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ENVIRONMENT

Ms. Bruni Davila
United States Environmental Protection Agency, Region IX
75 Hawthorne Street, 9th Floor
SFD-7-1
San Francisco, California 94105

Subject:
USEPA Third Quarter 2014 Monitoring Report
Watkins-Johnson Superfund Site, 440 Kings Village Road, Scotts Valley, California

Date:
30 September 2014

Contact:
Jeremie Maehr

Phone:
415.432.6918

Email:
Jeremie.Maehr@arcadis-us.com

Our ref:
RC000463.0112.NA214

Dear Ms. Davila:

ARCADIS has prepared this *United States Environmental Protection Agency (USEPA) Third Quarter 2014 Monitoring Report* for the Watkins-Johnson Superfund Site, 440 Kings Village Road, Scotts Valley, California (Site). This report is submitted in accordance with the *Final Remedial Design Plan for Remedial Design/Remedial Action (*Watkins-Johnson Environmental, Inc. August 31, 1993*, Final Remedial Design Plan for Remedial Design/Remedial Action, Watkins-Johnson Company, Scotts Valley, California)* for the Site.

Introduction

This report presents the information obtained during the third quarter 2014 (June 1 through August 31, 2014) for the Site.

This quarterly report provides:

- A discussion of the groundwater monitoring program and the associated activities performed during the current quarter;
- A summary of groundwater monitoring activities;
- A summary of groundwater level measurements;
- A summary of groundwater quality results;
- A summary of the status of the groundwater extraction and treatment system (GWETS) and the soil vapor extraction system (SVES);
- A summary of data validation results; and
- Summary.

Groundwater Monitoring Program

ARCADIS assumed responsibility for operation of the remedial system at the Site in July 1999. At that time, the USEPA and Watkins Johnson Company (WJC) had agreed to specific activities to monitor trichloroethene (TCE), which had been observed in monitoring well WJ-41 at concentrations above its maximum contaminant level (MCL) of 5 micrograms per liter (µg/L). During the June 1999 sampling event, tetrachloroethene (PCE) began to be detected in well WJ-43.

After review of the historic and recent data from site-wide monitoring in December 2002, the groundwater-monitoring program was modified to only require quarterly sampling of Regional Zone wells WJ-41 and WJ-43. In 2010, USEPA requested that the routine groundwater monitoring program include wells WJ-11, WJ-37A, WJ-41, WJ-43, the Wescosa Well and additional wells installed upgradient and offsite (*Addendum to Sampling and Analysis Plan – Background Groundwater Assessment*, ARCADIS April 16, 2010). Four additional upgradient offsite wells (KV-1 through KV-4) were installed during the third and fourth quarters of 2010. Five new upgradient offsite wells were installed in the fourth quarter of 2013 as part of the *Final Remedy Optimization Work Plan* approved by the USEPA on February 11, 2013.

Well locations are shown on Figure 1. Groundwater samples are collected using passive diffusion bag (PDB) samplers (*User's Guide for Polyethylene-Based Passive Diffusion Bag Samplers to Obtain Volatile Organic Compound Concentrations in Wells,* USGS, Water-Resources Investigations Report, 01-4060, 2001) as approved by the USEPA (May 5, 2004).

Groundwater from the Wescosa Well is collected from a spigot.

Although it is not a site-related contaminant, the USEPA has requested that methyl tertiary butyl ether (MTBE) be analyzed in groundwater samples collected from site monitoring wells. Therefore, following the removal of PDB samplers, a grab groundwater sample is collected from each well using a bailer.

Third Quarter 2014 Activities

The following activities were conducted during the third quarter 2014:

- June 10 and 23, 2014: Collected samples from the GWETS influent, midpoint, and effluent.

- July 2, 2014 Collected samples from the GWETS influent, midpoint, and effluent.

- July 1 and 3, 2014: Performed groundwater monitoring and sampling, which included: collection of water level measurements at wells WJ-11, WJ-37A, WJ-41, WJ-43, and KV-1 through KV-9; and the collection of groundwater samples at wells WJ-11, WJ-37A, WJ-41, WJ-43, Wescosa Well, KV-1, KV-2 at 180, 190, and 200 feet below top of casing (BTOC), KV-3 at 172 and 182 feet BTOC, KV-4, KV-5, KV-6 at 125 and 133 feet BTOC, KV-7 at 115,125 and 136 feet BTOC, KV-8 at 174, 185, and 195 feet BTOC, KV-9 at 138 and 148 feet BTOC, and EX-1 at 125 and 145 feet BTOC. Collected samples from the GWETs influent, midpoint and effluent.

- July 21, 2014: Collected samples from the GWETs influent, midpoint and effluent.

- August 21, 2014: Collected samples from the GWETS influent, midpoint and effluent.

Groundwater-Level Measurements

As approved by the USEPA (January 27, 2003), site-wide depth-to-water measurements were no longer required as part of the revised monitoring program. Table 1 presents a summary of groundwater elevation data for selected Regional Zone and Perched Zone wells. Groundwater elevations for wells and groundwater contours at the Site and the upgradient offsite wells are presented on Figure 2.

During the third quarter 2014 Regional Zone wells WJ-11, WJ-37A, WJ-41, WJ-43, EX-1 and KV-1 through KV-9 were gauged. The Wescosa Well is sampled via a spigot, therefore gauging is not performed.

Groundwater Quality Conditions

Regional Zone wells WJ-11, WJ-37A, WJ-41, WJ-43, EX-1, and upgradient monitoring wells KV-1, KV-2, KV-3, KV-4, KV-5, KV-6, KV-7, KV-8, KV-9 and the Wescosa Well were sampled on July 1 and July 3, 2014.

The samples were submitted to Curtis & Tompkins, Ltd., Analytical Laboratories (C&T) under chain of custody for analysis of volatile organic compounds (VOCs) using USEPA Test Method 8260B. The analytical results are presented in Table 2. PCE and TCE concentrations detected during the current quarter in Regional Zone groundwater wells at the Site are shown on Figure 3.

Summary of Soil Vapor Extraction System Operation

The SVE system was shut down following USEPA approval in April 2001. ARCADIS submitted the final *VLEACH Modeling Report* (*ARCADIS, July 2, 2003, Final Modeling Report VLEACH Analysis of Current Conditions, Watkins-Johnson Superfund Site, Scotts Valley, California)* to the USEPA on July 2, 2003 for consideration for final shutdown of the SVE. EPA provided approval of the VLEACH report to ARCADIS in a letter dated May 8, 2008. No vapor samples were collected during the current quarter.

Summary of Groundwater Extraction and Treatment System Operation

The GWETS began operation in 1986. The Perched Zone infiltration gallery was shut down with USEPA approval in May 2000. Discharge is authorized under NPDES Order Number R3-2006-0067, Permit Number CAG993002.

In 2008, ARCADIS proposed the shutdown of extraction well RA-2 to evaluate groundwater conditions and quality at the Site under a no-pumping state (*Proposal for RA-2 Shutdown and Groundwater Concentration Rebound Evaluation, ARCADIS,* November 6, 2008). With approval from the USEPA (letter from USEPA to ARCADIS dated November 21, 2008), extraction well RA-2 was shut down on December 19, 2008 and the RA-2 shutdown rebound evaluation commenced. On July 2, 2009, ARCADIS submitted the *Summary of RA-2 Shutdown and Groundwater Concentration Rebound Evaluation* to the USEPA, with the recommendation that the treatment system be permanently shut down because remedial goals for the Site had been reached. The USEPA requested in an email dated August 17, 2009 that the GWETS be restarted. The GWETS was formally restarted on November 19, 2009

following system modifications due to the facility no longer requiring the water, and the replacement of a failed pump in RA-2. A carbon changeout was last performed for the system during the fourth quarter of 2011.

Results for routine GWETS sampling events are presented on Table 3. During the current quarter, 4,351,335 gallons of treated water were discharged to Bean Creek (Table 4).

Summary of Groundwater Quality Data Validation

Groundwater quality data were reviewed and assigned qualifiers in accordance with the *Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses* (USEPA, 1985). Sample results are considered valid and usable without qualification. Sample results for the quality control (QC) batch were accepted by the laboratory based on percent recoveries and completeness of the QC data. The quality assurance/quality control (QA/QC) data validation summary for groundwater is included in Appendix A.

Summary

During the third quarter 2014 system sampling, the maximum PCE concentration detected in the system influent was 7.7 µg/L. The maximum TCE concentration detected in the system influent was not detected above reporting limits. All influent concentrations were treated to below permit limits prior to discharge.

During the third quarter 2014, PCE was detected above the MCL (5 µg/L) in 8 of the 15 monitoring wells sampled (WJ-11, WJ-37A, WJ-43, EX-01, upgradient wells KV-2, KV-6, KV-7, and KV-9). The maximum PCE concentration was 68 µg/L at KV-6 at a PDB depth of 125 feet BTOC.

TCE was not detected above the MCL (5 µg/L) at wells sampled this quarter.

During the third quarter 2014 sampling event cis-1,2-DCE was detected at wells KV-3 and KV-6 and are summarized below:

- At well KV-3 cis-1,2-DCE was detected at 172 and 182 feet bgs at concentrations of 0.6 and 0.6 µg/L, respectively.
- At well KV-6 cis-1,2-DCE was detected at 125 and 133 feet bgs at concentrations of 1.3 and 1.2 µg/L, respectively

At the Wescosa Well location, 1, 2-DCA was detected at a concentration of 6.4 µg/L, carbon disulfide was detected at a concentration of 1.0 µg/L, and vinyl chloride was detected at a concentration of 2.2 µg/L. Other analytes were not detected at wells sampled this quarter.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

ARCADIS

Jeremie Maehr, PE
Certified Project Manager

Katherine Brandt
Senior Geologist

Attachments:

Table 1	Summary of Groundwater Elevation Data – Selected Wells
Table 2	Results of Laboratory Analyses for Selected Purgeable Halocarbons
Table 3	Results of Laboratory Analyses for Volatile Organic Compounds in the Treatment System Samples
Table 4	Summary of Groundwater Extraction, Usage and Discharge to Bean Creek
Figure 1	Regional and Perched Zone Groundwater Wells and Soil Vapor Wells
Figure 2	Regional Zone Groundwater Elevations (July 2014)
Figure 3	Groundwater Analytical Results – PCE and TCE (July 2014)
Appendix A	Data Validation Summary
Appendix B	Groundwater Sampling Field Forms
Appendix C	Laboratory Analytical Results

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ARCADIS

Tables

Table 1
Summary of Groundwater Elevation Data – Selected Wells
Watkins-Johnson Superfund Site
Scotts Valley, California
USEPA Third Quarter 2014 Monitoring Report

