29/15 1830

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 29/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	35a. Chlorite (300.1B_14D)	35b. Bromate,Bromide,Chlorate (300.1B_28D)	36a. Apparent Color (2120B)	36b. Odor (SM2150_Odor_B)	36c. Turbidity (SM2130B)	37.Default+Oxys+CS2+TICS(8260B_LL)	38. Ethanol (8015B_DAI)	39. Perchlorate (314.0_LL)	40. PO4 (300_ORGFMS)	41. Alkalinity (2320B)	42.SulfateChloride(300_ORGFMS_28D)	43. Fluoride (4500_F_C)	44. pH (SM4500_H+)	45. Conductivity (2510B)	46. TDS (2540C_Calcd)	47. MBAS (5540C)	Sample Specific Notes:
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	10	N	N	X		X			X	X				X						
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
Preservation Used:1=Ice;2= HCl;3=Ethylene Diamine									3				2	2										All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.3 4.7
3.1 3.8
1.1 1.5 75

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler ID: | Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/29/15 1700	[signature] George Gevorkian	UTC DCS	7/29/15 1700
[signature] George Gevorkian	DCS	7/29/15 1830	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA	Date/Time: 7/29/15 1830

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
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Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 29 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	2 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	51. 525.2 SVOCs (525.2)	52. EDB/DBCP (504.1)	53. Pesticides (505)	54.Coliforms, Total/E. Coli, Quanti Tray (9223_QT_SW)	9. PBDE (Sub-EPA 1614)	20. Radon 222 (Sub-Radon)	48. Asbestos in GW (Sub)	49. EPA 508 (508 - Sub)	50.MOD OPP LowLev (Sub-EPA 525.2)	55. PPCP Pharma-Neg+Pos+ Horomones Group (Sub)	56. VOCs (8260B-LL)	57. Perchlorate (314.0-LL)			Sample Specific Notes:
29072015TB-1	7/29/15	0700	G	W	3	N	N					X	X	No BS 7/29/15				X				
29072015EB-1	7/29/15	0800	G	W	4	N	N											X	X			
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	15	N	N		X	X	X	X	X	X								
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
Preservation Used:1=Ice;2= HCl;3=Na2S2O3;4=Na2SO3;5=NaN3;6=C6H8O6								2,4	3	3	3				2,4		5,6					All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.3
3.9
1.1

4.7
3.8
1.5

75

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp.:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BFS	7/29/15 1700	[signature] George Genovlw	VTG DCS	7/29/15 1700
George Genovlw	DCS	7/29/15 1830			
			Received in Laboratory by: [signature]	TA	7/29/15 1850

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
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Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

D

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 29 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler:
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	51. 525.2 SVOCs (525.2)	52. EDB/DBCP (504.1)	53. Pesticides (505)	54.Coliforms, Total/E. Coli, Quanti Tray (9223_QT_SW)	9. PBDE (Sub-EPA 1614)	20. Radon 222 (Sub-Radon)	48. Asbestos in GW (Sub)	49. EPA 508 (508 - Sub)	50.MOD OPP LowLev (Sub-EPA 525.2)	55. PPCP Pharma-Neg+Pos+ Horomones Group (Sub)					Sample Specific Notes:
EPA-MW-9B-725-GW-29072015	7/29/15	0940	G	W	8	N	N	X							X	X	X					
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
	/ /15		G	W		N	N															
Preservation Used:1=Ice;2= HCl;3=Na2S2O3;4=Na2SO3;5=NaN3;6=C6H8O6								2,4	3	3	3				2,4		5,6					All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

4.3
3.4
1.1

4.7
3.8
1.5

74

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler ID: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/29/15 1700	[signature] George Genovka	UPC DCS	7/29/15 1700
[signature] George Genovka	DCS	7/29/15 1830			
			Received in Laboratory by: [signature]	TA	7/29/15 1830

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-116460-3

Login Number: 116460
List Number: 1
Creator: Blocker, Kristina M

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Sampler field on COC is blank.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-116578-3
Client Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

For:
AECOM, Inc.
999 Town & Country Road
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Orange, California 92868

Attn: Ms. Rebecca Mora

Authorized for release by:
9/1/2015 2:14:54 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-116578-1	EPA-MW-9A-535-GW-30072015	Water	07/30/15 08:30	07/30/15 18:45
440-116578-2	CAM-MW-1A-535-GW-30072015	Water	07/30/15 08:30	07/30/15 18:45
440-116578-3	30072015EB-1	Water	07/30/15 07:20	07/30/15 18:45
440-116578-4	30072015TB-1	Water	07/30/15 07:00	07/30/15 18:45

Case Narrative

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Job ID: 440-116578-3

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-116578-3

Comments
Only the EPA 8260B VOC and EPA 314.0 Perchlorate results are included in this report.

Receipt
The samples were received on 7/30/2015 6:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 3.9º C, 5.2º C, 5.4º C, 5.4º C and 5.6º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Client Sample ID: EPA-MW-9A-535-GW-30072015

Lab Sample ID: 440-116578-1

Date Collected: 07/30/15 08:30
Matrix: Water
Date Received: 07/30/15 18:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			08/13/15 11:23	1
Benzene	ND		0.50		ug/L			08/13/15 11:23	1
Bromobenzene	ND		1.0		ug/L			08/13/15 11:23	1
Bromochloromethane	ND		1.0		ug/L			08/13/15 11:23	1
Bromodichloromethane	ND		1.0		ug/L			08/13/15 11:23	1
Bromoform	ND		1.0		ug/L			08/13/15 11:23	1
Bromomethane	ND		2.0		ug/L			08/13/15 11:23	1
1,3-Butadiene	ND		1.0		ug/L			08/13/15 11:23	1
2-Butanone (MEK)	ND		10		ug/L			08/13/15 11:23	1
Carbon disulfide	ND		2.0		ug/L			08/13/15 11:23	1
Carbon tetrachloride	ND		1.0		ug/L			08/13/15 11:23	1
Chlorobenzene	ND		1.0		ug/L			08/13/15 11:23	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			08/13/15 11:23	1
Chloroethane	ND		1.0		ug/L			08/13/15 11:23	1
Chloroform	ND		1.0		ug/L			08/13/15 11:23	1
Chloromethane	ND		1.0		ug/L			08/13/15 11:23	1
2-Chlorotoluene	ND		2.0		ug/L			08/13/15 11:23	1
4-Chlorotoluene	ND		2.0		ug/L			08/13/15 11:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/13/15 11:23	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/13/15 11:23	1
Dibromochloromethane	ND		1.0		ug/L			08/13/15 11:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/13/15 11:23	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/13/15 11:23	1
Dibromomethane	ND		1.0		ug/L			08/13/15 11:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/13/15 11:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/13/15 11:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/13/15 11:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/13/15 11:23	1
1,1-Dichloroethane	ND		1.0		ug/L			08/13/15 11:23	1
1,2-Dichloroethane	ND		0.50		ug/L			08/13/15 11:23	1
1,1-Dichloroethene	ND		1.0		ug/L			08/13/15 11:23	1
1,2-Dichloropropane	ND		1.0		ug/L			08/13/15 11:23	1
1,3-Dichloropropane	ND		1.0		ug/L			08/13/15 11:23	1
2,2-Dichloropropane	ND		1.0		ug/L			08/13/15 11:23	1
1,1-Dichloropropene	ND		1.0		ug/L			08/13/15 11:23	1
Ethylbenzene	ND		1.0		ug/L			08/13/15 11:23	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			08/13/15 11:23	1
Hexachlorobutadiene	ND		2.0		ug/L			08/13/15 11:23	1
2-Hexanone	ND		10		ug/L			08/13/15 11:23	1
Isopropylbenzene	ND		1.0		ug/L			08/13/15 11:23	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			08/13/15 11:23	1
Methylene Chloride	ND		5.0		ug/L			08/13/15 11:23	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/13/15 11:23	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/13/15 11:23	1
m,p-Xylene	ND		1.0		ug/L			08/13/15 11:23	1
Naphthalene	ND		5.0		ug/L			08/13/15 11:23	1
n-Butylbenzene	ND		2.0		ug/L			08/13/15 11:23	1
N-Propylbenzene	ND		2.0		ug/L			08/13/15 11:23	1
o-Xylene	ND		1.0		ug/L			08/13/15 11:23	1

Client Sample ID: EPA-MW-9A-535-GW-30072015

Lab Sample ID: 440-116578-1

Date Collected: 07/30/15 08:30
Matrix: Water
Date Received: 07/30/15 18:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.0	ug/L			08/13/15 11:23	1
sec-Butylbenzene	ND		2.0	ug/L			08/13/15 11:23	1
Styrene	ND		1.0	ug/L			08/13/15 11:23	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			08/13/15 11:23	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/13/15 11:23	1
tert-Butylbenzene	ND		2.0	ug/L			08/13/15 11:23	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			08/13/15 11:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/13/15 11:23	1
Tetrachloroethene	ND		1.0	ug/L			08/13/15 11:23	1
Toluene	**3.1**		1.0	ug/L			08/13/15 11:23	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			08/13/15 11:23	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/13/15 11:23	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/13/15 11:23	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			08/13/15 11:23	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/13/15 11:23	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/13/15 11:23	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/13/15 11:23	1
Trichloroethene	**3.8**		1.0	ug/L			08/13/15 11:23	1
Trichlorofluoromethane	ND		1.0	ug/L			08/13/15 11:23	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/13/15 11:23	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/13/15 11:23	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/13/15 11:23	1
Vinyl chloride	ND		0.50	ug/L			08/13/15 11:23	1
Xylenes, Total	ND		2.0	ug/L			08/13/15 11:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*08/13/15 11:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*08/13/15 11:23*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*08/13/15 11:23*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*08/13/15 11:23*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**60**		3.0	ug/L			08/04/15 09:31	1

Client Sample ID: CAM-MW-1A-535-GW-30072015

Lab Sample ID: 440-116578-2

Date Collected: 07/30/15 08:30
Matrix: Water
Date Received: 07/30/15 18:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			08/13/15 12:48	1
Benzene	ND		0.50	ug/L			08/13/15 12:48	1
Bromobenzene	ND		1.0	ug/L			08/13/15 12:48	1
Bromochloromethane	ND		1.0	ug/L			08/13/15 12:48	1
Bromodichloromethane	ND		1.0	ug/L			08/13/15 12:48	1
Bromoform	ND		1.0	ug/L			08/13/15 12:48	1
Bromomethane	ND		2.0	ug/L			08/13/15 12:48	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Client Sample ID: CAM-MW-1A-535-GW-30072015

Lab Sample ID: 440-116578-2
Date Collected: 07/30/15 08:30
Matrix: Water
Date Received: 07/30/15 18:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	ND		1.0		ug/L			08/13/15 12:48	1
2-Butanone (MEK)	ND		10		ug/L			08/13/15 12:48	1
Carbon disulfide	ND		2.0		ug/L			08/13/15 12:48	1
Carbon tetrachloride	ND		1.0		ug/L			08/13/15 12:48	1
Chlorobenzene	ND		1.0		ug/L			08/13/15 12:48	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			08/13/15 12:48	1
Chloroethane	ND		1.0		ug/L			08/13/15 12:48	1
Chloroform	ND		1.0		ug/L			08/13/15 12:48	1
Chloromethane	ND		1.0		ug/L			08/13/15 12:48	1
2-Chlorotoluene	ND		2.0		ug/L			08/13/15 12:48	1
4-Chlorotoluene	ND		2.0		ug/L			08/13/15 12:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/13/15 12:48	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/13/15 12:48	1
Dibromochloromethane	ND		1.0		ug/L			08/13/15 12:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/13/15 12:48	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/13/15 12:48	1
Dibromomethane	ND		1.0		ug/L			08/13/15 12:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/13/15 12:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/13/15 12:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/13/15 12:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/13/15 12:48	1
1,1-Dichloroethane	ND		1.0		ug/L			08/13/15 12:48	1
1,2-Dichloroethane	ND		0.50		ug/L			08/13/15 12:48	1
1,1-Dichloroethene	ND		1.0		ug/L			08/13/15 12:48	1
1,2-Dichloropropane	ND		1.0		ug/L			08/13/15 12:48	1
1,3-Dichloropropane	ND		1.0		ug/L			08/13/15 12:48	1
2,2-Dichloropropane	ND		1.0		ug/L			08/13/15 12:48	1
1,1-Dichloropropene	ND		1.0		ug/L			08/13/15 12:48	1
Ethylbenzene	ND		1.0		ug/L			08/13/15 12:48	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			08/13/15 12:48	1
Hexachlorobutadiene	ND		2.0		ug/L			08/13/15 12:48	1
2-Hexanone	ND		10		ug/L			08/13/15 12:48	1
Isopropylbenzene	ND		1.0		ug/L			08/13/15 12:48	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			08/13/15 12:48	1
Methylene Chloride	ND		5.0		ug/L			08/13/15 12:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/13/15 12:48	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/13/15 12:48	1
m,p-Xylene	ND		1.0		ug/L			08/13/15 12:48	1
Naphthalene	ND		5.0		ug/L			08/13/15 12:48	1
n-Butylbenzene	ND		2.0		ug/L			08/13/15 12:48	1
N-Propylbenzene	ND		2.0		ug/L			08/13/15 12:48	1
o-Xylene	ND		1.0		ug/L			08/13/15 12:48	1
p-Isopropyltoluene	ND		2.0		ug/L			08/13/15 12:48	1
sec-Butylbenzene	ND		2.0		ug/L			08/13/15 12:48	1
Styrene	ND		1.0		ug/L			08/13/15 12:48	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			08/13/15 12:48	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/13/15 12:48	1
tert-Butylbenzene	ND		2.0		ug/L			08/13/15 12:48	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/13/15 12:48	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Client Sample ID: CAM-MW-1A-535-GW-30072015