Monitoring Well	Date	TOC Elevation (feet msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Change from Previous Measurement (ft)	Quarter
AP-1	02/02/07	532.49	188.52	343.97	---	1st 2007
AP-1	02/12/08	532.49	190.15	342.34	-1.63	1st 2008
AP-3N	02/02/07	523.05	175.52	347.53	---	1st 2007
AP-3N	02/12/08	523.05	175.86	347.19	-0.34	1st 2008
AP-3N	03/20/09	523.05	174.56	348.49	1.30	2nd 2009
AP-3N	04/21/09	523.05	194.60	328.45	-20.04	2nd 2009
AP-3N	05/21/09	523.05	174.65	348.40	19.95	2nd 2009
DH-7	02/23/10	469.18	98.90	370.28	---	1st 2010
M-1	02/02/07	524.38	180.02	344.36	---	1st 2007
M-1	02/12/08	524.38	179.85	344.53	0.17	1st 2008
MW-2	10/20/09	482.21	DRY	DRY	---	4th 2009
OB-1	02/02/07	453.16	107.33	345.83	---	1st 2007
OB-1	02/12/08	453.16	108.90	344.26	-1.57	1st 2008
OB-1	03/20/09	453.16	105.82	347.34	3.08	2nd 2009
OB-1	04/21/09	453.16	107.35	345.81	-1.53	2nd 2009
OB-1	05/21/09	453.16	105.30	347.86	3.60	2nd 2009
OB-1	02/23/10	453.16	105.63	347.53	0.19	1st 2010
OB-2	02/02/07	455.23	109.15	346.08	---	1st 2007
OB-2	02/12/08	455.23	110.85	344.38	-1.70	1st 2008
OB-2	12/19/08	455.23	111.50	343.73	-0.65	1st 2009
OB-2	02/23/09	455.23	108.76	346.47	2.74	1st 2009
OB-2	03/20/09	455.23	107.80	347.43	0.96	2nd 2009
OB-2	04/21/09	455.23	107.26	347.97	0.54	2nd 2009
OB-2	05/21/09	455.23	107.22	348.01	0.04	2nd 2009
OB-2	02/23/10	455.23	107.40	347.83	-0.18	1st 2010
OB-3	02/02/07	455.97	109.60	346.37	---	1st 2007
OB-3	02/18/07	455.97	111.20	344.77	-1.60	1st 2008
PZE-6	10/20/09	453.49	DRY	DRY	---	4th 2009
RA-1	02/02/07	453.92	108.10	345.82	---	1st 2007
RA-1	02/18/07	453.92	109.70	344.22	-1.60	1st 2008
RA-1	12/05/08	453.92	110.73	343.19	-1.03	1st 2009
RA-1	12/19/08	453.92	110.30	343.62	0.43	1st 2009
RA-1	02/23/09	453.92	107.30	346.62	3.00	1st 2009
RA-1	03/20/09	453.92	106.30	347.62	1.00	2nd 2009
RA-1	04/21/09	453.92	105.90	348.02	0.40	2nd 2009
RA-1	05/21/09	453.92	105.85	348.07	1.45	2nd 2009
RA-2	02/02/07	454.44	125.60	328.84	---	1st 2007
RA-2	02/12/08	454.44	117.68	336.76	7.92	1st 2008
RA-2	12/05/08	454.44	118.70	335.74	-1.02	1st 2009
RA-2	12/19/08	454.44	116.20	338.24	2.50	1st 2009
RA-2	02/23/09	454.44	108.25	346.19	7.95	1st 2009
RA-2	03/20/09	454.44	102.20	352.24	6.05	2nd 2009
RA-2	04/21/09	454.44	106.90	347.54	-4.70	2nd 2009
RA-2	05/21/09	454.44	106.85	347.59	1.40	2nd 2009
RA-3	02/02/07	469.78	125.54	344.24	---	1st 2007
RA-3	02/12/08	469.78	125.72	344.06	-0.18	1st 2008
RA-3	12/05/08	469.78	126.90	342.88	-1.18	1st 2009
RA-3	12/19/08	469.78	126.90	342.88	0.00	1st 2009
RA-3	02/23/09	469.78	124.90	344.88	2.00	1st 2009
RA-3	03/20/09	469.78	124.30	345.48	0.60	2nd 2009

Table 1
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Scotts Valley, California
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Monitoring Well	Date	TOC Elevation (feet msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Change from Previous Measurement (ft)	Quarter
RA-3	04/21/09	469.78	124.23	345.55	0.07	2nd 2009
RA-3	05/21/09	469.78	124.46	345.32	0.44	2nd 2009
RA-4	12/05/08	450.09	106.50	343.59	---	1st 2009
RA-4	12/19/08	450.09	106.46	343.63	0.04	1st 2009
SUPPLY WELL	02/02/07	483.20	136.34	346.86	---	1st 2007
SUPPLY WELL	02/12/08	483.20	136.15	347.05	0.19	1st 2008
SUPPLY WELL	02/23/10	483.20	135.32	347.88	0.83	1st 2010
SVWD #9 Monitor Well	05/13/08	528.00	181.50	346.50	---	2nd 2008
WJ-11	02/02/07	467.46	120.58	346.88	---	1st 2007
WJ-11	02/12/08	467.46	122.43	345.03	-1.85	1st 2008
WJ-11	12/05/08	467.46	123.35	344.11	-0.92	1st 2009
WJ-11	12/19/08	467.46	123.34	344.12	0.01	1st 2009
WJ-11	02/23/09	467.46	120.67	346.79	2.67	1st 2009
WJ-11	03/20/09	467.46	119.70	347.76	0.97	2nd 2009
WJ-11	04/21/09	467.46	119.10	348.36	0.60	2nd 2009
WJ-11	05/21/09	467.46	118.91	348.55	0.19	2nd 2009
WJ-11	02/23/10	467.46	119.51	347.95	-0.60	1st 2010
WJ-11	05/12/10	467.46	119.57	347.89	-0.06	2nd 2010
WJ-11	08/19/10	467.46	119.72	347.74	-0.15	3rd 2010
WJ-11*	11/17/10	470.22	120.09	350.13	2.39	4th 2010
WJ-11*	02/09/11	470.22	119.84	350.38	0.25	1st 2011
WJ-11*	04/13/11	470.22	118.76	351.46	1.08	2nd 2011
WJ-11*	07/19/11	470.22	118.24	351.98	0.52	3rd 2011
WJ-11*	10/18/11	470.22	117.73	352.49	0.51	4th 2011
WJ-11*	02/09/12	470.22	116.66	353.56	1.07	1st 2012
WJ-11*	05/31/12	470.22	119.07	351.15	-2.41	2nd 2012
WJ-11*	08/15/12	470.22	118.42	351.80	0.65	3rd 2012
WJ-11*	10/23/12	470.22	119.02	351.20	-0.60	4th 2012
WJ-11*	01/09/13	470.22	119.29	350.93	-0.27	1st 2013
WJ-11*	03/11/13	470.22	119.50	350.72	-0.21	2nd 2013
WJ-11*	07/10/13	470.22	120.35	349.87	-0.85	3rd 2013
WJ-11*	10/10/13	470.22	120.72	349.50	-0.37	4th 2013
WJ-11*	01/23/14	470.22	119.82	350.40	0.90	1st 2014
WJ-11*	03/13/14	470.22	120.31	349.91	-0.49	2nd 2014
WJ-11*	**07/03/14**	**470.22**	**121.07**	**349.15**	**-0.76**	**3rd 2014**
WJ-21	02/02/07	unk	133.84	NA	---	1st 2007
WJ-21	02/12/08	unk	133.86	NA	NA	1st 2008
WJ-22	02/02/07	477.89	134.20	343.69	---	1st 2007
WJ-22	02/12/08	477.89	134.15	343.74	0.05	1st 2008
WJ-25A	02/02/07	459.42	132.21	327.21	---	1st 2007
WJ-25A	02/12/08	459.42	116.50	342.92	15.71	1st 2008
WJ-25A	12/05/08	459.42	116.45	342.97	0.05	1st 2009
WJ-25A	12/19/08	459.42	116.40	343.02	0.05	1st 2009
WJ-25A	02/23/09	459.42	128.38	331.04	-11.98	1st 2009
WJ-25A	03/20/09	459.42	116.22	343.20	12.16	2nd 2009
WJ-25A	04/21/09	459.42	116.39	343.03	-0.17	2nd 2009
WJ-25A	05/21/09	459.42	113.57	345.85	2.82	2nd 2009
WJ-26	02/02/07	477.90	131.02	346.88	---	1st 2007
WJ-26	02/12/08	477.90	132.72	345.18	-1.70	1st 2008
WJ-29A	02/02/07	448.90	102.64	346.26	---	1st 2007

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Scotts Valley, California
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Monitoring Well	Date	TOC Elevation (feet msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Change from Previous Measurement (ft)	Quarter
WJ-29A	02/12/08	448.90	103.35	345.55	-0.71	1st 2008
WJ-29A	02/23/09	448.90	102.55	346.35	0.80	1st 2009
WJ-29A	03/20/09	448.90	101.70	347.20	0.85	2nd 2009
WJ-29A	04/21/09	448.90	101.50	347.40	0.20	2nd 2009
WJ-29A	05/21/09	448.90	101.51	347.39	-0.01	2nd 2009
WJ-37	10/20/09	461.91	85.37	376.54	---	4th 2009
WJ-37A	02/02/07	462.54	115.85	346.69	---	1st 2007
WJ-37A	02/12/08	462.54	117.65	344.89	-1.80	1st 2008
WJ-37A	12/05/08	462.54	118.65	343.89	-1.00	1st 2009
WJ-37A	12/19/08	462.54	118.15	344.39	0.50	1st 2009
WJ-37A	02/23/09	462.54	115.80	346.74	2.35	1st 2009
WJ-37A	03/20/09	462.54	114.83	347.71	0.97	2nd 2009
WJ-37A	04/21/09	462.54	114.30	348.24	0.53	2nd 2009
WJ-37A	05/21/09	462.54	114.15	348.39	0.15	2nd 2009
WJ-37A	02/23/10	462.54	114.73	347.81	-0.58	1st 2010
WJ-37A	05/12/10	462.54	114.79	347.75	-0.06	2nd 2010
WJ-37A	08/19/10	462.54	114.93	347.61	-0.14	3rd 2010
WJ-37A*	11/17/10	465.28	115.32	349.96	2.35	4th 2010
WJ-37A*	02/09/11	465.28	115.03	350.25	0.29	1st 2011
WJ-37A*	04/13/11	465.28	113.91	351.37	1.12	2nd 2011
WJ-37A*	07/19/11	465.28	113.51	351.77	0.40	3rd 2011
WJ-37A*	10/18/11	465.28	112.94	352.34	0.57	4th 2011
WJ-37A*	02/09/12	465.28	113.83	351.45	-0.89	1st 2012
WJ-37A*	05/31/12	465.28	114.37	350.91	-0.54	2nd 2012
WJ-37A*	08/15/12	465.28	113.73	351.55	0.64	3rd 2012
WJ-37A*	10/23/12	465.28	114.23	351.05	-0.50	4th 2012
WJ-37A*	01/09/13	465.28	114.51	350.77	-0.28	1st 2013
WJ-37A*	03/11/13	465.28	118.82	346.46	-4.31	2nd 2013
WJ-37A*	07/10/13	465.28	116.25	349.03	2.57	3rd 2013
WJ-37A*	10/16/13	465.28	115.87	349.41	0.38	4th 2013
WJ-37A*	01/23/14	465.28	115.03	350.25	0.84	1st 2014
WJ-37A*	03/13/14	465.28	115.55	349.73	-0.52	2nd 2014
WJ-37A*	**07/03/17**	**465.28**	**116.33**	**348.95**	**-0.78**	**3rd 2014**
WJ-41	05/01/07	522.63	175.91	346.72	---	3rd 2006
WJ-41	08/15/07	522.63	176.83	345.80	-0.92	4th 2006
WJ-41	11/13/07	522.63	174.50	348.13	2.33	1st 2007
WJ-41	02/12/08	522.63	177.08	345.55	-2.58	1st 2008
WJ-41	05/13/08	522.63	177.40	345.23	-0.32	2nd 2008
WJ-41	08/05/08	522.63	177.77	344.86	-0.37	3rd 2008
WJ-41	12/05/08	522.63	178.90	343.73	-1.13	1st 2009
WJ-41	12/19/08	522.63	177.78	344.85	1.12	1st 2009
WJ-41	02/23/09	522.63	175.12	347.51	2.66	1st 2009
WJ-41	03/20/09	522.63	174.20	348.43	0.92	2nd 2009
WJ-41	04/21/09	522.63	173.84	348.79	0.36	2nd 2009
WJ-41	05/21/09	522.63	173.75	348.88	0.09	2nd 2009
WJ-41	08/06/09	522.63	173.80	348.83	-0.05	3rd 2009
WJ-41	10/20/09	522.63	173.94	348.69	-0.14	4th 2009
WJ-41	02/23/10	522.63	173.96	348.67	-0.02	1st 2010
WJ-41	05/12/10	522.63	174.23	348.40	-0.27	2nd 2010
WJ-41	08/19/10	522.63	174.49	348.14	-0.26	3rd 2010
WJ-41*	11/17/10	523.65	174.83	348.82	0.68	4th 2010
WJ-41*	02/09/11	523.65	174.61	349.04	0.22	1st 2011
WJ-41*	04/13/11	523.65	173.09	350.56	1.52	2nd 2011