Lab Sample ID: 440-116578-2
Date Collected: 07/30/15 08:30
Matrix: Water
Date Received: 07/30/15 18:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/13/15 12:48	1
Tetrachloroethene	ND		1.0	ug/L			08/13/15 12:48	1
Toluene	**3.1**		1.0	ug/L			08/13/15 12:48	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			08/13/15 12:48	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/13/15 12:48	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/13/15 12:48	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			08/13/15 12:48	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/13/15 12:48	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/13/15 12:48	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/13/15 12:48	1
Trichloroethene	**3.6**		1.0	ug/L			08/13/15 12:48	1
Trichlorofluoromethane	ND		1.0	ug/L			08/13/15 12:48	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/13/15 12:48	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/13/15 12:48	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/13/15 12:48	1
Vinyl chloride	ND		0.50	ug/L			08/13/15 12:48	1
Xylenes, Total	ND		2.0	ug/L			08/13/15 12:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*08/13/15 12:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*08/13/15 12:48*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*08/13/15 12:48*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*08/13/15 12:48*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**61**		3.0	ug/L			08/04/15 10:23	1

Client Sample ID: 30072015EB-1

Lab Sample ID: 440-116578-3
Date Collected: 07/30/15 07:20
Matrix: Water
Date Received: 07/30/15 18:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			08/04/15 02:10	1
Benzene	ND		0.50	ug/L			08/04/15 02:10	1
Bromobenzene	ND		1.0	ug/L			08/04/15 02:10	1
Bromochloromethane	ND		1.0	ug/L			08/04/15 02:10	1
Bromodichloromethane	ND		1.0	ug/L			08/04/15 02:10	1
Bromoform	ND		1.0	ug/L			08/04/15 02:10	1
Bromomethane	ND		2.0	ug/L			08/04/15 02:10	1
1,3-Butadiene	ND		1.0	ug/L			08/04/15 02:10	1
2-Butanone (MEK)	ND		10	ug/L			08/04/15 02:10	1
Carbon disulfide	ND		2.0	ug/L			08/04/15 02:10	1
Carbon tetrachloride	ND		1.0	ug/L			08/04/15 02:10	1
Chlorobenzene	ND		1.0	ug/L			08/04/15 02:10	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			08/04/15 02:10	1
Chloroethane	ND		1.0	ug/L			08/04/15 02:10	1

Client Sample ID: 30072015EB-1

Lab Sample ID: 440-116578-3

Date Collected: 07/30/15 07:20

Matrix: Water

Date Received: 07/30/15 18:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0		ug/L			08/04/15 02:10	1
Chloromethane	ND		1.0		ug/L			08/04/15 02:10	1
2-Chlorotoluene	ND		2.0		ug/L			08/04/15 02:10	1
4-Chlorotoluene	ND		2.0		ug/L			08/04/15 02:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/04/15 02:10	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/04/15 02:10	1
Dibromochloromethane	ND		1.0		ug/L			08/04/15 02:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/04/15 02:10	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/04/15 02:10	1
Dibromomethane	ND		1.0		ug/L			08/04/15 02:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/04/15 02:10	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/04/15 02:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/04/15 02:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/04/15 02:10	1
1,1-Dichloroethane	ND		1.0		ug/L			08/04/15 02:10	1
1,2-Dichloroethane	ND		0.50		ug/L			08/04/15 02:10	1
1,1-Dichloroethene	ND		1.0		ug/L			08/04/15 02:10	1
1,2-Dichloropropane	ND		1.0		ug/L			08/04/15 02:10	1
1,3-Dichloropropane	ND		1.0		ug/L			08/04/15 02:10	1
2,2-Dichloropropane	ND		1.0		ug/L			08/04/15 02:10	1
1,1-Dichloropropene	ND		1.0		ug/L			08/04/15 02:10	1
Ethylbenzene	ND		1.0		ug/L			08/04/15 02:10	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			08/04/15 02:10	1
Hexachlorobutadiene	ND		2.0		ug/L			08/04/15 02:10	1
2-Hexanone	ND		10		ug/L			08/04/15 02:10	1
Isopropylbenzene	ND		1.0		ug/L			08/04/15 02:10	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			08/04/15 02:10	1
Methylene Chloride	ND		5.0		ug/L			08/04/15 02:10	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/04/15 02:10	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/04/15 02:10	1
m,p-Xylene	ND		1.0		ug/L			08/04/15 02:10	1
Naphthalene	ND		5.0		ug/L			08/04/15 02:10	1
n-Butylbenzene	ND		2.0		ug/L			08/04/15 02:10	1
N-Propylbenzene	ND		2.0		ug/L			08/04/15 02:10	1
o-Xylene	ND		1.0		ug/L			08/04/15 02:10	1
p-Isopropyltoluene	ND		2.0		ug/L			08/04/15 02:10	1
sec-Butylbenzene	ND		2.0		ug/L			08/04/15 02:10	1
Styrene	ND		1.0		ug/L			08/04/15 02:10	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			08/04/15 02:10	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/04/15 02:10	1
tert-Butylbenzene	ND		2.0		ug/L			08/04/15 02:10	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/04/15 02:10	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/04/15 02:10	1
Tetrachloroethene	ND		1.0		ug/L			08/04/15 02:10	1
Toluene	ND		1.0		ug/L			08/04/15 02:10	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			08/04/15 02:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/04/15 02:10	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/04/15 02:10	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			08/04/15 02:10	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Client Sample ID: 30072015EB-1

Lab Sample ID: 440-116578-3
Date Collected: 07/30/15 07:20
Matrix: Water
Date Received: 07/30/15 18:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/04/15 02:10	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/04/15 02:10	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/04/15 02:10	1
Trichloroethene	ND		1.0	ug/L			08/04/15 02:10	1
Trichlorofluoromethane	ND		1.0	ug/L			08/04/15 02:10	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/04/15 02:10	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/04/15 02:10	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/04/15 02:10	1
Vinyl chloride	ND		0.50	ug/L			08/04/15 02:10	1
Xylenes, Total	ND		2.0	ug/L			08/04/15 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/04/15 02:10*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*08/04/15 02:10*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*08/04/15 02:10*	*1*

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0	ug/L			08/07/15 11:51	1

Client Sample ID: 30072015TB-1

Lab Sample ID: 440-116578-4
Date Collected: 07/30/15 07:00
Matrix: Water
Date Received: 07/30/15 18:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			08/04/15 02:40	1
Benzene	ND		0.50	ug/L			08/04/15 02:40	1
Bromobenzene	ND		1.0	ug/L			08/04/15 02:40	1
Bromochloromethane	ND		1.0	ug/L			08/04/15 02:40	1
Bromodichloromethane	ND		1.0	ug/L			08/04/15 02:40	1
Bromoform	ND		1.0	ug/L			08/04/15 02:40	1
Bromomethane	ND		2.0	ug/L			08/04/15 02:40	1
1,3-Butadiene	ND		1.0	ug/L			08/04/15 02:40	1
2-Butanone (MEK)	ND		10	ug/L			08/04/15 02:40	1
Carbon disulfide	ND		2.0	ug/L			08/04/15 02:40	1
Carbon tetrachloride	ND		1.0	ug/L			08/04/15 02:40	1
Chlorobenzene	ND		1.0	ug/L			08/04/15 02:40	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			08/04/15 02:40	1
Chloroethane	ND		1.0	ug/L			08/04/15 02:40	1
Chloroform	ND		1.0	ug/L			08/04/15 02:40	1
Chloromethane	ND		1.0	ug/L			08/04/15 02:40	1
2-Chlorotoluene	ND		2.0	ug/L			08/04/15 02:40	1
4-Chlorotoluene	ND		2.0	ug/L			08/04/15 02:40	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			08/04/15 02:40	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			08/04/15 02:40	1
Dibromochloromethane	ND		1.0	ug/L			08/04/15 02:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			08/04/15 02:40	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			08/04/15 02:40	1
Dibromomethane	ND		1.0	ug/L			08/04/15 02:40	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Client Sample ID: 30072015TB-1

Date Collected: 07/30/15 07:00
Date Received: 07/30/15 18:45

Lab Sample ID: 440-116578-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0		ug/L			08/04/15 02:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/04/15 02:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/04/15 02:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/04/15 02:40	1
1,1-Dichloroethane	ND		1.0		ug/L			08/04/15 02:40	1
1,2-Dichloroethane	ND		0.50		ug/L			08/04/15 02:40	1
1,1-Dichloroethene	ND		1.0		ug/L			08/04/15 02:40	1
1,2-Dichloropropane	ND		1.0		ug/L			08/04/15 02:40	1
1,3-Dichloropropane	ND		1.0		ug/L			08/04/15 02:40	1
2,2-Dichloropropane	ND		1.0		ug/L			08/04/15 02:40	1
1,1-Dichloropropene	ND		1.0		ug/L			08/04/15 02:40	1
Ethylbenzene	ND		1.0		ug/L			08/04/15 02:40	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			08/04/15 02:40	1
Hexachlorobutadiene	ND		2.0		ug/L			08/04/15 02:40	1
2-Hexanone	ND		10		ug/L			08/04/15 02:40	1
Isopropylbenzene	ND		1.0		ug/L			08/04/15 02:40	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			08/04/15 02:40	1
Methylene Chloride	ND		5.0		ug/L			08/04/15 02:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/04/15 02:40	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/04/15 02:40	1
m,p-Xylene	ND		1.0		ug/L			08/04/15 02:40	1
Naphthalene	ND		5.0		ug/L			08/04/15 02:40	1
n-Butylbenzene	ND		2.0		ug/L			08/04/15 02:40	1
N-Propylbenzene	ND		2.0		ug/L			08/04/15 02:40	1
o-Xylene	ND		1.0		ug/L			08/04/15 02:40	1
p-Isopropyltoluene	ND		2.0		ug/L			08/04/15 02:40	1
sec-Butylbenzene	ND		2.0		ug/L			08/04/15 02:40	1
Styrene	ND		1.0		ug/L			08/04/15 02:40	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			08/04/15 02:40	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/04/15 02:40	1
tert-Butylbenzene	ND		2.0		ug/L			08/04/15 02:40	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/04/15 02:40	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/04/15 02:40	1
Tetrachloroethene	ND		1.0		ug/L			08/04/15 02:40	1
Toluene	ND		1.0		ug/L			08/04/15 02:40	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			08/04/15 02:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/04/15 02:40	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/04/15 02:40	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			08/04/15 02:40	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			08/04/15 02:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			08/04/15 02:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			08/04/15 02:40	1
Trichloroethene	ND		1.0		ug/L			08/04/15 02:40	1
Trichlorofluoromethane	ND		1.0		ug/L			08/04/15 02:40	1
1,2,3-Trichloropropane	ND		2.0		ug/L			08/04/15 02:40	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			08/04/15 02:40	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			08/04/15 02:40	1
Vinyl chloride	ND		0.50		ug/L			08/04/15 02:40	1
Xylenes, Total	ND		2.0		ug/L			08/04/15 02:40	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Client Sample ID: 30072015TB-1