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Monitoring Well	Date	TOC Elevation (feet msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Change from Previous Measurement (ft)	Quarter
WJ-41*	07/19/11	523.65	173.11	350.54	-0.02	3rd 2011
WJ-41*	10/18/11	523.65	172.63	351.02	0.48	4th 2011
WJ-41*	02/09/12	523.65	173.54	350.11	-0.91	1st 2012
WJ-41*	05/31/12	523.65	174.00	349.65	-0.46	2nd 2012
WJ-41*	08/15/12	523.65	173.14	350.51	0.86	3rd 2012
WJ-41*	10/23/12	523.65	172.84	350.81	0.30	4th 2012
WJ-41*	01/09/13	523.65	173.49	350.16	-0.65	1st 2013
WJ-41*	03/11/13	523.65	174.29	349.36	-0.80	2nd 2013
WJ-41*	07/10/13	523.65	175.29	348.36	-1.00	3rd 2013
WJ-41*	10/16/13	523.65	175.35	348.30	-0.06	4th 2013
WJ-41*	01/23/14	523.65	174.23	349.42	1.12	1st 2014
WJ-41*	03/13/14	523.65	174.87	348.78	-0.64	2nd 2014
WJ-41*	**07/03/14**	**523.65**	**175.74**	**347.91**	**-0.87**	**3rd 2014**
WJ-43	05/01/07	467.48	120.96	346.52	---	3rd 2006
WJ-43	08/15/07	467.48	121.95	345.53	-0.99	4th 2006
WJ-43	11/13/07	467.48	123.30	344.18	-1.35	1st 2007
WJ-43	02/12/08	467.48	122.59	344.89	0.71	1st 2008
WJ-43	05/13/08	467.48	122.72	344.76	-0.13	2nd 2008
WJ-43	08/05/08	467.48	123.13	344.35	-0.41	3rd 2008
WJ-43	12/05/08	467.48	123.50	343.98	-0.37	1st 2009
WJ-43	12/19/08	467.48	123.50	343.98	0.00	1st 2009
WJ-43	02/23/09	467.48	120.82	346.66	2.68	1st 2009
WJ-43	03/20/09	467.48	119.84	347.64	0.98	2nd 2009
WJ-43	04/21/09	467.48	119.25	348.23	0.59	2nd 2009
WJ-43	05/21/09	467.48	119.10	348.38	0.15	2nd 2009
WJ-43	08/06/09	467.48	119.18	348.30	-0.08	3rd 2009
WJ-43	10/20/09	467.48	119.39	348.09	-0.21	4th 2009
WJ-43	02/23/10	467.48	119.62	347.86	-0.23	1st 2010
WJ-43	05/12/10	467.48	119.71	347.77	-0.09	2nd 2010
WJ-43	08/19/10	467.48	119.82	347.66	-0.11	3rd 2010
WJ-43*	11/17/10	470.19	120.23	349.96	2.30	4th 2010
WJ-43*	02/09/11	470.19	119.96	350.23	0.27	1st 2011
WJ-43*	04/13/11	470.19	118.93	351.26	1.03	2nd 2011
WJ-43*	07/19/11	470.19	118.42	351.77	0.51	3rd 2011
WJ-43*	10/18/11	470.19	117.86	352.33	0.56	4th 2011
WJ-43*	02/09/12	470.19	118.69	351.50	-0.83	1st 2012
WJ-43*	05/31/12	470.19	119.21	350.98	-0.52	2nd 2012
WJ-43*	08/15/12	470.19	118.62	351.57	0.59	3rd 2012
WJ-43*	10/23/12	470.19	119.19	351.00	-0.57	4th 2012
WJ-43*	01/09/13	470.19	119.33	350.86	-0.14	1st 2013
WJ-43*	03/11/13	470.19	119.54	350.65	-0.21	2nd 2013
WJ-43*	07/10/13	470.19	121.50	348.69	-1.96	3rd 2013
WJ-43*	10/16/13	470.19	120.76	349.43	0.74	4th 2013
WJ-43*	01/23/14	470.19	119.98	350.21	0.78	1st 2014
WJ-43*	03/13/14	470.19	120.42	349.77	-0.44	2nd 2014
WJ-43*	**07/03/14**	**470.19**	**121.23**	**348.96**	**-0.81**	**3rd 2014**
WJ-48	02/02/07	453.54	107.22	346.32	---	1st 2007
WJ-48	02/12/08	453.54	108.94	344.60	-1.72	1st 2008
WJ-48	02/23/10	453.54	105.60	347.94	3.34	1st 2010
WJ-49	02/02/07	459.72	113.35	346.37	---	1st 2007
WJ-49	02/12/08	459.72	118.91	340.81	-5.56	1st 2008
WJ-51	10/20/09	490.74	DRY	DRY	---	4th 2009

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Monitoring Well	Date	TOC Elevation (feet msl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Change from Previous Measurement (ft)	Quarter
KV-1*	01/05/11	526.51	175.51	351.00	0.00	1st 2011
KV-1*	02/09/11	526.51	175.32	351.19	-0.19	1st 2011
KV-1*	04/13/11	526.51	174.31	352.20	1.01	2nd 2011
KV-1*	07/19/11	526.51	173.84	352.67	0.47	3rd 2011
KV-1*	10/18/11	526.51	173.13	353.38	0.71	4th 2011
KV-1*	02/09/12	526.51	173.97	352.54	-0.84	1st 2012
KV-1*	05/31/12	526.51	173.97	352.54	0.00	2nd 2012
KV-1*	08/15/12	526.51	173.83	352.68	0.14	3rd 2012
KV-1*	10/23/12	526.51	174.41	352.10	-0.58	4th 2012
KV-1*	01/09/13	526.51	174.69	351.82	-0.28	1st 2013
KV-1*	03/11/13	526.51	174.89	351.62	-0.20	2nd 2013
KV-1*	07/10/13	526.51	175.26	351.25	-0.37	3rd 2013
KV-1*	10/10/13	526.51	176.07	350.44	-0.81	4th 2013
KV-1*	01/23/14	526.51	175.19	351.32	0.88	1st 2014
KV-1*	03/13/14	526.51	175.78	350.73	-0.59	2nd 2014
KV-1*	**07/01/14**	**526.51**	**176.38**	**350.13**	**-0.60**	**3rd 2014**
KV-2*	01/05/11	527.70	176.79	350.91	0.00	1st 2011
KV-2*	02/09/11	527.70	176.71	350.99	-0.08	1st 2011
KV-2*	04/13/11	527.70	175.54	352.16	1.17	2nd 2011
KV-2*	07/19/11	527.70	174.93	352.77	0.61	3rd 2011
KV-2*	10/18/11	527.70	171.57	356.13	3.36	4th 2011
KV-2*	02/09/12	527.70	175.11	352.59	-3.54	1st 2012
KV-2*	05/31/12	527.70	175.11	352.59	0.00	2nd 2012
KV-2*	08/15/12	527.70	175.13	352.57	-0.02	3rd 2012
KV-2*	10/23/12	527.70	175.73	351.97	-0.60	4th 2012
KV-2*	01/09/13	527.70	175.97	351.73	-0.24	1st 2013
KV-2*	03/11/13	527.70	176.17	351.53	-0.20	2nd 2013
KV-2*	07/10/13	527.70	177.11	350.59	-0.94	3rd 2013
KV-2*	10/10/13	527.70	177.31	350.39	-0.20	4th 2013
KV-2*	01/23/14	527.70	176.51	351.19	0.80	1st 2014
KV-2*	03/13/14	527.70	177.09	350.61	-0.58	2nd 2014
KV-2*	**07/01/14**	**527.70**	**176.63**	**351.07**	**0.46**	**3rd 2014**
KV-3*	11/17/10	528.19	137.21	390.98	0.00	4th 2010
KV-3*	01/05/11	528.19	135.37	392.82	-1.84	1st 2011
KV-3*	02/09/11	528.19	---	---	---	1st 2011
KV-3*	04/13/11	528.19	135.09	393.10	---	2nd 2011
KV-3*	07/19/11	528.19	133.89	394.30	1.20	3rd 2011
KV-3*	10/18/11	528.19	133.13	395.06	0.76	4th 2011
KV-3*	02/09/12	528.19	131.51	396.68	1.62	1st 2012
KV-3*	05/31/12	528.19	131.51	396.68	0.00	2nd 2012
KV-3*	08/15/12	528.19	130.23	397.96	1.28	3rd 2012
KV-3*	10/23/12	528.19	129.57	398.62	0.66	4th 2012
KV-3*	01/09/13	528.19	128.53	399.66	1.04	1st 2013
KV-3*	03/11/13	528.19	127.83	400.36	0.70	2nd 2013
KV-3*	07/10/13	528.19	133.57	394.62	-5.74	3rd 2013
KV-3*	10/10/13	528.19	129.54	398.65	4.03	4th 2013
KV-3*	01/23/14	528.19	127.77	400.42	1.77	1st 2014
KV-3*	03/13/14	528.19	128.19	400.00	-0.42	2nd 2014
KV-3*	**07/01/14**	**528.19**	**128.5**	**399.69**	**-0.31**	**3rd 2014**
KV-4*	01/05/11	527.69	172.84	354.85	0.00	1st 2011
KV-4*	02/09/11	527.69	172.75	354.94	-0.09	1st 2011
KV-4*	04/13/11	527.69	171.87	355.82	0.88	2nd 2011
KV-4*	07/19/11	527.69	171.13	356.56	0.74	3rd 2011

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KV-4*	10/18/11	527.69	169.87	357.82	1.26	4th 2011
KV-4*	02/09/12	527.69	170.49	357.20	-0.62	1st 2012
KV-4*	05/31/12	527.69	170.09	357.60	0.40	2nd 2012
KV-4*	08/15/12	527.69	170.04	357.65	0.05	3rd 2012
KV-4*	10/23/12	527.69	169.63	358.06	0.41	4th 2012
KV-4*	01/09/13	527.69	106.25	421.44	63.38	1st 2013
KV-4*	03/11/13	527.69	169.50	358.19	-63.25	2nd 2013
KV-4*	07/10/13	527.69	109.31	418.38	60.19	3rd 2013
KV-4*	10/10/13	527.69	177.03	350.66	-67.72	4th 2013
KV-4*	01/23/14	527.69	174.73	352.96	2.30	1st 2014
KV-4*	03/13/14	527.69	175.90	351.79	-1.17	2nd 2014
KV-4*	**07/01/14**	**527.69**	**175.38**	**352.31**	**0.52**	**3rd 2014**
KV-5	01/23/14	517.49	118.50	398.99	0.00	1st 2014
KV-5	03/13/14	517.49	118.26	399.23	0.24	2nd 2014
KV-5	**07/01/14**	**517.49**	**118.32**	**399.17**	**-0.06**	**3rd 2014**
KV-6	01/23/14	516.85	122.02	394.83	0.00	1st 2014
KV-6	03/13/14	516.85	122.30	394.55	-0.28	2nd 2014
KV-6	**07/01/14**	**516.85**	**122.41**	**394.44**	**-0.11**	**3rd 2014**
KV-7	01/23/14	517.84	109.48	408.36	0.00	1st 2014
KV-7	03/13/14	517.84	109.63	408.21	-0.15	2nd 2014
KV-7	**07/01/14**	**517.84**	**109.53**	**408.31**	**0.10**	**3rd 2014**
KV-8	01/23/14	524.29	171.28	353.01	0.00	1st 2014
KV-8	03/13/14	524.29	171.80	352.49	-0.52	2nd 2014
KV-8	**07/01/14**	**524.29**	**172.27**	**352.02**	**-0.47**	**3rd 2014**
KV-9	01/23/14	522.17	134.16	388.01	0.00	1st 2014
KV-9	03/13/14	522.17	134.53	387.64	-0.37	2nd 2014
KV-9	**07/01/14**	**522.17**	**134.96**	**387.21**	**-0.43**	**3rd 2014**
EX-1	01/23/14	470.89	120.39	350.50	0.00	1st 2014
EX-1	03/13/14	470.89	120.93	349.96	-0.54	2nd 2014
EX-1	**07/03/14**	**470.89**	**121.68**	**349.21**	**-0.75**	**3rd 2014**

Notes:

ft = feet
ft amsl = feet above mean sea level
ft btoc = feet below top of casing
--- unable to gauge water level
TOC top of casing
DRY well casing is dry
* Surveyed / Re-surveyed by Muir Consulting on 12/10/10