Date Collected: 07/30/15 07:00
Date Received: 07/30/15 18:45

Lab Sample ID: 440-116578-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		08/04/15 02:40	1
Dibromofluoromethane (Surr)	117		76 - 132		08/04/15 02:40	1
Toluene-d8 (Surr)	109		80 - 128		08/04/15 02:40	1

Method Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
314.0 LL	Perchlorate (IC)	EPA	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Client Sample ID: EPA-MW-9A-535-GW-30072015 — Lab Sample ID: 440-116578-1

Date Collected: 07/30/15 08:30
Date Received: 07/30/15 18:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	272894	08/13/15 11:23	HR	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270843	08/04/15 09:31	CH	TAL IRV

Client Sample ID: CAM-MW-1A-535-GW-30072015 — Lab Sample ID: 440-116578-2

Date Collected: 07/30/15 08:30
Date Received: 07/30/15 18:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	272894	08/13/15 12:48	HR	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		270843	08/04/15 10:23	CH	TAL IRV

Client Sample ID: 30072015EB-1 — Lab Sample ID: 440-116578-3

Date Collected: 07/30/15 07:20
Date Received: 07/30/15 18:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270730	08/04/15 02:10	MM1	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		271705	08/07/15 11:51	CH	TAL IRV

Client Sample ID: 30072015TB-1 — Lab Sample ID: 440-116578-4

Date Collected: 07/30/15 07:00
Date Received: 07/30/15 18:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	270730	08/04/15 02:40	MM1	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-270730/4
Matrix: Water
Analysis Batch: 270730

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	ug/L			08/03/15 17:20	1
Benzene	ND		0.50	ug/L			08/03/15 17:20	1
Bromobenzene	ND		1.0	ug/L			08/03/15 17:20	1
Bromochloromethane	ND		1.0	ug/L			08/03/15 17:20	1
Bromodichloromethane	ND		1.0	ug/L			08/03/15 17:20	1
Bromoform	ND		1.0	ug/L			08/03/15 17:20	1
Bromomethane	ND		2.0	ug/L			08/03/15 17:20	1
1,3-Butadiene	ND		1.0	ug/L			08/03/15 17:20	1
2-Butanone (MEK)	ND		10	ug/L			08/03/15 17:20	1
Carbon disulfide	ND		2.0	ug/L			08/03/15 17:20	1
Carbon tetrachloride	ND		1.0	ug/L			08/03/15 17:20	1
Chlorobenzene	ND		1.0	ug/L			08/03/15 17:20	1
2-Chloro-1,3-butadiene	ND		2.0	ug/L			08/03/15 17:20	1
Chloroethane	ND		1.0	ug/L			08/03/15 17:20	1
Chloroform	ND		1.0	ug/L			08/03/15 17:20	1
Chloromethane	ND		1.0	ug/L			08/03/15 17:20	1
2-Chlorotoluene	ND		2.0	ug/L			08/03/15 17:20	1
4-Chlorotoluene	ND		2.0	ug/L			08/03/15 17:20	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			08/03/15 17:20	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			08/03/15 17:20	1
Dibromochloromethane	ND		1.0	ug/L			08/03/15 17:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			08/03/15 17:20	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			08/03/15 17:20	1
Dibromomethane	ND		1.0	ug/L			08/03/15 17:20	1
1,2-Dichlorobenzene	ND		1.0	ug/L			08/03/15 17:20	1
1,3-Dichlorobenzene	ND		1.0	ug/L			08/03/15 17:20	1
1,4-Dichlorobenzene	ND		1.0	ug/L			08/03/15 17:20	1
Dichlorodifluoromethane	ND		1.0	ug/L			08/03/15 17:20	1
1,1-Dichloroethane	ND		1.0	ug/L			08/03/15 17:20	1
1,2-Dichloroethane	ND		0.50	ug/L			08/03/15 17:20	1
1,1-Dichloroethene	ND		1.0	ug/L			08/03/15 17:20	1
1,2-Dichloropropane	ND		1.0	ug/L			08/03/15 17:20	1
1,3-Dichloropropane	ND		1.0	ug/L			08/03/15 17:20	1
2,2-Dichloropropane	ND		1.0	ug/L			08/03/15 17:20	1
1,1-Dichloropropene	ND		1.0	ug/L			08/03/15 17:20	1
Ethylbenzene	ND		1.0	ug/L			08/03/15 17:20	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	ug/L			08/03/15 17:20	1
Hexachlorobutadiene	ND		2.0	ug/L			08/03/15 17:20	1
2-Hexanone	ND		10	ug/L			08/03/15 17:20	1
Isopropylbenzene	ND		1.0	ug/L			08/03/15 17:20	1
Isopropyl Ether (DIPE)	ND		2.0	ug/L			08/03/15 17:20	1
Methylene Chloride	ND		5.0	ug/L			08/03/15 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L			08/03/15 17:20	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			08/03/15 17:20	1
m,p-Xylene	ND		1.0	ug/L			08/03/15 17:20	1
Naphthalene	ND		5.0	ug/L			08/03/15 17:20	1
n-Butylbenzene	ND		2.0	ug/L			08/03/15 17:20	1
N-Propylbenzene	ND		2.0	ug/L			08/03/15 17:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-270730/4
Matrix: Water
Analysis Batch: 270730

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0	ug/L			08/03/15 17:20	1
p-Isopropyltoluene	ND		2.0	ug/L			08/03/15 17:20	1
sec-Butylbenzene	ND		2.0	ug/L			08/03/15 17:20	1
Styrene	ND		1.0	ug/L			08/03/15 17:20	1
Tert-amyl-methyl ether (TAME)	ND		2.0	ug/L			08/03/15 17:20	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/03/15 17:20	1
tert-Butylbenzene	ND		2.0	ug/L			08/03/15 17:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			08/03/15 17:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/03/15 17:20	1
Tetrachloroethene	ND		1.0	ug/L			08/03/15 17:20	1
Toluene	ND		1.0	ug/L			08/03/15 17:20	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			08/03/15 17:20	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/03/15 17:20	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/03/15 17:20	1
1,2,3-Trichlorobenzene	ND		2.0	ug/L			08/03/15 17:20	1
1,2,4-Trichlorobenzene	ND		2.0	ug/L			08/03/15 17:20	1
1,1,1-Trichloroethane	ND		1.0	ug/L			08/03/15 17:20	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/03/15 17:20	1
Trichloroethene	ND		1.0	ug/L			08/03/15 17:20	1
Trichlorofluoromethane	ND		1.0	ug/L			08/03/15 17:20	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/03/15 17:20	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/03/15 17:20	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/03/15 17:20	1
Vinyl chloride	ND		0.50	ug/L			08/03/15 17:20	1
Xylenes, Total	ND		2.0	ug/L			08/03/15 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/03/15 17:20*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*08/03/15 17:20*	*1*
Toluene-d8 (Surr)	*111*		*80 - 128*		*08/03/15 17:20*	*1*

Lab Sample ID: LCS 440-270730/5
Matrix: Water
Analysis Batch: 270730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	22.7		ug/L		91	10 - 150
Benzene	25.0	25.8		ug/L		103	68 - 130
Bromobenzene	25.0	26.9		ug/L		108	70 - 130
Bromochloromethane	25.0	26.7		ug/L		107	70 - 130
Bromodichloromethane	25.0	28.1		ug/L		112	70 - 132
Bromoform	25.0	30.1		ug/L		120	60 - 148
Bromomethane	25.0	19.0		ug/L		76	64 - 139
2-Butanone (MEK)	25.0	25.6		ug/L		102	44 - 150
Carbon disulfide	25.0	27.3		ug/L		109	52 - 136
Carbon tetrachloride	25.0	31.5		ug/L		126	60 - 150
Chlorobenzene	25.0	26.0		ug/L		104	70 - 130
Chloroethane	25.0	18.3		ug/L		73	64 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-270730/5
Matrix: Water
Analysis Batch: 270730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	25.0	27.9		ug/L		111	70 - 130
Chloromethane	25.0	18.7		ug/L		75	47 - 140
2-Chlorotoluene	25.0	26.8		ug/L		107	70 - 130
4-Chlorotoluene	25.0	26.9		ug/L		108	70 - 130
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	70 - 133
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	70 - 133
Dibromochloromethane	25.0	29.4		ug/L		117	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	22.1		ug/L		89	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.4		ug/L		109	70 - 130
Dibromomethane	25.0	26.5		ug/L		106	70 - 130
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,3-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,4-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130
Dichlorodifluoromethane	25.0	20.4		ug/L		82	29 - 150
1,1-Dichloroethane	25.0	26.8		ug/L		107	64 - 130
1,2-Dichloroethane	25.0	27.5		ug/L		110	57 - 138
1,1-Dichloroethene	25.0	27.2		ug/L		109	70 - 130
1,2-Dichloropropane	25.0	27.6		ug/L		111	67 - 130
1,3-Dichloropropane	25.0	25.9		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	29.4		ug/L		117	68 - 141
1,1-Dichloropropene	25.0	26.9		ug/L		108	70 - 130
Ethylbenzene	25.0	26.1		ug/L		104	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	26.5		ug/L		106	60 - 136
Hexachlorobutadiene	25.0	27.7		ug/L		111	10 - 150
2-Hexanone	25.0	28.4		ug/L		114	10 - 150
Isopropylbenzene	25.0	27.4		ug/L		110	70 - 136
Isopropyl Ether (DIPE)	25.0	26.3		ug/L		105	58 - 139
Methylene Chloride	25.0	25.1		ug/L		100	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	30.1		ug/L		120	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	25.5		ug/L		102	63 - 131
m,p-Xylene	25.0	28.3		ug/L		113	70 - 130
Naphthalene	25.0	22.7		ug/L		91	60 - 140
n-Butylbenzene	25.0	27.6		ug/L		110	65 - 150
N-Propylbenzene	25.0	27.4		ug/L		110	67 - 139
o-Xylene	25.0	27.4		ug/L		110	70 - 130
p-Isopropyltoluene	25.0	28.1		ug/L		112	70 - 132
sec-Butylbenzene	25.0	27.1		ug/L		108	70 - 138
Styrene	25.0	27.7		ug/L		111	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	24.6		ug/L		98	57 - 139
tert-Butyl alcohol (TBA)	250	290		ug/L		116	70 - 130
tert-Butylbenzene	25.0	27.4		ug/L		110	70 - 130
1,1,1,2-Tetrachloroethane	25.0	28.7		ug/L		115	60 - 141
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	63 - 130
Tetrachloroethene	25.0	28.9		ug/L		116	70 - 130
Toluene	25.0	26.0		ug/L		104	70 - 130
trans-1,2-Dichloroethene	25.0	27.8		ug/L		111	70 - 130
trans-1,3-Dichloropropene	25.0	27.6		ug/L		110	70 - 132
1,2,3-Trichlorobenzene	25.0	23.6		ug/L		95	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-270730/5
Matrix: Water
Analysis Batch: 270730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	60 - 140
1,1,1-Trichloroethane	25.0	29.1		ug/L		116	70 - 130
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
Trichloroethene	25.0	27.7		ug/L		111	70 - 130
Trichlorofluoromethane	25.0	22.5		ug/L		90	60 - 150
1,2,3-Trichloropropane	25.0	24.5		ug/L		98	63 - 130
1,2,4-Trimethylbenzene	25.0	27.1		ug/L		109	70 - 135
1,3,5-Trimethylbenzene	25.0	27.2		ug/L		109	70 - 136
Vinyl chloride	25.0	20.5		ug/L		82	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
Toluene-d8 (Surr)	*106*		*80 - 128*

Lab Sample ID: 440-116504-A-25 MS
Matrix: Water
Analysis Batch: 270730

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	23.9		ug/L		95	10 - 150
Benzene	ND		25.0	25.7		ug/L		103	66 - 130
Bromobenzene	ND		25.0	27.1		ug/L		108	70 - 130
Bromochloromethane	ND		25.0	26.7		ug/L		107	70 - 130
Bromodichloromethane	ND		25.0	29.4		ug/L		118	70 - 138
Bromoform	ND		25.0	30.5		ug/L		122	59 - 150
Bromomethane	ND		25.0	20.6		ug/L		82	62 - 131
2-Butanone (MEK)	ND		25.0	27.8		ug/L		111	48 - 140
Carbon disulfide	ND		25.0	27.4		ug/L		110	49 - 140
Carbon tetrachloride	ND		25.0	31.8		ug/L		127	60 - 150
Chlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130
Chloroethane	ND		25.0	19.2		ug/L		77	68 - 130
Chloroform	ND		25.0	28.0		ug/L		112	70 - 130
Chloromethane	ND		25.0	17.3		ug/L		69	39 - 144
2-Chlorotoluene	ND		25.0	26.7		ug/L		107	70 - 130
4-Chlorotoluene	ND		25.0	26.9		ug/L		108	70 - 130
cis-1,2-Dichloroethene	48		25.0	72.8		ug/L		100	70 - 130
cis-1,3-Dichloropropene	ND		25.0	28.7		ug/L		115	70 - 133
Dibromochloromethane	ND		25.0	29.7		ug/L		119	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	22.4		ug/L		89	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	27.4		ug/L		109	70 - 131
Dibromomethane	ND		25.0	26.3		ug/L		105	70 - 130
1,2-Dichlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130
1,4-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130
Dichlorodifluoromethane	ND		25.0	20.6		ug/L		82	25 - 142
1,1-Dichloroethane	ND		25.0	27.6		ug/L		108	65 - 130
1,2-Dichloroethane	ND		25.0	27.5		ug/L		110	56 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116504-A-25 MS
Matrix: Water
Analysis Batch: 270730

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.3		25.0	28.7		ug/L		109	70 - 130
1,2-Dichloropropane	ND		25.0	28.1		ug/L		112	69 - 130
1,3-Dichloropropane	ND		25.0	26.3		ug/L		105	70 - 130
2,2-Dichloropropane	ND		25.0	29.3		ug/L		117	69 - 138
1,1-Dichloropropene	ND		25.0	27.5		ug/L		110	64 - 130
Ethylbenzene	ND		25.0	26.2		ug/L		105	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.8		ug/L		107	70 - 130
Hexachlorobutadiene	ND		25.0	27.7		ug/L		111	10 - 150
2-Hexanone	ND		25.0	26.8		ug/L		107	10 - 150
Isopropylbenzene	ND		25.0	27.2		ug/L		109	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	26.4		ug/L		105	64 - 138
Methylene Chloride	ND		25.0	25.8		ug/L		103	52 - 130
4-Methyl-2-pentanone (MIBK)	ND		25.0	30.3		ug/L		121	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.3		ug/L		101	70 - 130
m,p-Xylene	ND		25.0	28.5		ug/L		114	70 - 133
Naphthalene	ND		25.0	23.0		ug/L		92	60 - 140
n-Butylbenzene	ND		25.0	27.2		ug/L		109	61 - 149
N-Propylbenzene	ND		25.0	27.4		ug/L		110	66 - 135
o-Xylene	ND		25.0	27.5		ug/L		110	70 - 133
p-Isopropyltoluene	ND		25.0	27.8		ug/L		111	70 - 130
sec-Butylbenzene	ND		25.0	26.9		ug/L		108	67 - 134
Styrene	ND		25.0	27.7		ug/L		111	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	24.6		ug/L		98	68 - 133
tert-Butyl alcohol (TBA)	ND		250	277		ug/L		111	70 - 130
tert-Butylbenzene	ND		25.0	27.5		ug/L		110	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	29.1		ug/L		116	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	25.0		ug/L		100	63 - 130
Tetrachloroethene	8.6		25.0	37.8		ug/L		117	70 - 137
Toluene	ND		25.0	26.3		ug/L		105	70 - 130
trans-1,2-Dichloroethene	ND		25.0	28.2		ug/L		113	70 - 130
trans-1,3-Dichloropropene	ND		25.0	27.8		ug/L		111	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	24.2		ug/L		97	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.9		ug/L		103	60 - 140
1,1,1-Trichloroethane	ND		25.0	30.1		ug/L		119	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.7		ug/L		103	70 - 130
Trichloroethene	190		25.0	211	4	ug/L		65	70 - 130
Trichlorofluoromethane	ND		25.0	24.5		ug/L		98	60 - 150
1,2,3-Trichloropropane	ND		25.0	24.5		ug/L		98	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	27.3		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.5		ug/L		110	70 - 130
Vinyl chloride	ND		25.0	20.4		ug/L		82	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116504-A-25 MSD
Matrix: Water
Analysis Batch: 270730

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	25.5		ug/L		102	10 - 150	7	35
Benzene	ND		25.0	25.8		ug/L		103	66 - 130	0	20
Bromobenzene	ND		25.0	27.2		ug/L		109	70 - 130	1	20
Bromochloromethane	ND		25.0	27.0		ug/L		108	70 - 130	1	25
Bromodichloromethane	ND		25.0	29.2		ug/L		117	70 - 138	0	20
Bromoform	ND		25.0	30.9		ug/L		123	59 - 150	1	25
Bromomethane	ND		25.0	20.2		ug/L		81	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	27.1		ug/L		108	48 - 140	3	40
Carbon disulfide	ND		25.0	27.1		ug/L		109	49 - 140	1	20
Carbon tetrachloride	ND		25.0	31.5		ug/L		126	60 - 150	1	25
Chlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130	0	20
Chloroethane	ND		25.0	19.0		ug/L		76	68 - 130	1	25
Chloroform	ND		25.0	27.4		ug/L		110	70 - 130	2	20
Chloromethane	ND		25.0	17.8		ug/L		71	39 - 144	3	25
2-Chlorotoluene	ND		25.0	26.7		ug/L		107	70 - 130	0	20
4-Chlorotoluene	ND		25.0	26.6		ug/L		106	70 - 130	1	20
cis-1,2-Dichloroethene	48		25.0	71.8		ug/L		96	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	28.4		ug/L		114	70 - 133	1	20
Dibromochloromethane	ND		25.0	29.9		ug/L		120	70 - 148	1	25
1,2-Dibromo-3-Chloropropane	ND		25.0	22.8		ug/L		91	48 - 140	2	30
1,2-Dibromoethane (EDB)	ND		25.0	27.7		ug/L		111	70 - 131	1	25
Dibromomethane	ND		25.0	26.2		ug/L		105	70 - 130	0	25
1,2-Dichlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	26.6		ug/L		107	70 - 130	0	20
1,4-Dichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130	0	20
Dichlorodifluoromethane	ND		25.0	20.7		ug/L		83	25 - 142	1	30
1,1-Dichloroethane	ND		25.0	27.2		ug/L		107	65 - 130	1	20
1,2-Dichloroethane	ND		25.0	27.6		ug/L		110	56 - 146	0	20
1,1-Dichloroethene	1.3		25.0	28.1		ug/L		107	70 - 130	2	20
1,2-Dichloropropane	ND		25.0	28.2		ug/L		113	69 - 130	1	20
1,3-Dichloropropane	ND		25.0	26.3		ug/L		105	70 - 130	0	25
2,2-Dichloropropane	ND		25.0	29.7		ug/L		119	69 - 138	2	25
1,1-Dichloropropene	ND		25.0	27.1		ug/L		108	64 - 130	1	20
Ethylbenzene	ND		25.0	26.4		ug/L		105	70 - 130	1	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	26.9		ug/L		108	70 - 130	1	25
Hexachlorobutadiene	ND		25.0	27.5		ug/L		110	10 - 150	1	20
2-Hexanone	ND		25.0	28.0		ug/L		112	10 - 150	5	35
Isopropylbenzene	ND		25.0	27.6		ug/L		110	70 - 132	1	20
Isopropyl Ether (DIPE)	ND		25.0	26.4		ug/L		106	64 - 138	0	25
Methylene Chloride	ND		25.0	21.5		ug/L		86	52 - 130	18	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	31.2		ug/L		125	52 - 150	3	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.9		ug/L		104	70 - 130	2	25
m,p-Xylene	ND		25.0	28.3		ug/L		113	70 - 133	0	25
Naphthalene	ND		25.0	23.1		ug/L		92	60 - 140	0	30
n-Butylbenzene	ND		25.0	27.6		ug/L		110	61 - 149	1	20
N-Propylbenzene	ND		25.0	27.3		ug/L		109	66 - 135	0	20
o-Xylene	ND		25.0	27.5		ug/L		110	70 - 133	0	20
p-Isopropyltoluene	ND		25.0	28.0		ug/L		112	70 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116504-A-25 MSD
Matrix: Water
Analysis Batch: 270730