Table 2
Results of Laboratory Analyses for Selected Purgeable Halocarbons
Watkins-Johnson Superfund Site
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Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
KV-1 -180	1/5/2011	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1 -180	02/09/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1 -180	04/13/11	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1 -180	07/19/11	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1 -180	10/18/11	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1 -180	02/09/12	12	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1 -180	05/31/12	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1-180	08/15/12	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1 -180	10/23/12	2	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1-180	01/09/13	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1-180	03/11/13	1.9	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
KV-1 -180	07/10/13	2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
KV-1-180	10/10/13	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1-180	01/23/14	2.2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.1	<0.5	<0.5	<0.5
KV-1-180	03/13/14	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-1-180	**07/01/14**	**2.6**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-2 -180	01/05/11	35	0.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2 -180	02/09/11	22	1.1	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	02/09/11	21	1.0	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	04/13/11	39	0.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	04/13/11	40	0.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	07/19/11	53	1.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	07/19/11	51	1.7	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	10/18/11	48	1.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	10/18/11	50	1.7	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	02/09/12	23	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	02/09/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	05/31/12	58	1.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	05/31/12	60	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	08/15/12	51	1.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	08/15/12	56	1.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	10/23/12	67	1.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	10/23/12	63	2.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	01/09/13	58	2.0	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	01/09/13	59	2.2	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	03/11/13	58	1.8	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
KV-2-180	07/10/13	27	1.1	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	07/10/13	28	1.1	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	---
KV-2-180	10/10/13	32	1.3	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	10/10/13	32	1.2	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	01/23/14	30	0.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	01/23/14	30	0.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	03/13/14	27	0.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-180/Dup 2	03/13/14	21	0.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-180	**07/01/14**	**24**	**0.6**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-2-180/Dup 2	**07/01/14**	**23**	**0.6**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**---**
KV-2-190	01/05/11	14	1.4	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-190	02/09/11	11	1.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-190	04/13/11	19	1.2	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-190	07/19/11	27	1.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-190	10/18/11	24	1.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-190	02/09/12	6.1	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-190	05/31/12	38	1.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-190	08/15/12	22	2.2	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-190	10/23/12	27	1.7	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-190	01/09/13	25	2.3	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-190	03/11/13	23	2.0	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
KV-2-190/Dup 2	03/11/13	24	2.2	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
KV-2-190	07/10/13	12	1.7	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
KV-2-190	10/10/13	15	2.1	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-190	01/23/14	16	1.8	<0.5	<0.5	<0.5	<0.5	<1.1	<0.5	<0.5	<0.5

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Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
KV-2-190	03/13/14	9.9	1.4	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-190	**07/01/14**	**14**	**1.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-2-200	01/05/11	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-200	02/09/11	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-200	04/13/11	5.9	1.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-200	07/19/11	8.1	2.4	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-200	10/18/11	8.0	2.3	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-200	02/09/12	2.2	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-200	05/31/12	12	2.4	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-200	08/15/12	9.8	2.4	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-200	10/23/12	10	1.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-200	01/09/13	11	2.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-2-200	03/11/13	11	2.4	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
KV-2-200	07/10/13	7.4	2.4	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
KV-2-200	10/10/13	8.6	2.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-200	01/23/14	8	2.3	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-200	03/13/14	4.7	1.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-2-200	**07/01/14**	**6.5**	**2.3**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-3-172	11/17/10	<0.5	1.2	<0.5	<0.5	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	01/05/11	0.7	1.0	<0.5	<0.5	0.7	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	02/17/11	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	04/13/11	1.0	1.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	07/19/11	1.1	1.8	<0.5	<0.5	0.6	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	10/18/11	1.0	1.8	<0.5	<0.5	0.6	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	02/09/12	1.2	1.7	<0.5	<0.5	0.7	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	05/31/12	1.6	1.8	<0.5	<0.5	0.7	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	08/15/12	0.9	1.7	<0.5	<0.5	0.8	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	10/23/12	1.2	2.0	<0.5	<0.5	1.0	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	01/09/13	1.1	1.9	<0.5	<0.5	0.9	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	03/11/13	0.9	1.7	<0.5	<0.5	0.8	<1.0	<2.0	<0.5	<0.5	<0.5
KV-3-172	07/10/13	0.7	1.7	<0.5	<0.5	0.9	<0.5	<1.0	<0.5	<0.5	<0.5
KV-3-172	10/10/13	0.9	1.9	<0.5	<0.5	0.9	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-172	01/23/14	1.1	1.6	<0.5	<0.5	0.9	<0.5	<5.0	<0.5	<0.5	0.5
KV-3-172	03/13/14	0.9	1.6	<0.5	<0.5	0.8	<0.5	<5.0	<0.5	<0.5	0.5
KV-3-172	**07/01/14**	**<0.5**	**2.4**	**<0.5**	**<0.5**	**0.6**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-3-182	11/17/10	<0.5	1.2	<0.5	<0.5	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-3-182	01/05/11	0.5	0.9	<0.5	<0.5	0.6	<0.5	<5.0	<0.5	<0.5	---
KV-3-182	02/17/11	<0.5	1.4	<0.5	<0.5	0.6	<0.5	<5.0	<0.5	<0.5	---
KV-3-182	04/13/11	1.1	1.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-3-182	07/19/11	1.2	1.4	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-3-182	10/18/11	1.0	1.4	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-3-182	02/09/12	1.2	1.4	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-3-182	05/31/12	1.6	1.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-3-182	08/15/12	1.0	1.6	<0.5	<0.5	0.6	<0.5	<5.0	<0.5	<0.5	---
KV-3-182	10/23/12	1.1	1.7	<0.5	<0.5	0.8	<0.5	<5.0	<0.5	<0.5	---
KV-3-182	01/09/13	1.3	1.7	<0.5	<0.5	0.8	<0.5	<5.0	<0.5	<0.5	---
KV-3-182	03/11/13	1.0	1.7	<0.5	<0.5	0.8	<1.0	<2.0	<0.5	<0.5	<0.5
KV-3-182	07/10/13	0.6	1.4	<0.5	<0.5	0.7	<0.5	<1.0	<0.5	<0.5	0.6
KV-3-182	10/10/13	1.1	1.9	<0.5	<0.5	0.7	<0.5	<5.0	<0.5	<0.5	1.7
KV-3-182	01/23/14	1.1	1.7	<0.5	<0.5	0.7	<0.5	<5.0	<0.5	<0.5	1.6
KV-3-182	03/13/14	0.9	1.5	<0.5	<0.5	0.7	<0.5	<5.0	<0.5	<0.5	1.0
KV-3-182	**07/01/14**	**0.9**	**1.5**	**<0.5**	**<0.5**	**0.6**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-4-185	01/05/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185 / Dup 1	01/05/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
KV-4-185	02/09/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	04/13/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	07/19/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	10/18/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	02/09/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	05/31/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5

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Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
KV-4-185	08/15/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	10/23/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	01/09/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	03/11/13	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
KV-4-185	07/10/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
KV-4-185	10/10/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	01/23/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	03/13/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-4-185	**07/01/14**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-5-126	01/23/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-5-126	03/13/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-5-126	**07/01/14**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-6-125	01/23/14	63	3.3	<0.5	<0.5	1.3	<0.5	<5.0	<0.5	<0.5	<0.5
KV-6-125	03/13/14	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-6-125	**07/01/14**	**68**	**3.5**	**<0.5**	**<0.5**	**1.3**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-6-133	01/23/14	38	3.6	<0.5	<0.5	1.0	<0.5	<5.0	<0.5	<0.5	<0.5
KV-6-133	03/13/14	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-6-133	**07/01/14**	**63**	**4.0**	**<0.5**	**<0.5**	**1.2**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-7-115	01/23/14	73	0.7	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-7-115	03/13/14	---	---	---	---	---	---	---	---	---	---
KV-7-115	**07/01/14**	**67**	**0.6**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1.0**	**<0.5**	**<0.5**	**<0.5**
KV-7-125	01/23/14	31	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-7-125	03/13/14	49	0.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-7-125	**07/01/14**	**48**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<1.0**	**<0.5**	**<0.5**	**<0.5**
KV-7-136	01/23/14	27	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-7-136	03/13/14	22	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-7-136	**07/01/14**	**31**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-8-174	01/23/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-8-174	03/13/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-8-174	**07/01/14**	**1.6**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-8-185	01/23/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-8-185	03/13/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-8-185	**07/01/14**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-8-195	01/23/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-8-195	03/13/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-8-195	**07/01/14**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-9-138	01/23/14	13	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-9-138	03/13/14	20	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-9-138	**07/01/14**	**25**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
KV-9-148	01/23/14	12	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-9-148	03/13/14	17	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
KV-9-148	**07/01/14**	**25**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
EX-1-125	01/23/14	12	0.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
EX-1-125	03/13/14	13	0.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
EX-1-125	**07/03/14**	**11**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
EX-1-145	01/23/14	19	0.7	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
EX-1-145	03/13/14	30	0.7	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
EX-1-145	**07/03/14**	**31**	**0.9**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
Wescosa Well	11/17/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	02/09/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	04/13/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	07/19/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	10/18/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	02/09/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	05/31/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	08/15/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5

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Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
Wescosa Well	10/23/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	01/09/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	03/11/13	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
Wescosa Well	07/10/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	10/10/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	01/23/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	03/13/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Wescosa Well	**07/01/14**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
WJ-11	01/03/85	---	<1	---	---	<1	---	---	---	---	---
WJ-11	08/02/86	0.03	<0.01	---	---	---	---	---	---	---	---
WJ-11	11/26/86	<1	<1	---	---	---	---	---	---	---	---
WJ-11	12/10/86	<1	<1	---	---	---	---	---	---	---	---
WJ-11	01/07/87	<1	<1	---	---	---	---	---	---	---	---
WJ-11	01/29/87	<0.5	<0.5	---	---	---	---	---	---	---	---
WJ-11	05/23/87	<0.5	<0.5	---	---	<0.5	---	---	---	---	---
WJ-11	08/26/87	<0.5	<0.5	---	---	---	---	---	---	---	---
WJ-11	09/11/91	<0.5	<0.5	---	---	<0.5	---	---	---	---	---
WJ-11	03/03/92	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-11	12/08/92	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-11	06/14/93	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-11	11/18/05	7.2	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-11	02/06/06	8.4	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-11	04/24/06	16	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-11	02/02/07	8.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
WJ-11	12/19/08	9.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-11	02/20/09	23	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-11	03/20/09	16	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-11	04/21/09	16	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-11	05/20/09	15	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-11	02/23/10	20	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-11	05/12/10	2.1	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-11	08/19/10	2.0	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-11	11/17/10	13.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	02/09/11	11.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	04/13/11	26.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	07/19/11	20.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	10/18/11	25	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	02/09/12	21	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	05/31/12	11	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	08/15/12	42	0.7	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	10/23/12	43	0.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	01/09/13	42	0.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	03/11/13	37	0.7	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
WJ-11	07/10/13	12	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
WJ-11	10/10/13	26	0.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	01/23/14	38	0.7	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	03/13/14	30	0.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-11	**07/03/14**	**27**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
WJ-25A	07/03/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-25A	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
WJ-25A	12/19/08	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-25A	02/20/09	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-25A	03/20/09	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-25A	04/21/09	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-25A	05/20/09	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-26	06/15/96	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	1.9	0.6	0.6	---
WJ-26	06/02/99	<0.5	1.1	0.5	<0.5	<0.5	<0.5	5.1	1.1	1	---
WJ-26	12/13/99	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	---
WJ-26	06/16/00	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	1.9	0.6	0.6	---
WJ-26	12/15/00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	1.58	<0.500	<0.500	---