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		25.0	26.7		ug/L		107	67 - 134	1	20
Styrene	ND		25.0	27.6		ug/L		110	29 - 150	1	35
Tert-amyl-methyl ether (TAME)	ND		25.0	24.9		ug/L		100	68 - 133	1	30
tert-Butyl alcohol (TBA)	ND		250	285		ug/L		114	70 - 130	3	25
tert-Butylbenzene	ND		25.0	27.4		ug/L		110	70 - 130	0	20
1,1,1,2-Tetrachloroethane	ND		25.0	28.9		ug/L		116	60 - 149	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	25.3		ug/L		101	63 - 130	1	30
Tetrachloroethene	8.6		25.0	37.3		ug/L		115	70 - 137	1	20
Toluene	ND		25.0	26.1		ug/L		104	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	27.8		ug/L		111	70 - 130	1	20
trans-1,3-Dichloropropene	ND		25.0	28.0		ug/L		112	70 - 138	1	25
1,2,3-Trichlorobenzene	ND		25.0	24.3		ug/L		97	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140	0	20
1,1,1-Trichloroethane	ND		25.0	29.4		ug/L		116	70 - 130	3	20
1,1,2-Trichloroethane	ND		25.0	25.9		ug/L		104	70 - 130	1	25
Trichloroethene	190		25.0	208	4	ug/L		56	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	22.9		ug/L		92	60 - 150	7	25
1,2,3-Trichloropropane	ND		25.0	25.0		ug/L		100	60 - 130	2	30
1,2,4-Trimethylbenzene	ND		25.0	27.2		ug/L		109	70 - 130	0	25
1,3,5-Trimethylbenzene	ND		25.0	27.4		ug/L		109	70 - 130	0	20
Vinyl chloride	ND		25.0	20.9		ug/L		84	50 - 137	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: MB 440-272894/5
Matrix: Water
Analysis Batch: 272894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/L			08/13/15 08:49	1
Benzene	ND		0.50		ug/L			08/13/15 08:49	1
Bromobenzene	ND		1.0		ug/L			08/13/15 08:49	1
Bromochloromethane	ND		1.0		ug/L			08/13/15 08:49	1
Bromodichloromethane	ND		1.0		ug/L			08/13/15 08:49	1
Bromoform	ND		1.0		ug/L			08/13/15 08:49	1
Bromomethane	ND		2.0		ug/L			08/13/15 08:49	1
1,3-Butadiene	ND		1.0		ug/L			08/13/15 08:49	1
2-Butanone (MEK)	ND		10		ug/L			08/13/15 08:49	1
Carbon disulfide	ND		2.0		ug/L			08/13/15 08:49	1
Carbon tetrachloride	ND		1.0		ug/L			08/13/15 08:49	1
Chlorobenzene	ND		1.0		ug/L			08/13/15 08:49	1
2-Chloro-1,3-butadiene	ND		2.0		ug/L			08/13/15 08:49	1
Chloroethane	ND		1.0		ug/L			08/13/15 08:49	1
Chloroform	ND		1.0		ug/L			08/13/15 08:49	1
Chloromethane	ND		1.0		ug/L			08/13/15 08:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-272894/5
Matrix: Water
Analysis Batch: 272894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		2.0		ug/L			08/13/15 08:49	1
4-Chlorotoluene	ND		2.0		ug/L			08/13/15 08:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			08/13/15 08:49	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			08/13/15 08:49	1
Dibromochloromethane	ND		1.0		ug/L			08/13/15 08:49	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/13/15 08:49	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			08/13/15 08:49	1
Dibromomethane	ND		1.0		ug/L			08/13/15 08:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			08/13/15 08:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			08/13/15 08:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			08/13/15 08:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			08/13/15 08:49	1
1,1-Dichloroethane	ND		1.0		ug/L			08/13/15 08:49	1
1,2-Dichloroethane	ND		0.50		ug/L			08/13/15 08:49	1
1,1-Dichloroethene	ND		1.0		ug/L			08/13/15 08:49	1
1,2-Dichloropropane	ND		1.0		ug/L			08/13/15 08:49	1
1,3-Dichloropropane	ND		1.0		ug/L			08/13/15 08:49	1
2,2-Dichloropropane	ND		1.0		ug/L			08/13/15 08:49	1
1,1-Dichloropropene	ND		1.0		ug/L			08/13/15 08:49	1
Ethylbenzene	ND		1.0		ug/L			08/13/15 08:49	1
Ethyl-t-butyl ether (ETBE)	ND		2.0		ug/L			08/13/15 08:49	1
Hexachlorobutadiene	ND		2.0		ug/L			08/13/15 08:49	1
2-Hexanone	ND		10		ug/L			08/13/15 08:49	1
Isopropylbenzene	ND		1.0		ug/L			08/13/15 08:49	1
Isopropyl Ether (DIPE)	ND		2.0		ug/L			08/13/15 08:49	1
Methylene Chloride	ND		5.0		ug/L			08/13/15 08:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			08/13/15 08:49	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			08/13/15 08:49	1
m,p-Xylene	ND		1.0		ug/L			08/13/15 08:49	1
Naphthalene	ND		5.0		ug/L			08/13/15 08:49	1
n-Butylbenzene	ND		2.0		ug/L			08/13/15 08:49	1
N-Propylbenzene	ND		2.0		ug/L			08/13/15 08:49	1
o-Xylene	ND		1.0		ug/L			08/13/15 08:49	1
p-Isopropyltoluene	ND		2.0		ug/L			08/13/15 08:49	1
sec-Butylbenzene	ND		2.0		ug/L			08/13/15 08:49	1
Styrene	ND		1.0		ug/L			08/13/15 08:49	1
Tert-amyl-methyl ether (TAME)	ND		2.0		ug/L			08/13/15 08:49	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/13/15 08:49	1
tert-Butylbenzene	ND		2.0		ug/L			08/13/15 08:49	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			08/13/15 08:49	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			08/13/15 08:49	1
Tetrachloroethene	ND		1.0		ug/L			08/13/15 08:49	1
Toluene	ND		1.0		ug/L			08/13/15 08:49	1
trans-1,4-Dichloro-2-butene	ND		5.0		ug/L			08/13/15 08:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			08/13/15 08:49	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			08/13/15 08:49	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			08/13/15 08:49	1
1,2,4-Trichlorobenzene	ND		2.0		ug/L			08/13/15 08:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-272894/5
Matrix: Water
Analysis Batch: 272894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	ug/L			08/13/15 08:49	1
1,1,2-Trichloroethane	ND		1.0	ug/L			08/13/15 08:49	1
Trichloroethene	ND		1.0	ug/L			08/13/15 08:49	1
Trichlorofluoromethane	ND		1.0	ug/L			08/13/15 08:49	1
1,2,3-Trichloropropane	ND		2.0	ug/L			08/13/15 08:49	1
1,2,4-Trimethylbenzene	ND		2.0	ug/L			08/13/15 08:49	1
1,3,5-Trimethylbenzene	ND		2.0	ug/L			08/13/15 08:49	1
Vinyl chloride	ND		0.50	ug/L			08/13/15 08:49	1
Xylenes, Total	ND		2.0	ug/L			08/13/15 08:49	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*08/13/15 08:49*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*08/13/15 08:49*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*08/13/15 08:49*	*1*
Toluene-d8 (Surr)	*115*		*80 - 128*		*08/13/15 08:49*	*1*

Lab Sample ID: LCS 440-272894/6
Matrix: Water
Analysis Batch: 272894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	25.0	31.5		ug/L		126	10 - 150
Benzene	25.0	27.3		ug/L		109	68 - 130
Bromobenzene	25.0	25.5		ug/L		102	70 - 130
Bromochloromethane	25.0	24.3		ug/L		97	70 - 130
Bromodichloromethane	25.0	27.7		ug/L		111	70 - 132
Bromoform	25.0	26.5		ug/L		106	60 - 148
Bromomethane	25.0	24.8		ug/L		99	64 - 139
2-Butanone (MEK)	25.0	27.6		ug/L		110	44 - 150
Carbon disulfide	25.0	26.6		ug/L		106	52 - 136
Carbon tetrachloride	25.0	29.6		ug/L		118	60 - 150
Chlorobenzene	25.0	26.1		ug/L		104	70 - 130
Chloroethane	25.0	25.0		ug/L		100	64 - 135
Chloroform	25.0	27.8		ug/L		111	70 - 130
Chloromethane	25.0	25.5		ug/L		102	47 - 140
2-Chlorotoluene	25.0	29.0		ug/L		116	70 - 130
4-Chlorotoluene	25.0	29.5		ug/L		118	70 - 130
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 133
cis-1,3-Dichloropropene	25.0	29.9		ug/L		120	70 - 133
Dibromochloromethane	25.0	26.2		ug/L		105	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	29.8		ug/L		119	52 - 140
1,2-Dibromoethane (EDB)	25.0	28.5		ug/L		114	70 - 130
Dibromomethane	25.0	28.2		ug/L		113	70 - 130
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-272894/6
Matrix: Water
Analysis Batch: 272894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
Dichlorodifluoromethane	25.0	23.5		ug/L		94	29 - 150
1,1-Dichloroethane	25.0	27.0		ug/L		108	64 - 130
1,2-Dichloroethane	25.0	30.6		ug/L		123	57 - 138
1,1-Dichloroethene	25.0	25.0		ug/L		100	70 - 130
1,2-Dichloropropane	25.0	29.1		ug/L		116	67 - 130
1,3-Dichloropropane	25.0	28.4		ug/L		113	70 - 130
2,2-Dichloropropane	25.0	29.9		ug/L		119	68 - 141
1,1-Dichloropropene	25.0	28.0		ug/L		112	70 - 130
Ethylbenzene	25.0	29.2		ug/L		117	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	28.9		ug/L		116	60 - 136
Hexachlorobutadiene	25.0	24.8		ug/L		99	10 - 150
2-Hexanone	25.0	30.3		ug/L		121	10 - 150
Isopropylbenzene	25.0	29.9		ug/L		120	70 - 136
Isopropyl Ether (DIPE)	25.0	32.6		ug/L		131	58 - 139
Methylene Chloride	25.0	27.6		ug/L		111	52 - 130
4-Methyl-2-pentanone (MIBK)	25.0	31.8		ug/L		127	59 - 149
Methyl-t-Butyl Ether (MTBE)	25.0	28.6		ug/L		115	63 - 131
m,p-Xylene	25.0	28.6		ug/L		115	70 - 130
Naphthalene	25.0	25.7		ug/L		103	60 - 140
n-Butylbenzene	25.0	31.0		ug/L		124	65 - 150
N-Propylbenzene	25.0	29.8		ug/L		119	67 - 139
o-Xylene	25.0	29.9		ug/L		120	70 - 130
p-Isopropyltoluene	25.0	28.5		ug/L		114	70 - 132
sec-Butylbenzene	25.0	29.0		ug/L		116	70 - 138
Styrene	25.0	29.0		ug/L		116	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	27.6		ug/L		110	57 - 139
tert-Butyl alcohol (TBA)	250	273		ug/L		109	70 - 130
tert-Butylbenzene	25.0	28.2		ug/L		113	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		109	60 - 141
1,1,2,2-Tetrachloroethane	25.0	28.0		ug/L		112	63 - 130
Tetrachloroethene	25.0	25.6		ug/L		103	70 - 130
Toluene	25.0	29.1		ug/L		116	70 - 130
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	30.6		ug/L		123	70 - 132
1,2,3-Trichlorobenzene	25.0	25.4		ug/L		102	60 - 140
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	60 - 140
1,1,1-Trichloroethane	25.0	28.3		ug/L		113	70 - 130
1,1,2-Trichloroethane	25.0	30.5		ug/L		122	70 - 130
Trichloroethene	25.0	25.9		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	28.2		ug/L		113	60 - 150
1,2,3-Trichloropropane	25.0	29.4		ug/L		117	63 - 130
1,2,4-Trimethylbenzene	25.0	30.0		ug/L		120	70 - 135
1,3,5-Trimethylbenzene	25.0	29.4		ug/L		118	70 - 136
Vinyl chloride	25.0	26.9		ug/L		108	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-272894/6
Matrix: Water
Analysis Batch: 272894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*76 - 132*
Toluene-d8 (Surr)	*111*		*80 - 128*

Lab Sample ID: 440-116578-1 MS
Matrix: Water
Analysis Batch: 272894

Client Sample ID: EPA-MW-9A-535-GW-30072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25.0	30.1		ug/L		120	10 - 150
Benzene	ND		25.0	27.1		ug/L		108	66 - 130
Bromobenzene	ND		25.0	26.2		ug/L		105	70 - 130
Bromochloromethane	ND		25.0	24.5		ug/L		98	70 - 130
Bromodichloromethane	ND		25.0	28.4		ug/L		113	70 - 138
Bromoform	ND		25.0	27.7		ug/L		111	59 - 150
Bromomethane	ND		25.0	25.7		ug/L		103	62 - 131
2-Butanone (MEK)	ND		25.0	28.5		ug/L		114	48 - 140
Carbon disulfide	ND		25.0	26.1		ug/L		104	49 - 140
Carbon tetrachloride	ND		25.0	28.3		ug/L		113	60 - 150
Chlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130
Chloroethane	ND		25.0	24.8		ug/L		99	68 - 130
Chloroform	ND		25.0	27.3		ug/L		109	70 - 130
Chloromethane	ND		25.0	26.1		ug/L		104	39 - 144
2-Chlorotoluene	ND		25.0	30.3		ug/L		121	70 - 130
4-Chlorotoluene	ND		25.0	30.5		ug/L		122	70 - 130
cis-1,2-Dichloroethene	ND		25.0	26.5		ug/L		106	70 - 130
cis-1,3-Dichloropropene	ND		25.0	30.6		ug/L		122	70 - 133
Dibromochloromethane	ND		25.0	27.1		ug/L		108	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	33.1		ug/L		132	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	30.7		ug/L		123	70 - 131
Dibromomethane	ND		25.0	28.1		ug/L		112	70 - 130
1,2-Dichlorobenzene	ND		25.0	27.6		ug/L		110	70 - 130
1,3-Dichlorobenzene	ND		25.0	27.6		ug/L		110	70 - 130
1,4-Dichlorobenzene	ND		25.0	26.9		ug/L		107	70 - 130
Dichlorodifluoromethane	ND		25.0	23.3		ug/L		93	25 - 142
1,1-Dichloroethane	ND		25.0	26.7		ug/L		107	65 - 130
1,2-Dichloroethane	ND		25.0	30.7		ug/L		123	56 - 146
1,1-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130
1,2-Dichloropropane	ND		25.0	29.1		ug/L		116	69 - 130
1,3-Dichloropropane	ND		25.0	30.4		ug/L		121	70 - 130
2,2-Dichloropropane	ND		25.0	29.3		ug/L		117	69 - 138
1,1-Dichloropropene	ND		25.0	26.6		ug/L		107	64 - 130
Ethylbenzene	ND		25.0	29.8		ug/L		119	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	29.5		ug/L		118	70 - 130
Hexachlorobutadiene	ND		25.0	24.6		ug/L		99	10 - 150
2-Hexanone	ND		25.0	33.2		ug/L		133	10 - 150
Isopropylbenzene	ND		25.0	29.9		ug/L		119	70 - 132
Isopropyl Ether (DIPE)	ND		25.0	32.3		ug/L		129	64 - 138
Methylene Chloride	ND		25.0	27.2		ug/L		109	52 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116578-1 MS
Matrix: Water
Analysis Batch: 272894

Client Sample ID: EPA-MW-9A-535-GW-30072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	ND		25.0	34.0		ug/L		136	52 - 150
Methyl-t-Butyl Ether (MTBE)	ND		25.0	29.2		ug/L		117	70 - 130
m,p-Xylene	ND		25.0	28.7		ug/L		115	70 - 133
Naphthalene	ND		25.0	26.9		ug/L		108	60 - 140
n-Butylbenzene	ND		25.0	30.8		ug/L		123	61 - 149
N-Propylbenzene	ND		25.0	30.2		ug/L		121	66 - 135
o-Xylene	ND		25.0	30.1		ug/L		120	70 - 133
p-Isopropyltoluene	ND		25.0	28.7		ug/L		115	70 - 130
sec-Butylbenzene	ND		25.0	29.5		ug/L		118	67 - 134
Styrene	ND		25.0	27.9		ug/L		112	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	27.7		ug/L		111	68 - 133
tert-Butyl alcohol (TBA)	ND		250	277		ug/L		111	70 - 130
tert-Butylbenzene	ND		25.0	28.2		ug/L		113	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	27.7		ug/L		111	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	29.4		ug/L		118	63 - 130
Tetrachloroethene	ND		25.0	25.8		ug/L		103	70 - 137
Toluene	3.1		25.0	33.3		ug/L		121	70 - 130
trans-1,2-Dichloroethene	ND		25.0	24.7		ug/L		99	70 - 130
trans-1,3-Dichloropropene	ND		25.0	31.1		ug/L		124	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	26.2		ug/L		105	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.3		ug/L		105	60 - 140
1,1,1-Trichloroethane	ND		25.0	27.0		ug/L		108	70 - 130
1,1,2-Trichloroethane	ND		25.0	30.9		ug/L		123	70 - 130
Trichloroethene	3.8		25.0	29.0		ug/L		101	70 - 130
Trichlorofluoromethane	ND		25.0	26.6		ug/L		107	60 - 150
1,2,3-Trichloropropane	ND		25.0	31.3		ug/L		125	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	29.4		ug/L		118	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	29.5		ug/L		118	70 - 130
Vinyl chloride	ND		25.0	26.2		ug/L		105	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
Toluene-d8 (Surr)	*113*		*80 - 128*

Lab Sample ID: 440-116578-1 MSD
Matrix: Water
Analysis Batch: 272894

Client Sample ID: EPA-MW-9A-535-GW-30072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25.0	27.1		ug/L		108	10 - 150	10	35
Benzene	ND		25.0	26.9		ug/L		108	66 - 130	1	20
Bromobenzene	ND		25.0	26.0		ug/L		104	70 - 130	1	20
Bromochloromethane	ND		25.0	23.8		ug/L		95	70 - 130	3	25
Bromodichloromethane	ND		25.0	26.9		ug/L		107	70 - 138	5	20
Bromoform	ND		25.0	25.5		ug/L		102	59 - 150	9	25
Bromomethane	ND		25.0	25.1		ug/L		100	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	22.3		ug/L		89	48 - 140	24	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116578-1 MSD
Matrix: Water
Analysis Batch: 272894

Client Sample ID: EPA-MW-9A-535-GW-30072015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND		25.0	26.1		ug/L		104	49 - 140	0	20
Carbon tetrachloride	ND		25.0	29.1		ug/L		116	60 - 150	3	25
Chlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130	3	20
Chloroethane	ND		25.0	25.4		ug/L		102	68 - 130	2	25
Chloroform	ND		25.0	26.9		ug/L		108	70 - 130	1	20
Chloromethane	ND		25.0	27.3		ug/L		109	39 - 144	4	25
2-Chlorotoluene	ND		25.0	30.3		ug/L		121	70 - 130	0	20
4-Chlorotoluene	ND		25.0	30.3		ug/L		121	70 - 130	1	20
cis-1,2-Dichloroethene	ND		25.0	25.7		ug/L		103	70 - 130	3	20
cis-1,3-Dichloropropene	ND		25.0	29.0		ug/L		116	70 - 133	5	20
Dibromochloromethane	ND		25.0	25.7		ug/L		103	70 - 148	6	25
1,2-Dibromo-3-Chloropropane	ND		25.0	28.9		ug/L		116	48 - 140	14	30
1,2-Dibromoethane (EDB)	ND		25.0	29.1		ug/L		116	70 - 131	5	25
Dibromomethane	ND		25.0	27.8		ug/L		111	70 - 130	1	25
1,2-Dichlorobenzene	ND		25.0	26.9		ug/L		107	70 - 130	3	20
1,3-Dichlorobenzene	ND		25.0	27.9		ug/L		112	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	27.1		ug/L		108	70 - 130	1	20
Dichlorodifluoromethane	ND		25.0	26.0		ug/L		104	25 - 142	11	30
1,1-Dichloroethane	ND		25.0	27.1		ug/L		108	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	28.0		ug/L		112	56 - 146	9	20
1,1-Dichloroethene	ND		25.0	25.8		ug/L		103	70 - 130	3	20
1,2-Dichloropropane	ND		25.0	28.9		ug/L		116	69 - 130	1	20
1,3-Dichloropropane	ND		25.0	27.2		ug/L		109	70 - 130	11	25
2,2-Dichloropropane	ND		25.0	29.3		ug/L		117	69 - 138	0	25
1,1-Dichloropropene	ND		25.0	27.7		ug/L		111	64 - 130	4	20
Ethylbenzene	ND		25.0	29.1		ug/L		116	70 - 130	2	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	28.5		ug/L		114	70 - 130	3	25
Hexachlorobutadiene	ND		25.0	25.3		ug/L		101	10 - 150	3	20
2-Hexanone	ND		25.0	28.5		ug/L		114	10 - 150	15	35
Isopropylbenzene	ND		25.0	29.8		ug/L		119	70 - 132	0	20
Isopropyl Ether (DIPE)	ND		25.0	31.6		ug/L		126	64 - 138	2	25
Methylene Chloride	ND		25.0	27.5		ug/L		110	52 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		25.0	30.4		ug/L		122	52 - 150	11	35
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.4		ug/L		110	70 - 130	6	25
m,p-Xylene	ND		25.0	28.7		ug/L		115	70 - 133	0	25
Naphthalene	ND		25.0	25.4		ug/L		102	60 - 140	6	30
n-Butylbenzene	ND		25.0	31.5		ug/L		126	61 - 149	2	20
N-Propylbenzene	ND		25.0	30.9		ug/L		124	66 - 135	2	20
o-Xylene	ND		25.0	29.2		ug/L		117	70 - 133	3	20
p-Isopropyltoluene	ND		25.0	28.8		ug/L		115	70 - 130	1	20
sec-Butylbenzene	ND		25.0	30.2		ug/L		121	67 - 134	2	20
Styrene	ND		25.0	26.9		ug/L		107	29 - 150	4	35
Tert-amyl-methyl ether (TAME)	ND		25.0	27.2		ug/L		109	68 - 133	2	30
tert-Butyl alcohol (TBA)	ND		250	279		ug/L		112	70 - 130	1	25
tert-Butylbenzene	ND		25.0	28.4		ug/L		114	70 - 130	1	20
1,1,1,2-Tetrachloroethane	ND		25.0	27.2		ug/L		109	60 - 149	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	28.0		ug/L		112	63 - 130	5	30
Tetrachloroethene	ND		25.0	25.8		ug/L		103	70 - 137	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-116578-1 MSD — **Client Sample ID: EPA-MW-9A-535-GW-30072015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 272894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	3.1		25.0	32.7		ug/L		118	70 - 130	2	20
trans-1,2-Dichloroethene	ND		25.0	25.6		ug/L		102	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	30.0		ug/L		120	70 - 138	3	25
1,2,3-Trichlorobenzene	ND		25.0	25.6		ug/L		102	60 - 140	2	20
1,2,4-Trichlorobenzene	ND		25.0	26.5		ug/L		106	60 - 140	0	20
1,1,1-Trichloroethane	ND		25.0	27.4		ug/L		110	70 - 130	2	20
1,1,2-Trichloroethane	ND		25.0	28.7		ug/L		115	70 - 130	7	25
Trichloroethene	3.8		25.0	28.7		ug/L		100	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	27.3		ug/L		109	60 - 150	2	25
1,2,3-Trichloropropane	ND		25.0	28.7		ug/L		115	60 - 130	9	30
1,2,4-Trimethylbenzene	ND		25.0	29.5		ug/L		118	70 - 130	0	25
1,3,5-Trimethylbenzene	ND		25.0	29.6		ug/L		119	70 - 130	1	20
Vinyl chloride	ND		25.0	28.1		ug/L		112	50 - 137	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*110*		*80 - 128*

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 440-270843/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270843

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			08/04/15 08:14	1

Lab Sample ID: LCS 440-270843/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270843

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	23.3		ug/L		93	85 - 115		

Lab Sample ID: MRL 440-270843/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 270843

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			4.00	3.67		ug/L		92	75 - 125		

Lab Sample ID: MB 440-271705/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 271705

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		3.0		ug/L			08/07/15 08:13	1

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: LCS 440-271705/2
Matrix: Water
Analysis Batch: 271705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			25.0	25.6		ug/L		103	85 - 115		

Lab Sample ID: MRL 440-271705/5
Matrix: Water
Analysis Batch: 271705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			4.00	3.94		ug/L		99	75 - 125		

Lab Sample ID: 720-66484-B-9 MS
Matrix: Water
Analysis Batch: 271705

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	6.1	F1	25.0	46.7	F1	ug/L		162	80 - 120		

Lab Sample ID: 720-66484-B-9 MSD
Matrix: Water
Analysis Batch: 271705

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	6.1	F1	25.0	46.5	F1	ug/L		161	80 - 120	1	20

QC Association Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

GC/MS VOA

Analysis Batch: 270730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116504-A-25 MS	Matrix Spike	Total/NA	Water	8260B	
440-116504-A-25 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-116578-3	30072015EB-1	Total/NA	Water	8260B	
440-116578-4	30072015TB-1	Total/NA	Water	8260B	
LCS 440-270730/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-270730/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 272894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116578-1	EPA-MW-9A-535-GW-30072015	Total/NA	Water	8260B	
440-116578-1 MS	EPA-MW-9A-535-GW-30072015	Total/NA	Water	8260B	
440-116578-1 MSD	EPA-MW-9A-535-GW-30072015	Total/NA	Water	8260B	
440-116578-2	CAM-MW-1A-535-GW-30072015	Total/NA	Water	8260B	
LCS 440-272894/6	Lab Control Sample	Total/NA	Water	8260B	
MB 440-272894/5	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 270843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116578-1	EPA-MW-9A-535-GW-30072015	Total/NA	Water	314.0 LL	
440-116578-2	CAM-MW-1A-535-GW-30072015	Total/NA	Water	314.0 LL	
LCS 440-270843/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-270843/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-270843/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Analysis Batch: 271705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-116578-3	30072015EB-1	Total/NA	Water	314.0 LL	
720-66484-B-9 MS	Matrix Spike	Total/NA	Water	314.0 LL	
720-66484-B-9 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0 LL	
LCS 440-271705/2	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-271705/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-271705/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: AECOM, Inc.
Project/Site: B.F. Goodrich, Rialto, CA 60342184-07.03

TestAmerica Job ID: 440-116578-3

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-16 *
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

* Certification renewal pending - certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

(A)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 30 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Ben Stevens
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	1. Tritium (906.0)	2. Gross Alpha and Beta (900.0)	3. Radium 226 (903.0)	4. Radium 228 (904.0)	5. Stontium 90 (905_Sr90)	6. Iodide (300_ORGFM_28D)	7. Methyl Mercury (1630)	8. Carbamates (8321A_Carbamate)	10. Explosives (8321A_Explosive)	11. OP Pesticides (8141A)	12. Dioxins/Furans (1613B)	13. 1,4-Dioxane (8270C_SIM)	14. Semivolatiles (8270C_LL)	15. Formaldehyde (8315)	16. NDMA (1625_Cl)	17. C13-C22/C23-C40 (8015B_Dro)	18. Glycols (8015C_DAI_GLY)	Sample Specific Notes:
EPA-MW-9A-535-GW-30072015	7/30/15	0830	G	W	11+1 mercury kit	N	N	X	X	X	X	X	X	X	X									X	Each Mercury kit has 2 VOAs
CAM-MW-1A-535-GW-30072015	7/30/15	0830	G	W	11+1 mercury kit	N	N	X	X	X	X	X	X	X	X									X	
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
Preservation Used:1=Ice;2= HCl;3=H2SO4;4=HNO3;5=NaOH;6=C2H3ClO2;7=Na2S2O3;8=MCAA										4				2											All samples: 1