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Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
WJ-26	06/11/01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-26	06/11/01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-26	01/31/02	<0.50	0.52	<0.50	<0.50	<0.50	<0.50	2.2	<0.50	<0.50	---
WJ-26	06/27/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	1.1	<0.40	<0.50	---
WJ-26	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.99	<0.50	<0.50	<0.50
WJ-29A	06/14/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-29A	06/02/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
WJ-29A	12/13/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-29A	06/15/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-29A	12/15/00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-29A	06/07/01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-29A	01/31/02	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-29A	06/25/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-29A	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
WJ-37 (perched)	10/20/2009[2]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	05/25/87	<0.5	---	---	---	---	---	---	---	---	---
WJ-37A	08/24/87	<0.5	<0.5	---	---	---	---	---	---	---	---
WJ-37A	11/17/87	<0.5	<0.5	---	---	---	---	---	---	---	---
WJ-37A	03/10/88	<1	---	---	---	---	---	---	---	---	---
WJ-37A	06/19/88	<1	---	---	---	---	---	---	---	---	---
WJ-37A	09/15/88	<1	---	---	---	---	---	---	---	---	---
WJ-37A	06/22/89	---	<0.5	---	---	---	---	---	---	---	---
WJ-37A	09/02/89	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	06/20/90	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	09/18/90	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	09/12/91	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	03/04/92	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	09/15/92	0.73	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	12/08/92	ND	ND	---	---	---	---	---	---	---	---
WJ-37A	12/10/92	<0.5	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	06/14/93	ND	ND	---	---	---	---	---	---	---	---
WJ-37A	06/16/93	<0.5	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	12/14/93	0.5	ND	---	---	---	---	---	---	---	---
WJ-37A	12/15/93	0.5	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	06/15/94	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	12/20/94	ND	ND	---	---	---	---	---	---	---	---
WJ-37A	12/22/94	<0.5	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	06/05/95	ND	ND	---	---	---	---	---	---	---	---
WJ-37A	06/07/95	<0.5	0.8	---	---	<0.5	---	---	---	---	---
WJ-37A	12/27/95	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	06/12/96	<0.5	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	06/18/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-37A	12/16/96	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	06/23/97	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	06/22/98	<0.5	<0.5	---	---	---	---	---	---	---	---
WJ-37A	06/24/98	<0.5	<0.5	---	---	<0.5	---	---	---	---	---
WJ-37A	06/01/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
WJ-37A	06/19/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-37A	06/06/01	0.63	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-37A	06/27/02	0.63	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-37A	11/18/05	1.8	<0.5	<0.5	<0.5	<0.5	<1.0	2.4	<0.5	<0.5	---
WJ-37A	02/06/06	1	<0.5	<0.5	<0.5	<0.5	<1.0	0.9	<0.5	<0.5	---
WJ-37A	04/24/06	2.1	<0.5	<0.5	<0.5	<0.5	<1.0	1.4	<0.5	<0.5	---
WJ-37A	02/02/07	0.97	0.55	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
WJ-37A	12/19/08	22	6.4	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-37A	02/20/09	42	6.4	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-37A	03/20/09	25	9.3	<0.5	<0.5	0.6	<1.0	<2.0	<0.5	<0.5	---
WJ-37A	04/21/09	23	6.4	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-37A	05/20/09	17	3.7	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-37A	02/23/10	20	0.7	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---

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Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
WJ-37A	05/12/10	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-37A	08/19/10	22	0.9	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-37A	11/17/10	25	0.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	02/09/11	20	1.1	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	04/13/11	26	1.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	07/19/11	31	1.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	10/18/11	22	1.1	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	02/09/12	31	0.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	05/31/12	28	0.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	08/15/12	27	0.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	10/23/12	23	0.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	01/09/13	23	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	03/11/13	20	0.8	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
WJ-37A	07/10/13	19	1.2	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
WJ-37A	10/16/13	25	1.1	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	01/23/14	23	0.7	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	03/03/14	19	0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-37A	**07/02/14**	**16**	**0.6**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
WJ-41	06/15/88	<1.0	<1.0	---	---	---	---	---	---	---	---
WJ-41	09/13/88	<1.0	<1.0	---	---	---	---	---	---	---	---
WJ-41	11/30/88	<0.5	<0.5	---	---	---	---	---	---	---	---
WJ-41	06/21/89	---	<0.5	---	---	---	---	---	---	---	---
WJ-41	12/11/90	---	<0.5	---	<0.5	---	<0.5	---	<0.5	<0.5	---
WJ-41	03/12/91	---	<0.5	---	---	---	---	---	---	---	---
WJ-41	05/14/91	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-41	06/26/91	---	<0.5	---	<0.5	<0.5	<0.5	---	<0.5	<0.5	---
WJ-41	12/09/91	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-41	03/03/92	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-41	09/15/92	---	<0.5	ND	ND	<0.5	ND	---	ND	ND	---
WJ-41	06/14/94	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-41	06/07/95	---	0.8	ND	ND	<0.5	ND	ND	ND	ND	---
WJ-41	06/13/96	<0.5	4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	09/25/96	---	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	12/17/96	---	0.8	---	---	<0.5	---	---	---	---	---
WJ-41	06/26/97	---	3.3	---	---	<0.5	---	---	---	---	---
WJ-41	12/15/97	1.8	11	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
WJ-41	03/12/98	1.2	6.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	06/22/98	0.9	4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	12/14/98	---	7.2	---	---	<0.5	---	---	---	---	---
WJ-41	03/17/99	1.3	7.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	03/17/99	1.1	6.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	06/01/99	1.6	8.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
WJ-41	06/01/99	1.7	9.1	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
WJ-41	10/15/99	2.09	9.72	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-41	10/15/99	2.16	9.54	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-41	12/18/99	4.1	18.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	03/08/00	1.31	6.84	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-41	03/08/00	1.36	6.56	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-41	05/05/00	1.82	9.24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	06/14/00	3	15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	07/21/00	1.64	7.81	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	09/28/00	3.4	16.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	10/26/00	4.1	20.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---
WJ-41	11/28/00	2.8	13.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---
WJ-41	12/15/00	3.43	17	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-41	12/15/00	3.37	17	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-41	01/17/01	4.37	22.5	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-41	02/09/01	2.79	21.6	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-41	04/30/01	4.23	13.2	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-41	05/15/01	2.43	17.4	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-41	06/12/01	0.89	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---

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Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
WJ-41	07/31/01	2.2	12	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-41	07/31/01	2.4	13	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-41	08/30/01	2.8	6.2	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-41	09/20/01	2.4	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	10/25/01	2.4	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	11/21/01	2.8	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	01/31/02	5	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	01/31/02	5	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	03/27/02	<0.50	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	05/10/02	1.9	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	07/02/02	0.54	2.2	<0.10	<0.50	<0.50	<0.50	<1.0	<0.40	<0.50	---
WJ-41	09/24/02	0.56	2.3	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	11/24/02	0.79	2.7	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	12/26/02	0.65	2.3	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	01/31/03	1.4	7.4	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	01/31/03	1.4	7.4	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	05/13/03	2	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-41	08/14/03	4.8	33	<0.10	<0.5	<0.5	<0.5	<0.5	<0.4	<0.5	---
WJ-41	11/19/03	3.9	21	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	11/19/03	2.8	15	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	11/19/03	2.7	15	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50
WJ-41	12/30/03	2.9	14	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	12/30/03	1.2	2.8	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	12/30/03	0.99	2.6	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	01/28/04	1.1	4.9	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	01/28/04	0.94	3.2	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	01/28/04	0.84	2.9	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	01/28/04	0.96	3.4	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	01/28/04	0.6	2.4	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	02/25/04	1.4	9.6	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	02/25/04	0.8	2.4	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	02/25/04	0.7	2.2	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	02/25/04	0.59	2.3	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	03/25/04	1.7	14	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	03/25/04	0.53	2	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	03/25/04	0.61	2.2	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	03/25/04	0.52	1.9	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	05/11/04	3	14	<0.10	<0.20	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	08/03/04	2.8	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	08/03/04	2.6	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	11/02/04	4.5	19	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5	---
WJ-41	11/02/04	3.9	22	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-41	02/10/05	3.6	19	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	05/03/05	3.1	16	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	05/03/05	2.6	16	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	08/05/05	2.9	19	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	08/05/05	3	18	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	11/18/05	1.1	14	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-41	11/18/05	0.9	13	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-41	02/06/06	1.5	11	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-41	02/06/06	1.6	12	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-41	04/24/06	2.3	14	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-41	08/03/06	3.2	17	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-41	08/03/06	3.4	17	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-41	11/03/06	3.2	16	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-41	02/02/07	4	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
WJ-41/Dup 1	02/02/07	3.7	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
WJ-41	05/01/07	1.4	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-41	08/15/07	3.7	18	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50
WJ-41	11/13/07	3.5	14	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	---
WJ-41/Dup 1	11/13/07	3.5	14	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	---
WJ-41	02/12/08	3.0	12	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---

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Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
WJ-41/Dup 1	02/12/08	3.3	12	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
WJ-41	05/13/08	2.5	11	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
WJ-41/Dup 1	05/13/08	2.7	12	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
WJ-41	08/05/08	2.7	10	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
WJ-41/Dup 1	08/05/08	2.4	11	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
WJ-41	12/19/08	<0.5	5.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41/Dup 1	12/19/08	0.5	5.9	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41	02/20/09	1.1	5.6	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
WJ-41/Dup 1	02/20/09	1.2	5.8	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
WJ-41	03/20/09	0.7	6.4	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41/Dup 1	03/20/09	0.7	6.4	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41	04/21/09	1.5	8.2	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41/Dup 1	04/21/09	1.4	8.2	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41	05/20/09	1.3	8.7	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41/Dup 1	05/20/09	1.3	8.8	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41	08/06/09	1.7	6.9	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41/Dup 1	08/06/09	1.8	7	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41	10/20/09	0.7	1.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	10/20/09	0.6	1.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	02/23/10	0.8	2.1	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41	05/12/10	2.0	8.9	<0.5	<0.5	<0.5	<0.5	<5.1	<0.5	<0.5	---
WJ-41	08/19/10	2.8	9.8	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41/Dup 1	08/19/10	3.2	11	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-41	11/17/10	2.1	6.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	11/17/10	2.4	6.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	02/09/11	1.6	6.2	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	02/09/11	1.6	6.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	04/13/11	0.7	2.4	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	04/13/11	0.8	2.2	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	07/19/11	2.0	5.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	10/18/11	1.4	3.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	10/18/11	1.6	3.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	02/09/12	1.8	3.3	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	02/09/12	1.7	3.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	05/31/12	1.9	4.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	05/31/12	1.9	4.4	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	08/15/12	1.2	3.1	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	08/15/12	1.2	3.1	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	10/23/12	0.9	1.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	10/23/12	0.9	1.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	01/09/13	1.4	3.2	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	01/09/13	1.4	3.2	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	03/11/13	0.7	1.8	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	03/11/13	0.7	1.8	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
WJ-41	07/10/13	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	07/10/13	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
WJ-41	10/10/13	0.7	2.1	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	10/10/13	0.9	2.2	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	01/23/14	0.6	0.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	01/23/14	0.6	0.8	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	03/13/14	0.7	2	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41/Dup 1	03/13/14	0.7	1.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-41	**07/01/14**	**0.7**	**1.3**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
WJ-41/Dup 1	**07/01/14**	**0.6**	**1.3**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
WJ-43	06/14/88	<1.0	<1.0	---	---	---	---	---	---	---	---
WJ-43	09/14/88	<1.0	<1.0	---	---	---	---	---	---	---	---
WJ-43	09/14/88	<1.0	<1.0	---	---	---	---	---	---	---	---
WJ-43	03/29/89	---	<0.12	<0.13	---	---	<0.5	<0.5	<0.03	<0.02	---
WJ-43	06/22/89	---	<0.5	<0.5	<0.5	---	<0.5	<0.5	<0.5	<0.5	---
WJ-43	06/22/89	<0.5	<0.5	---	---	---	---	---	---	---	---
WJ-43	09/21/89	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---

Table 2
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Scotts Valley, California
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Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
WJ-43	12/13/89	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-43	03/20/90	---	<0.5	---	<0.5	<0.5	---	---	---	<0.5	---
WJ-43	12/11/90	---	<0.5	---	<0.5	<0.5	<0.5	---	<0.5	<0.5	---
WJ-43	03/12/91	---	<0.5	---	---	---	---	---	---	---	---
WJ-43	06/25/91	---	<0.5	---	<0.5	<1.0	<0.5	---	<0.5	<0.5	---
WJ-43	12/09/91	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-43	06/16/92	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-43	12/08/92	---	<0.5	ND	ND	<0.5	ND	---	ND	ND	---
WJ-43	06/15/93	---	<0.5	ND	---	<0.5	ND	ND	ND	0.59	---
WJ-43	06/14/94	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-43	06/06/95	---	<0.5	ND	ND	<0.5	ND	ND	ND	ND	---
WJ-43	06/10/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-43	06/24/97	---	<0.5	---	---	<0.5	---	---	---	---	---
WJ-43	06/23/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-43	06/02/99	2.70	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
WJ-43	06/19/00	5.90	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-43	06/07/01	8.00	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-43	05/09/02	4.90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-43	06/26/02	9.80	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	01/31/03	6.00	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	05/13/03	5.90	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-43	05/13/03	5.80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-43	08/14/03	5.40	<0.5	<0.10	<0.5	<0.5	<0.5	<0.5	<0.4	<0.5	---
WJ-43	11/19/03	5.30	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	11/19/03	4.70	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	12/30/03	4.60	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	12/30/03	5.90	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	01/28/04	6.10	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	01/28/04	7.10	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	01/28/04	7.00	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	01/28/04	5.20	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	02/25/04	8.80	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	02/25/04	7.80	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	02/25/04	6.10	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	03/25/04	8.90	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	03/25/04	8.90	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	03/25/04	9.20	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	05/11/04	10.00	<0.50	<0.10	<0.20	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	08/03/04	13.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-43	11/02/04	8.60	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-43	02/10/05	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-43	05/03/05	25	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	08/05/05	29	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	11/18/05	23	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-43	02/06/06	21	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-43	04/24/06	34	0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-43	04/24/06	33	0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-43	08/03/06	46	0.6	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-43	11/03/06	31	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
WJ-43	02/02/07	25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
WJ-43	05/01/07	28	0.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-43/Dup	05/01/07	31	0.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
WJ-43	08/15/07	45	1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50
WJ-43/Dup	08/15/07	44	0.8	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50
WJ-43	11/13/07	24	<0.5	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	---
WJ-43	02/12/08	20	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
WJ-43	05/13/08	30	0.6	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
WJ-43	08/05/08	35	0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
WJ-43	12/19/08	17	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-43	02/20/09	21	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-43	03/20/09	12	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-43	04/21/09	11	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---

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Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
WJ-43	05/20/09	12	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-43	08/06/09	13	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-43	10/20/09	18	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	02/23/10	20	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	---
WJ-43	05/12/10	30	0.6	<0.5	<0.5	<0.5	<1.1	<2.0	<0.5	<0.5	---
WJ-43	08/19/10	36	0.5	<0.5	<0.5	<0.5	<1.1	<2.0	<0.5	<0.5	---
WJ-43	11/17/10	34	0.6	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	02/09/11	31	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	04/13/11	27	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	07/19/11	30	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	10/18/11	23	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	02/09/12	52	0.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	05/31/12	36	0.9	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	08/15/12	31	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	10/23/12	24	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	01/09/13	27	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	03/11/13	34	0.8	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
WJ-43	07/10/13	31	0.7	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
WJ-43	10/16/13	27	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	01/23/14	20	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	03/13/14	17	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
WJ-43	**07/03/14**	**17**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
WJ-48	06/14/96	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	3.7	<0.5	<0.5	---
WJ-48	06/02/99	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
WJ-48	12/18/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-48	06/15/00	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	3.7	<0.5	<0.5	---
WJ-48	12/14/00	<0.500	0.724	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
WJ-48	06/07/01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-48	01/31/02	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-48	06/27/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	1.5	<0.40	<0.50	---
WJ-48	06/27/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	1.3	<0.40	<0.50	---
WJ-48	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.78	<0.50	<0.50	<0.50
WJ-48	02/23/10	<0.50	<0.50	<0.90	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
WJ-49	06/18/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-49	06/02/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
WJ-49	06/19/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
WJ-49	06/08/01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
WJ-49	07/01/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
WJ-49	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SUPPLY WELL	03/30/89	<0.03	0.61	---	---	---	---	---	---	---	---
SUPPLY WELL	06/28/89	<0.5	29	---	---	---	---	---	---	---	---
SUPPLY WELL	09/20/89	<0.5	<0.5	---	---	---	---	---	---	---	---
SUPPLY WELL	02/06/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
SUPPLY WELL	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
SUPPLY WELL	02/23/10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
AP-3N	06/12/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
AP-3N	06/26/97	---	<0.5	---	---	---	---	---	---	---	---
AP-3N	03/12/98	<0.5	<0.5	---	---	---	---	---	---	---	---
AP-3N	06/22/98	<0.5	<0.5	---	---	---	---	---	---	---	---
AP-3N	03/17/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
AP-3N	06/01/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
AP-3N	10/15/99	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
AP-3N	12/18/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
AP-3N	03/08/00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
AP-3N	06/13/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
AP-3N	09/28/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
AP-3N	12/15/00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
AP-3N	04/30/01	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
AP-3N	06/11/01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
AP-3N	09/20/01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---

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Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
AP-3N	01/31/02	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
AP-3N	05/09/02	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
AP-3N	07/02/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
AP-3N	09/26/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
AP-3N	04/24/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
AP-3N	02/02/07	<0.50	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
BC-6	05/11/04	<0.50	<0.50	<0.10	<0.20	<0.50	<0.50	<0.50	<0.40	<0.50	---
BC-6	08/19/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
BC-6	11/02/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
BC-6	02/10/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
BC-6	05/03/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
BC-6	08/05/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
BC-6	11/18/05	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BC-6	02/06/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BC-6	04/24/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BC-6	08/03/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BC-6	11/03/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BC-6	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
BC-7	05/11/04	<0.50	<0.50	<0.10	<0.20	<0.50	<0.50	<0.50	<0.40	<0.50	---
BC-7	08/19/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
BC-7	11/02/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
BC-7	02/10/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
BC-7	05/03/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
BC-7	08/05/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
BC-7	11/18/05	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BC-7	02/06/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BC-7	04/24/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BC-7	08/03/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BC-7	11/03/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BC-7	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
BCDP	05/11/04	<0.50	<0.50	<0.10	<0.20	<0.50	<0.50	<0.50	<0.40	<0.50	---
BCDP	08/19/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
BCDP	11/02/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
BCDP	02/10/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
BCDP	05/03/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
BCDP	08/05/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
BCDP	11/18/05	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BCDP	02/06/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BCDP	04/24/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BCDP	08/03/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BCDP	11/03/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
BCDP	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
OB-1	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
OB-1	02/23/10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
OB-2	02/23/10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
OB-3	06/15/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
OB-3	06/02/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
OB-3	06/16/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
OB-3	06/08/01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	---
OB-3	07/03/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
OB-3	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
RA-1	12/19/08	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-1	02/20/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-1	03/20/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-1	04/21/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-1	05/20/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-2	12/19/08[1]	---	---	---	---	---	---	---	---	---	---
RA-2	02/20/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	2.9	<0.50	<0.50	---
RA-2	03/20/09	<0.50	4.2	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---

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Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
RA-2	04/21/09	0.5	4.4	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-2	05/20/09	0.5	<0.50	<0.50	<0.50	<0.50	<1.0	4.7	<0.50	<0.50	---
RA-3	12/19/08	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-3	02/20/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-3	03/20/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-3	04/21/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-3	05/20/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-4	12/19/08	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-4	02/20/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-4	03/20/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-4	04/21/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
RA-4	05/20/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
SVWD-9	05/13/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	---
SVWD-9M	05/13/08	6.3	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	---
Field Blank	05/09/02	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
Field Blank	09/24/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Field Blank	11/19/03	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Field Blank	12/30/03	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Field Blank	01/28/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Field Blank	02/25/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Field Blank	03/25/04	<0.50	<0.50	<0.10	<0.50	<0.50	0.52	<0.50	<0.40	<0.50	---
Field Blank	05/11/04	<0.50	<0.50	<0.10	<0.20	<0.50	0.59	<0.50	<0.40	<0.50	---
Field Blank	08/05/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
Field Blank	11/13/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	---
Trip Blank	06/11/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
Trip Blank	09/28/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
Trip Blank	12/14/00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	---
Trip Blank	03/27/02	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
Trip Blank	07/03/02	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Trip Blank	11/19/03	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Trip Blank	12/30/03	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Trip Blank	01/28/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Trip Blank	02/25/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Trip Blank	03/25/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Trip Blank	05/11/04	<0.50	<0.50	<0.10	<0.20	<0.50	0.57	<0.50	<0.40	<0.50	---
Trip Blank	08/03/04	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
Trip Blank	08/19/04	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	---
Trip Blank	02/10/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
Trip Blank	05/03/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
Trip Blank	08/05/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---
Trip Blank	11/18/05	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
Trip Blank	02/06/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
Trip Blank	04/24/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
Trip Blank	08/03/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
Trip Blank	11/03/06	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	---
Trip Blank	02/02/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
Trip Blank	05/01/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---
Trip Blank	08/15/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50
Trip Blank	11/13/07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	---
Trip Blank	02/12/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	---
Trip Blank	05/13/08	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	---
Trip Blank	08/06/09	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
Trip Blank	10/20/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	02/23/10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
Trip Blank	08/19/10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
Trip Blank	11/17/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	02/09/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	04/13/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	07/19/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5

Table 2

Results of Laboratory Analyses for Selected Purgeable Halocarbons

Watkins-Johnson Superfund Site

Scotts Valley, California

USEPA Third Quarter 2014 Monitoring Report

Regional Monitoring Well	Sample Date	PCE µg/L	TCE µg/L	1,1-DCE µg/L	1,1-DCA µg/L	cis-1,2-DCE µg/L	CFM µg/L	Freon 113 µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	MTBE µg/L
Treatment Standard		**5**	**5**	**6**	**5**	**6**	**100**	**---**	**200**	**32**	**---**
Trip Blank	10/18/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	02/09/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	08/15/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	10/23/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	01/09/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	03/11/13	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	<0.5	<0.5	<0.5
Trip Blank	07/10/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5
Trip Blank	10/10/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	10/16/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	01/23/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	03/13/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trip Blank	**07/01/14**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**<0.5**	**<0.5**	**<0.5**
PDB Blank	08/19/10	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<2.0	<0.50	<0.50	---
PDB Blank	11/17/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5

Notes:

1 RA-2 sample collected from TS-IN of the GWETS for the December 19, 2008 event. Refer to Table 3 for GWETS analytical results.

2 WJ-37 sample from October 20, 2009 was a pre-purging grab sample as the well contained only 5 to 6 inches of water and did not recharge following purging.

3 Wescosa Well is located located on an adjacent property and owned by a separate party. The sample is collected from a spigot.

4 Wells are sampled using PDB bags. MTBE results from KV-2 at 190 and 200 feet, KV-3 at 182 feet, KV-6 at 133 feet, KV-7 at 125 and 136 feet, KV-8 at 185 and 195 feet, KV-9 at 148 and EX-1 at 145 feet bgs are from PDBs. All other MTBE results are from grab MTBE groundwater samples collected using a bailer after PDB samples are collected.

5 Selected analytes presented on table are site specific COCs. A full list of VOC analytes and sample results are presented in the laboratory reports.

Analyses performed by Sequoia Analytical, Morgan Hill, California prior to 5-3-05.
Beginning 5-3-05, analyses performed by Curtis & Tompkins Ltd., Berkeley, California.

February 2, 2007 analyses performed by BC Laboratories, Inc. in Bakersfield, California.

Selected purgeable halocarbons analyzed by United States Environmental Protection Agency (USEPA) Method 8260B.