440-116578 Chain of Custody

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

5.0/5.4 52/5.6 5.0/5.4 4.8/5.2 35/3.9 IR-75

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler ID:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/30/15 1600	[signature]	BTS	7/30/15 1600
Relinquished by: [signature]	Company: BTS	Date/Time: 7/30/15 1715	Received by: [signature]	Company: DCS	Date/Time: 7/30/15 1715
Relinquished by: [signature]	Company: DCS	Date/Time: 7/30/15 1845	Received in Laboratory by: [signature]	Company: TA-I	Date/Time: 7/30/15 1845

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

(B)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 30/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Ben Stevens
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☑ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	19. A+A+2CVE (8260B)	21. Glycol Ethers (8015B_DAI)	22. Endothall (548.1)	23. 531.1 CA Regulated List (531.1)	24. 515.4 Herbicides (515.4)	25. Cyanide (5400_CN_E)	26. Glyphosate (547)	27. 123-TCP (GS/MS SIM) (524.2_SIM)	28. CA Reg List - Volatile Org (524.2)	29. Hex Chromium (218.6_ORGFM)	30. HAA5 Haloacetic Acid List (552.2)	31a. Al,Mn,Sn,Th,Ce (200.8)	31b. B, Li (200.7)	31c. Mercury (245.1)	32. Paraquat and Diquat (549.2)	33. TOC (SM5310B)	34. Total Phosphorus (365.3)	Sample Specific Notes:
535 BS 7/30/15																									
EPA-MW-9A-535-GW-30072015	7/30/15	0830	G	W	29	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CAM-MW-1A-535-GW-30072015	7/30/15	0830	G	W	29	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
	/ /15		G	W		N	N																		
Preservation Used:1=Ice;2= HCl;3=H2SO4;4=NH4Cl;5=NaOH;6=C6H8O6;7=Na2S2O3;8=MCAA;9=Na2SO3										7	7,8	9	5	7	2,6			4	HNO3		3,7	2	3	All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | I'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/30/15 1600	Nicole	Blumenthal	7/30/15 1600
Relinquished by: Nicole	Company: BTS	Date/Time: 7/30/15 1715	Received by: [signature] George Gemba	Company: UTC DES	Date/Time: 7/30/15 1715
Relinquished by: George Gemba	Company: DES	Date/Time: 7/30/15 1845	Received in Laboratory by: [signature]	Company: TA-I	Date/Time: 7/30/15 1845

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 30 /2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Ben Stevens
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	35a. Chlorite (300.1B_14D)	35b. Bromate,Bromide,Chlorate (300.1B_28D)	36a. Apparent Color (2120B)	36b. Odor (SM2150_Odor_B)	36c. Turbidity (SM2130B)	37.Default+Oxys+CS2+TICS(8260B_LL)	38. Ethanol (8015B_DAI)	39. Perchlorate (314.0_LL)	40. PO4 (300_ORGFMS)	41. Alkalinity (2320B)	42.SulfateChloride(300_ORGFMS_28D)	43. Fluoride (4500_F_C)	44. pH (SM4500_H+)	45. Conductivity (2510B)	46. TDS (2540C_Calcd)	47. MBAS (5540C)	Sample Specific Notes:
EPA-MW-9A-535-GW-30072015	7/30/15	0830	G	W	10	N	N	X		X			X	X										
CAM-MW-1A-535-GW-30072015	7/30/15	0830	G	W	10	N	N	X		X			X	X										
30072015EB-1	7/30/15	0720	G	W	4	N	N						X(2)						X(1)					(1) Perchlorate only (2) VOCs only
30072015TB-1	7/30/15	0700	G	W	3	N	N						X(2)											(2) VOCs only.
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
	/ /15		G	W		N	N																	
Preservation Used:1=Ice;2= HCl;3=Ethylene Diamine									3				2	2										All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler ID:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/30/15 1600	Nicole	BTS	7/30/15 1600
Relinquished by: Nicole	Company: BTS	Date/Time: 7/30/15 1715	Received by: [signature] George Gewlw UTC	Company: DCS	Date/Time: 7/30/15 1715
Relinquished by: [signature] George Gewlw	Company: DCS	Date/Time: 7/30/15 1845	Received in Laboratory by: [signature]	Company: TA-I	Date/Time: 7/30/15 1845

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

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Irvine, CA 92614
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Chain of Custody Record

C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 30/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	2 of 2 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Ben Stevens
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	51. 525.2 SVOCs (525.2)	52. EDB/DBCP (504.1)	53. Pesticides (505)	54.Coliforms, Total/E. Coli, Quanti Tray (9223_QT_SW)	9. PBDE (Sub-EPA 1614)	20. Radon 222 (Sub-Radon)	48. Asbestos in GW (Sub)	49. EPA 508 (508 - Sub)	50.MOD OPP LowLev (Sub-EPA 525.2)	55. PPCP Pharma-Neg+Pos+ Horomones Group (Sub)	Sample Specific Notes:
EPA-MW-9A-535-GW-30072015	7/30/15	0830	G	W	11	N	N		X	X	X		X	X				
CAM-MW-1A-535-GW-30072015	7/30/15	0830	G	W	11	N	N		X	X	X		X	X				
	/ /15		G	W		N	N											
	/ /15		G	W		N	N											
	/ /15		G	W		N	N											
	/ /15		G	W		N	N											
	/ /15		G	W		N	N											
	/ /15		G	W		N	N											
	/ /15		G	W		N	N											
	/ /15		G	W		N	N											
	/ /15		G	W		N	N											
	/ /15		G	W		N	N											
	/ /15		G	W		N	N											
Preservation Used:1=Ice;2= HCl;3=Na2S2O3;4=Na2SO3;5=NaN3;6=C6H8O6								2,4	3	3	3				2,4		5,6	All samples: 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler ID:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/30/15 1600	Nicole	BTS	7/30/15 1600
Nicole	BTS	7/30/15 1715	[signature] George Gerwin	VTC DES	7/30/15 1715
[signature] George Gerwin	DES	7/30/15 1845	Received in Laboratory by: [signature]	TA-I	7/30/15 1845

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

9/17/2015

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Irvine, CA 92614
phone 949.261.1022 fax

Chain of Custody Record

D

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 30/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Ben Stevens
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.03 -3	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	9. PBDE (Sub-EPA 1614)	49. EPA 508 (Sub-508)	55. PFCP Pharma-Neg+ Pos + Fluorometers Group (Sub)	Sample Specific Notes:
EPA-MW-9A-535-GW-30072015	7/30/15	0830	G	W	6	N	N			X	X	X	
CAM-MW-1A-535-GW-30072015	7/30/15	0830	G	W	6	N	N			X	X	X	
	/ /15		G	W		N	N						
	/ /15		G	W		N	N						
	/ /15		G	W		N	N						
	/ /15		G	W		N	N						
	/ /15		G	W		N	N						
	/ /15		G	W		N	N						
	/ /15		G	W		N	N						
	/ /15		G	W		N	N						
	/ /15		G	W		N	N						
	/ /15		G	W		N	N						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								1,2	1				

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7.30.15 [illegible]	[signature]	BTS	7/30/15 1610
Relinquished by: [signature]	Company: BTS	Date/Time: 7/30/15 1715	Received by: [signature]	Company: UTC DCS	Date/Time: 7/30/15 1715
Relinquished by: George Genorlaw	Company: DCS	Date/Time: 7/30/15 1845	Received in Laboratory by: [signature]	Company: TA-I	Date/Time: 7/30/15 1845

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

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Irvine, CA 92614
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Chain of Custody Record

E

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Holly Holbrook	Site Contact: Holly Holbrook	Date: 7 / 30/2015	COC No:
AECOM	Tel/Fax: 714-689-7215	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
999 W. Town and Country Rd.	Analysis Turnaround Time			Sampler: Ben Stevens
Orange, CA 92866	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (714) 689-7215	TAT if different from Below: Standard			Walk-in Client:
PM email: holly.holbrook@aecom.com	☐ 2 weeks			Lab Sampling:
Project Name: B.F. Goodrich; Rialto, CA	☐ 1 week			
Site: Rialto, CA	☐ 2 days			Job / SDG No.:
P O # 60342184-07.02	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs (8260B_LL)	Perchlorate (314.0_LL)	51, 525.2 SVOCs (525.2)	50, Mod OPP Pesticides (Sub-EPA 525.2)	71, Cr3, Cr6, Fe2, Fe3, 40P (8015B-Dual)	135 7/30/15	Sample Specific Notes:
EPA-MW-9A-535-GW-30072015	7/30/15	0830	G	W	4	N	N			X	X	X		
CAM-MW-1A-535-GW-30072015	7/30/15	0830	G	W	4	N	N			X	X	X		
	/ /15		G	W		N	N							
	/ /15		G	W		N	N							
	/ /15		G	W		N	N							
	/ /15		G	W		N	N							
	/ /15		G	W		N	N							
	/ /15		G	W		N	N							
	/ /15		G	W		N	N							
	/ /15		G	W		N	N							
	/ /15		G	W		N	N							
	/ /15		G	W		N	N							
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								1,2	1					

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	BTS	7/30/15 1600	Nico	BTS	7/30/15 1600
Nico	Blaine Tech Serv	7/30/15 1715	[signature] George Gerodw	UTC DCS	7/30/15 1715
[signature] George Gerodw	DCS	7/30/15 1845	Received in Laboratory by: [signature]	TA-7	7/30/15 1845

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 440-116578-3

Login Number: 116578
List Number: 1
Creator: Kim, Guerry

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix D

Data Validation Report

AECOM

Data Validation Memorandum

999 W Town and Country Road
Orange, CA 92868

TO: Rebecca Mora, Project Manager **FILE:** 60342184-07.02

FROM: Lily Bayati, Senior Project Chemist **SITE:** RFF SAOU

DATE: September 28, 2015

SUBJECT: Summary of Data Validation for TestAmerica Reports: 440-115033-1, 440-115378-1, 440-115580-1, 440-115677-1, 440-115835-1, 440-116331-1, 440-116350-1, 440-116460-3, and 440-116578-3

Introduction

This report summarizes the findings of the limited data validation (completeness check) of 52 groundwater samples (including eight field duplicates), nine trip blanks, six equipment blanks, and three field blanks. These samples were collected July 13-30, 2015 as part of the Rockets, Fireworks, and Flares Site South Area Operable Unit (RFF SAOU; formerly the B.F. Goodrich Superfund Site). TestAmerica Laboratories, Inc. (TestAmerica) in Irvine, California performed all analyses. The samples are listed in Table 1 included at the end of this document. The data were reviewed in accordance with AECOM Standard Operating Procedures, USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods (EPA SW-846), and the principles presented in *USEPA National Functional Guidelines for Superfund Organic Methods Data Review* (EPA, 2008, 2014), and *USEPA National Functional Guidelines for Laboratory Data Review, Inorganics* (EPA, 2010, 2014).

Executive Summary

All samples were analyzed as requested and all holding times were met. Due to matrix interference, the result for perchlorate for one sample was qualified as estimated ("J"). In addition, due to headspace in the sample vial, the result for 2-chloro-1,3-butadiene for one sample was qualified as estimated ("UJ"). No other data were qualified. Overall, based on this limited validation covering the QC parameters listed below, the data as qualified are useable for their intended purpose.

Data Review Narratives

Fifty-two groundwater samples, six equipment blanks (EBs), and three field blanks (FBs) were analyzed for volatile organic compounds (VOCs; EPA method 8260B), and perchlorate (EPA method 314.0). In addition, nine trip blanks (TBs) were analyzed for VOCs (EPA method 8260B). The laboratory data were reviewed to evaluate compliance with these methods and the quality of the data reported. This data review process did not include result recalculation or transcription error checking from the raw data. The following summarizes the results of this review.