PCE	tetrachloroethene
TCE	trichloroethene
1,1-DCE	1,1-dichloroethene
1,1-DCA	1,1-dichloroethane
cis-1,2-DCE	cis-1,2-dichloroethene
CFM	chloroform
1,1,1-TCA	1,1,1-trichloroethane
1,1,2-TCA	1,1,2-trichloroethane
MTBE	methyl tertiary-butyl ether
µg/L	micrograms per liter
NA	not analyzed
PDB	passive diffusion bag
VOCs	Volatile Organic Compounds
COCs	Chemicals of Concern
<	Symbol indicates not detected at or above laboratory detection limit as noted.
---	data not available
J	Laboratory qualifier = estimated value.
bgs	below ground surface

Dup	Duplicate sample.
a	sample collected from PDB set at 198 feet btoc
b	sample collected from PDB set at 183.5 feet btoc
c	sample collected from PDB set at 191 feet btoc
d	sample collected from PDB set at 166 feet btoc
e	sample collected from PDB set at 130 feet btoc
f	sample collected from PDB set at 148 feet btoc

Table 3
Results of Laboratory Analyses for Volatile Organic Compounds in the Treatment System

Watkins-Johnson Superfund Site

Scotts Valley, California

USEPA Third Quarter 2014 Monitoring Report

Sample Identification	Sampling Location	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	Vinyl Cloride	Freon 113 (µg/L)	1,1,1-TCA (µg/L)	Chromium (µg/L)	Hexavalent Chromium (µg/L)	Nickel (µg/L)
Permit Limits for Effluent Water			**0.8**	**2.7**	**6**	**10**	**0.5**		**200**	**50**	**10**	**52**
TS-IN	**Treatment System Influent Water**	06/10/14	**4.1**	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	3.6	18
		06/23/14	**7.7**	<0.50	<0.50	--	<0.50	--	--	--	--	--
		07/02/14	**2.8**	<0.50	<0.50	--	<0.50	--	--	--	--	--
		07/21/14	4.4	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	5.2	4.3	6.6
		08/21/14	**4.1**	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	5.6	4.6 b	<5.0
TS-MID	**Water Between LPGAC Vessels**	06/10/14	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	5.5	5.9	<5.0
		06/23/14	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	--
		07/02/14	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	--
		07/21/14	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	7.0	5.2	<5.0
		08/21/14	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	6.6	5.2 b	<5.0
TS-OUT	**Treatment System Effluent Water**	06/10/14	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	1.20	<5.0
		06/23/14	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	--
		07/02/14	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--	--
		07/21/14	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	<0.50	<5.0
		08/21/14	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<5.0	0.52 b	<5.0

Notes:

Detected values shown in bold.
Analysis performed using United States Environmental Protection Agency (USEPA) Method 8260B.
Analyses performed by Curtis & Tompkins Ltd., Berkeley, California.
--- Not Analyzed.

TS-IN	Treatment System Influent Water		
TS-MID	Water between LPGAC vessels	LPGAC	Liquid phase granular activated carbon
TS-OUT	Treatment System Effluent Water	PCE	Tetrachloroethene
1,1,1-TCA	1,1,1-Trichloroethane	TCE	Trichloroethene
MTBE	methyl tertiary butyl ether	µg/L	Micrograms per liter
cis-1,2-DCE	cis-1,2-Dichloroethene	<	Symbol indicates not detected at or above the laboratory reporting limit as noted.

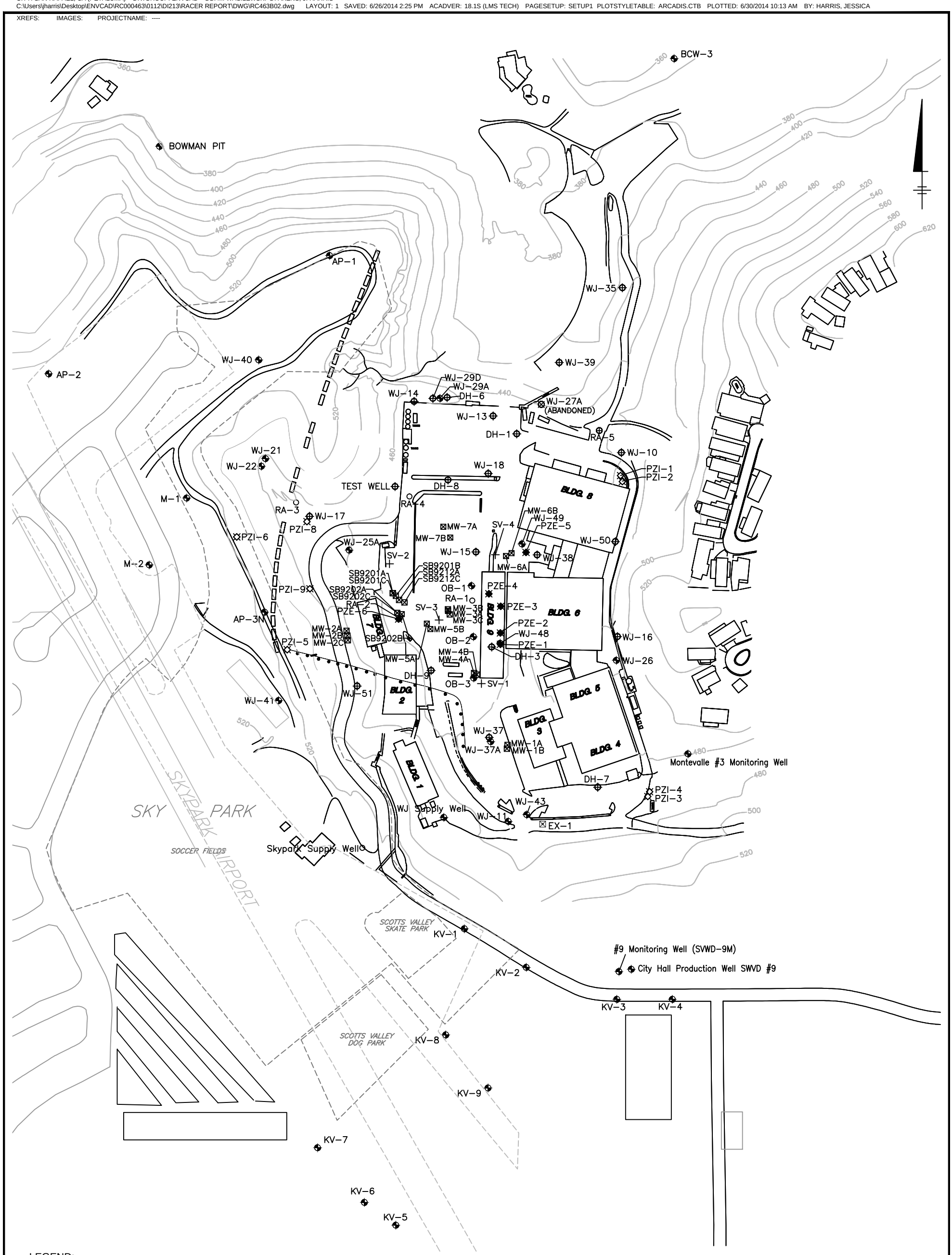
Table 4
Summary of Groundwater Extraction, Usage, and Discharge to Bean Creek
Watkins-Johnson Superfund Site
Scotts Valley, California
USEPA Third Quarter 2014 Monitoring Report

Month	Notes	Groundwater Extracted (gallons)	Treated Water Reused by Facility[1] (gallons)	Treated Water Discharged to Bean Creek (gallons)	Perched Zone Infiltration[2]
Third Quarter 2014					
Jun-14	3	2,520,205	0	2,520,205	0
Jul-14	3	1,042,512	0	1,042,512	0
Aug-14	3	788,618	0	788,618	0
3rd Quarter 2014 Total		**4,351,335**	**0**	**4,351,335**	**0**

Notes:
1 Following December 2008 system shutdown, facility no longer reuses treated water.
2 The groundwater infiltration system has been shut off since May 2000.
3 Total monthly volumes were estimated based on average daily flow rates between site visits on June 10, July 1, and August 21, 2014.

ARCADIS

Figures



LEGEND:

WJ-41	WELL SCREENED IN THE REGIONAL ZONE OF THE SANTA MARGARITA FORMATION
RA-4	REMEDIAL ACTION WELL SCREENED IN THE REGIONAL ZONE OF THE SANTA MARGARITA FORMATION
DH-1	WELL SCREENED IN THE PERCHED ZONE OF THE SANTA MARGARITA FORMATION
RA-5	REMEDIAL ACTION WELL SCREENED IN THE PERCHED ZONE OF THE SANTA MARGARITA FORMATION
PZE-4	PERCHED ZONE EXTRACTION WELL SCREENED IN THE SANTA MARGARITA AQUIFER
PZI-4	PERCHED ZONE INFILTRATION WELL
SV-1	SOIL VAPOR EXTRACTION WELL
MW-1B	SOIL VAPOR MONITORING WELL SCREENED IN THE PERCHED ZONE
EX-1	ONSITE EXTRACTION WELL
WJ-27A	ABANDONED WELL
620	TOPOGRAPHIC ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL

FORMER WATKINS-JOHNSON COMPANY SITE
440 KINGS VILLAGE ROAD
SCOTTS VALLEY, CALIFORNIA

REGIONAL AND PERCHED ZONE GROUNDWATER WELLS AND SOIL VAPOR WELLS

ARCADIS

FIGURE
1

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENVCAD DB: M. WASILEWSKI D. AKENS, J. HARRIS
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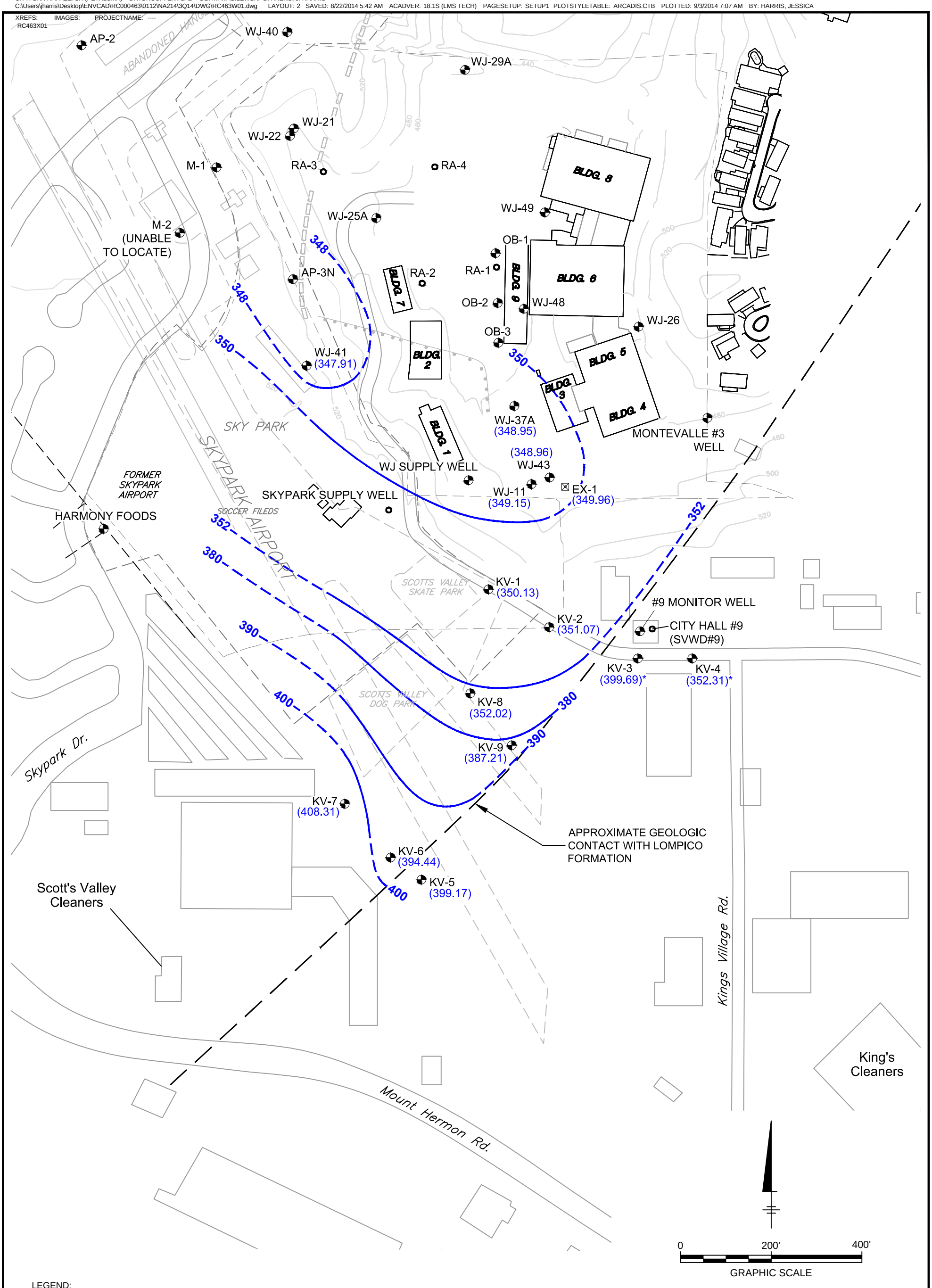
RC463X01