The areas of review are listed below. A check mark (✓) indicates an area of review in which all data were acceptable. A crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Data Completeness
- ⊗ Holding Times and Preservation
- ✓ Blanks

- ✓ System Monitoring Compounds (Surrogates)
- ✓ Laboratory Control Samples (LCSs)
- ⊗ Matrix Spike/Matrix Spike Duplicate Samples (MSs/MSDs)
- ✓ Field Duplicates
- ✓ Analyte Identification and Quantitation

1. Overall Assessment
   The data reported in this package, as qualified, are considered to be usable for meeting project objectives. All results are considered to be valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for the project is 100%. Additionally, because all samples in this data set were collected and analyzed under similar prescribed conditions, the data within this set are considered to be comparable.

2. Data Completeness
   All analyses were performed as requested on the chain-of-custody (COC) forms. The laboratory reported all requested analyses and the deliverable data reports were complete.

3. Holding Times and Preservation
   All analyses were performed within the method-specified holding times and all samples were collected and preserved appropriately. However, for EPA 8260B analysis, sample EPA-MP4E-GW-16072015 was analyzed with significant headspace in the sample vial. Consequently, the result for 2-chloro-1,3-butadiene for this sample was qualified as estimated ("UJ").

4. Blanks
   Method blanks were analyzed at the proper frequency for the number and types of samples analyzed. Target analytes were not detected in the associated method blanks. In addition, target analytes were either not detected in the FBs, EBs, and TBs or did not require data qualification.

5. System Monitoring Compounds (Surrogates)
   Appropriate numbers of surrogate compounds were spiked into each sample for EPA 8260B analyses. All surrogate compound recoveries were within laboratory's statistically determined acceptance ranges.

6. Laboratory Control Samples (LCSs)
   LCSs were prepared and analyzed at the proper frequency for each analysis. All LCS recoveries reported were within laboratory's statistically determined acceptance ranges.

7. Matrix Spikes/Matrix Spike Duplicate Samples (MSs/MSDs)
   Several project samples were utilized for MS/MSD analyses. All MS/MSD recoveries reported and relative percent differences (RPDs) between the results were either within laboratory's acceptance ranges or did not require data qualification with the following exception.

EPA Method	Sample	Analyte	Average Recovery	RPD	Qualified Samples	Qualifier
314.0	**PW-7F-GW-17072015**	Perchlorate	142%*	0	**PW-7F-GW-17072015**	**J**
Note: * Outlier MS/MSD Recovery Acceptance Range: 80-120%, RPD Limit: 20						

8. Field Duplicates
The following project samples were submitted to the laboratory as blind field duplicate pairs.

Primary Sample	Field Duplicate
EMW-01B-556-GW-13072015	13072015D-1
PW-6C-GW-15072015	15072015D-1
EPA-MP4E-GW-16072015	16072015D-3
EPA-MP4D-GW-16072015	16072015D-1
EPA-MP4C-GW-16072015	16072015D-2
PW-7C-GW-17072015	17072015D-1
PW-8D-GW-20072015	20072015D-1
EMW-04A-450-GW-27072015	27072015D-1

Acceptable field and analytical precision was demonstrated for all analytes for all field duplicate pairs.

9. Analyte Identification and Quantitation
All analytes reported and the detection limits obtained comply with project specifications.
All dilutions were appropriate.

Table I
TestAmerica Laboratories, Inc.

Client Sample	SDG	Laboratory Number	Date Sampled	Analyses Performed
13072015TB-1	440-115033	440-115033-01	7/13/2015	EPA 8260B
EMW-01A-470-GW-13072015	440-115033	440-115033-02	7/13/2015	EPA 314.0, 8260B
EMW-01B-556-GW-13072015	440-115033	440-115033-03	7/13/2015	EPA 314.0, 8260B
13072015D-1	440-115033	440-115033-04	7/13/2015	EPA 314.0, 8260B
13072015FB-1 (Field Blank)	440-115033	440-115033-05	7/13/2015	EPA 314.0, 8260B
15072015TB-1 (Trip Blank)	440-115378	440-115378-01	7/15/2015	EPA 314.0, 8260B
PW-6B-GW-15072015	440-115378	440-115378-02	7/15/2015	EPA 314.0, 8260B
PW-6C-GW-15072015	440-115378	440-115378-03	7/15/2015	EPA 314.0, 8260B
PW-6D-GW-15072015	440-115378	440-115378-04	7/15/2015	EPA 314.0, 8260B
PW-6E-GW-15072015	440-115378	440-115378-05	7/15/2015	EPA 314.0, 8260B
15072015D-1	440-115378	440-115378-06	7/15/2015	EPA 314.0, 8260B
15072015EB-1 (Equipment Blank)	440-115378	440-115378-07	7/15/2015	EPA 314.0, 8260B
16072015TB-1 (Trip Blank)	440-115580	440-115580-01	7/16/2015	EPA 8260B
16072015EB-1 (Equipment Blank)	440-115580	440-115580-02	7/16/2015	EPA 314.0, 8260B
PW-5E-GW-16072015	440-115580	440-115580-03	7/16/2015	EPA 314.0, 8260B
PW-5D-GW-16072015	440-115580	440-115580-04	7/16/2015	EPA 314.0, 8260B
PW-5C-GW-16072015	440-115580	440-115580-05	7/16/2015	EPA 314.0, 8260B
PW-5B-GW-16072015	440-115580	440-115580-06	7/16/2015	EPA 314.0, 8260B
PW-5A-GW-16072015	440-115580	440-115580-07	7/16/2015	EPA 314.0, 8260B
EPA-MP4E-GW-16072015	440-115580	440-115580-08	7/16/2015	EPA 314.0, 8260B
EPA-MP4D-GW-16072015	440-115580	440-115580-09	7/16/2015	EPA 314.0, 8260B
16072015D-3	440-115580	440-115580-10	7/16/2015	EPA 314.0, 8260B
16072015D-1	440-115580	440-115580-11	7/16/2015	EPA 314.0, 8260B
16072015D-2	440-115580	440-115580-12	7/16/2015	EPA 314.0, 8260B
EPA-MP4C-GW-16072015	440-115580	440-115580-13	7/16/2015	EPA 314.0, 8260B
EPA-MP4B-GW-16072015	440-115580	440-115580-14	7/16/2015	EPA 314.0, 8260B
EPA-MP4A-GW-16072015	440-115580	440-115580-15	7/16/2015	EPA 314.0, 8260B
17072015TB-1 (Trip Blank)	440-115677	440-115677-01	7/17/2015	EPA 8260B
17072015EB-1 (Equipment Blank)	440-115677	440-115677-02	7/17/2015	EPA 314.0, 8260B
PW-7G-GW-17072015	440-115677	440-115677-03	7/17/2015	EPA 314.0, 8260B
PW-7F-GW-17072015	440-115677	440-115677-04	7/17/2015	EPA 314.0, 8260B
PW-7E-GW-17072015	440-115677	440-115677-05	7/17/2015	EPA 314.0, 8260B
PW-7D-GW-17072015	440-115677	440-115677-06	7/17/2015	EPA 314.0, 8260B
PW-7C-GW-17072015	440-115677	440-115677-07	7/17/2015	EPA 314.0, 8260B
PW-7B-GW-17072015	440-115677	440-115677-08	7/17/2015	EPA 314.0, 8260B
PW-8E-GW-17072015	440-115677	440-115677-09	7/17/2015	EPA 314.0, 8260B
17072015D-1	440-115677	440-115677-10	7/17/2015	EPA 314.0, 8260B
20072015TB-1 (Trip Blank)	440-115835	440-115835-01	7/20/2015	EPA 8260B
20072015EB-1 (Equipment Blank)	440-115835	440-115835-02	7/20/2015	EPA 314.0, 8260B

Table I
TestAmerica Laboratories, Inc.

Client Sample	SDG	Laboratory Number	Date Sampled	Analyses Performed
PW-8D-GW-20072015	440-115835	440-115835-03	7/20/2015	EPA 314.0, 8260B
PW-8C-GW-20072015	440-115835	440-115835-04	7/20/2015	EPA 314.0, 8260B
PW-8B-GW-20072015	440-115835	440-115835-05	7/20/2015	EPA 314.0, 8260B
PW-8A-GW-20072015	440-115835	440-115835-06	7/20/2015	EPA 314.0, 8260B
20072015D-1	440-115835	440-115835-07	7/20/2015	EPA 314.0, 8260B
27072015TB-1 (Trip Blank)	440-116331	440-116331-01	7/27/2015	EPA 8260B
27072015FB-1 (Field Blank)	440-116331	440-116331-02	7/27/2015	EPA 314.0, 8260B
27072015D-1	440-116331	440-116331-03	7/27/2015	EPA 314.0, 8260B
EMW-04A-450-GW-27072015	440-116331	440-116331-04	7/27/2015	EPA 314.0, 8260B
EMW-04B-605-GW-27072015	440-116331	440-116331-05	7/27/2015	EPA 314.0, 8260B
EMW-04C-690-GW-27072015	440-116331	440-116331-06	7/27/2015	EPA 314.0, 8260B
28072015TB-1 (Trip Blank)	440-116350	440-116350-01	7/28/2015	EPA 8260B
1N5W-34D25-770GW-28072015	440-116350	440-116350-02	7/28/2015	EPA 314.0, 8260B
1N5W-34D3S-600GW-28072015	440-116350	440-116350-03	7/28/2015	EPA 314.0, 8260B
28072015FB-1 (Field Blank)	440-116350	440-116350-04	7/28/2015	EPA 314.0, 8260B
EMW-05A-450-GW-28072015	440-116350	440-116350-05	7/28/2015	EPA 314.0, 8260B
EMW-05B-612-GW-28072015	440-116350	440-116350-06	7/28/2015	EPA 314.0, 8260B
EMW-05C-720-GW-28072015	440-116350	440-116350-07	7/28/2015	EPA 314.0, 8260B
PW-3-490-GW-28072015	440-116350	440-116350-08	7/28/2015	EPA 314.0, 8260B
PW-2-475-GW-28072015	440-116350	440-116350-09	7/28/2015	EPA 314.0, 8260B
PW-4-490-GW-28072015	440-116350	440-116350-10	7/28/2015	EPA 314.0, 8260B
EMW-03A-418-GW-28072015	440-116350	440-116350-11	7/28/2015	EPA 314.0, 8260B
EMW-03B-560-GW-28072015	440-116350	440-116350-12	7/28/2015	EPA 314.0, 8260B
EMW-03C-640-GW-28072015	440-116350	440-116350-13	7/28/2015	EPA 314.0, 8260B
EPA-MW-9B-725-GW-29072015	440-116460-3	440-116460-3-01	7/29/2015	EPA 314.0, 8260B
29072015TB-1 (Trip Blank)	440-116460-3	440-116460-3-02	7/29/2015	EPA 8260B
29072015EB-1 (Equipment Blank)	440-116460-3	440-116460-3-03	7/29/2015	EPA 314.0, 8260B
EPA-MW-9A-535-GW-30072015	440-116578-3	440-116578-3-01	7/30/2015	EPA 314.0, 8260B
CAM-MW-1A-535-GW-30072015	440-116578-3	440-116578-3-02	7/30/2015	EPA 314.0, 8260B
30072015EB-1 (Equipment Blank)	440-116578-3	440-116578-3-03	7/30/2015	EPA 314.0, 8260B
30072015TB-1 (Trip Blank)	440-116578-3	440-116578-3-04	7/30/2015	EPA 8260B

Notes:
SDG: Sample Delivery Group
EPA 8260B: VOCs
EPA 314.0: Perchlorate

ATTACHMENT A
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by AECOM Data Review Team

DATA QUALIFIER DEFINITIONS FOR ORGANIC ANALYES

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the estimated concentration of the analyte in the sample.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its estimated concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is estimated and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

DATA QUALIFIER DEFINITIONS FOR INORGANIC ANALYSES

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the estimated concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

UJ The analyte was analyzed for, but was not detected. The reported sample quantitation limit is estimated and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control (QC) criteria. The analyte may or may not be present in the sample.