LEGEND:

KV-1/WJ-43	REGIONAL ZONE MONITORING WELL
EX-1	ONSITE EXTRACTION WELL
RA-2	EXTRACTION WELL
	PARCEL BOUNDARY
(408.31)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (7/1/2014)
	GROUNDWATER ELEVATION CONTOUR
	ESTIMATED WATER LEVEL BASED ON 2012 ASSESSMENT
*	NOT USED IN CONTOURING

FORMER WATKINS-JOHNSON COMPANY SITE
440 KINGS VILLAGE ROAD
SCOTTS VALLEY, CALIFORNIA
USEPA THIRD QUARTER 2014 MONITORING REPORT

GROUNDWATER ELEVATION CONTOUR MAP - JULY 2014 SANTA MARGARITA FORMATION

ARCADIS

FIGURE
2

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENVCAD DB: M. WASILEWSKI D. AKENS, J. HARRIS
C:\Users\jharris\Desktop\ENVCAD\RC000463\0112\NA214\3Q14\DWG\RC463C01.dwg LAYOUT: 3 SAVED: 8/21/2014 10:55 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 9/3/2014 7:09 AM BY: HARRIS, JESSICA
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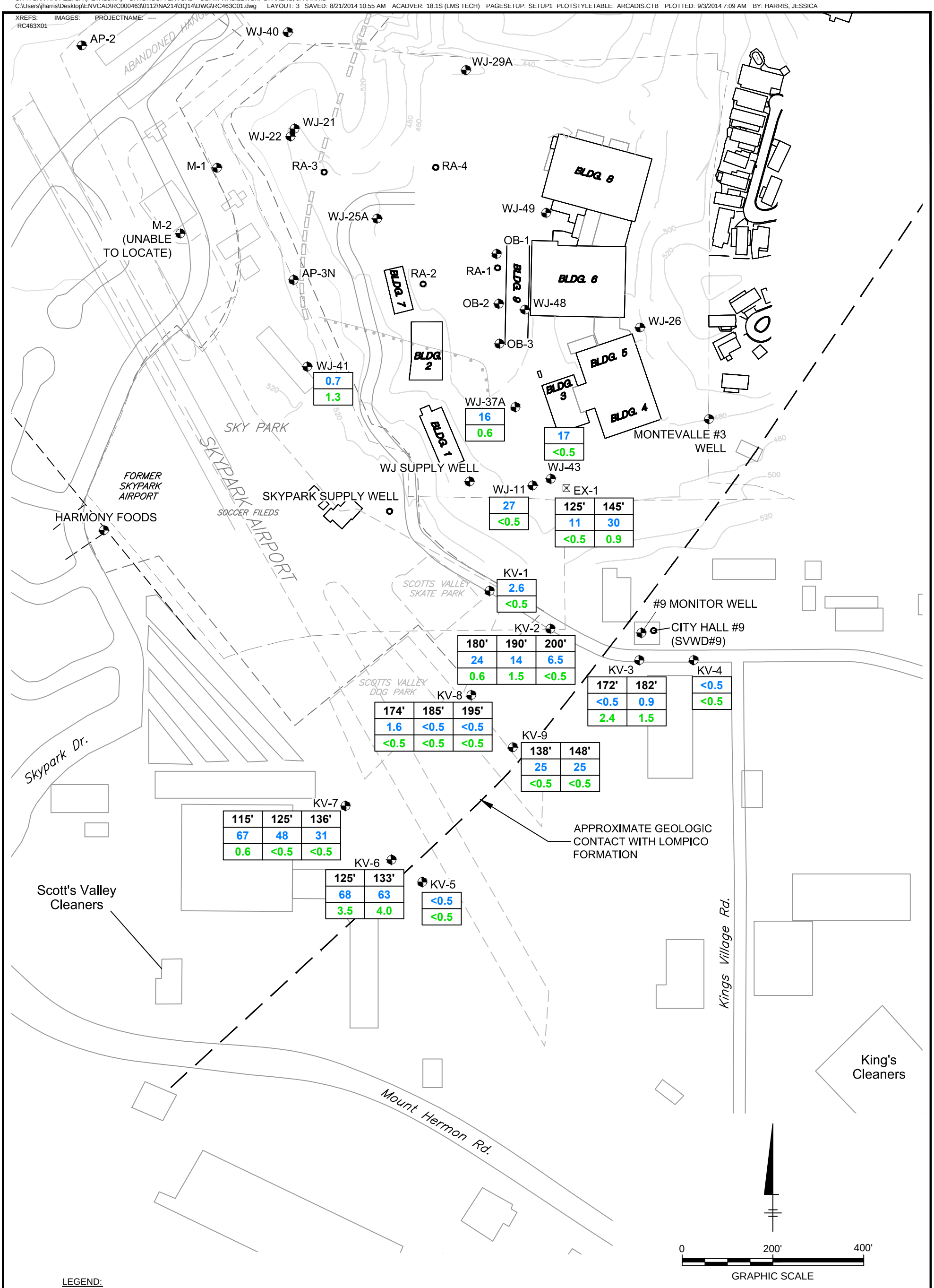
RC463X01



LEGEND:

KV-1/WJ-43	REGIONAL ZONE MONITORING WELL
EX-1	ONSITE EXTRACTION WELL
RA-2	EXTRACTION WELL
— — —	PARCEL BOUNDARY

125'	133'	DEPTH OF PDB PLACEMENT (FT BGS); (WHERE APPLICABLE)
68	63	PCE CONCENTRATION (µg/L)
3.5	4.0	TCE CONCENTRATION (µg/L)

PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
µg/L	MICROGRAMS PER LITER
PDB	PASSIVE DIFFUSION BAG
FT BGS	FEET BELOW GROUND SURFACE
<	NOT DETECTED ABOVE LABORATORY REPORTING LIMIT SHOWN
NS	NOT SAMPLED

FORMER WATKINS-JOHNSON COMPANY SITE
440 KINGS VILLAGE ROAD
SCOTTS VALLEY, CALIFORNIA
USEPA THIRD QUARTER 2014 MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS PCE AND TCE (JULY 2014)

ARCADIS

FIGURE
3

Appendix A

Data Validation Report

Site: Watkins-Johnson Superfund Site
440 Kings Village Road
Analyzing Lab: Curtis & Tompkins, Ltd.
Reviewer: Dennis Dyke
Date: August 21, 2014
Data Validation Report #: 22196

Sample Delivery Groups (SDGs): 258680, 258705, 258709, 258720, and 258723

42 Water Samples
Volatile Organic Compounds (VOCs) by EPA Method 8260B

QA/QC Data Review Summary

I. Introduction

The following water samples were collected and submitted to Curtis & Tompkins, Ltd. Analytical Laboratories in Berkeley, California (C&T) for analysis of the analytes listed in the header using United States Environmental Protection Agency (USEPA) analytical methods.

SDG	Sample ID	Lab ID	Sample Date	Duplicate Location
258680	KV-7@115	258680-001	7/1/2014	
	KV-7@125	258680-002	7/1/2014	
	KV-7@136	258680-003	7/1/2014	
258705	WESCOSA WELL	258705-001	7/1/2014	
	TB070114	258705-002	7/1/2014	
	KV-1	258705-003	7/1/2014	
	KV-2@180	258705-004	7/1/2014	
	KV-2@190	258705-005	7/1/2014	
	KV-2@200	258705-006	7/1/2014	
	DUP2	258705-007	7/1/2014	KV-2@180
	KV-3@172	258705-008	7/1/2014	
	KV-3@182	258705-009	7/1/2014	
	KV-4	258705-010	7/1/2014	
	WJ-41	258705-011	7/1/2014	
	DUP1	258705-012	7/1/2014	WJ-41
	KV-9@138	258705-013	7/1/2014	
	KV-9@148	258705-014	7/1/2014	
	KV-8@174	258705-015	7/1/2014	
	KV-8@185	258705-016	7/1/2014	
	KV-8@195	258705-017	7/1/2014	
	KV-5	258705-018	7/1/2014	
	KV-6@125	258705-019	7/1/2014	
	KV-6@133	258705-020	7/1/2014	
258709	WESCOSA WELL (GRAB)	258709-001	7/1/2014	
	KV-1 (GRAB)	258709-002	7/1/2014	
	KV-2 (GRAB)	258709-003	7/1/2014	
	KV-3 (GRAB)	258709-004	7/1/2014	
	KV-4 (GRAB)	258709-005	7/1/2014	
	WJ-41 (GRAB)	258709-006	7/1/2014	
	KV-9 (GRAB)	258709-007	7/1/2014	
	KV-8 (GRAB)	258709-008	7/1/2014	
	KV-5 (GRAB)	258709-009	7/1/2014	
	KV-6 (GRAB)	258709-010	7/1/2014	

SDG	Sample ID	Lab ID	Sample Date	Duplicate Location
258709	KV-7 (GRAB)	258709-011	7/1/2014	
258720	WJ-11 (GRAB)	258720-001	7/3/2014	
	EX-01 (GRAB)	258720-002	7/3/2014	
	WJ-43 (GRAB)	258720-003	7/3/2014	
	WJ-37A (GRAB)	258720-004	7/3/2014	
258723	TB070314	258723-001	7/3/2014	
	WJ-11	258723-002	7/3/2014	
	EX-01@125	258723-003	7/3/2014	
	EX-01@145	258723-004	7/3/2014	
	WJ-43	258723-005	7/3/2014	
	WJ-37A	258723-006	7/3/2014	

This document was prepared in accordance with USEPA documents *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (1999) and the *Quality Assurance Project Plan (QAPP) for Remedial Design/Remedial Action, Watkins-Johnson Company, Scotts Valley, California,* April 12, 1993.

II. Validity

A. Results are valid for the project purposes, subject to the comments in Section III.

III. Comments

A. The EPA-recommended holding time was met for all sample analyses.

B. No dilutions were required; the reporting limits are adequate for assessments.

C. Sample location EX-01@125 exhibited a recovery greater than the upper control limit for the surrogate bromofluorobenzene. The result for the detected compound (tetrachloroethene) in EX-01@125 was therefore qualified as estimated. All other surrogate recoveries were within the QC acceptance limits.

D. All laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses met the QC acceptance criteria; the MS/MSD analysis was not performed on a sample location from within these SDGs.

E. Target analytes were not detected in any of the associated laboratory method blanks or trip blanks.

F. The field duplicate samples exhibited relative percent differences (RPDs) within the EPA Region-Nine control limit of 25%.

G. Integration sheets, chromatograms, and reference scans are produced to positively identify compounds reported above quantitation limits for samples designated as laboratory quality control samples. These data were not reviewed, but are retained by the laboratories.

H. The quality control criteria were met as specified above and all data are considered usable as qualified. Based upon the data review, all sample results are considered valid and usable without qualification. For this batch of samples analyses, the completeness is greater than 99.9%.

Appendix B

Groundwater Sampling Field Forms

Site Visit Report

ARCADIS Project Number: **RC000463.0112.NA214**	Dates of Site Visit: 07 /01/ **/2014**
ARCADIS Project Name: **SVG**	Location of Project: **Scotts Valley**
ARCADIS Personnel Present: **H. Tauscher**	Other Persons Present: Statewide Traffic Safety
Purpose of Site Visit: **June/July Sampling Event**	

Date & Time:	Activities:
07/01/14 0715	Depart for site
0815	Arrive @ site, calibrate equipment, sample Wescosa well
0845	Arrive @ meeting location w/ Statewide, set-up truck for sampling
0915	Statewide on site hold tailgate, set up traffic control. Sample wells KV-1 - through KV-4.
1155	Statewide departs site. Continue w/sampling.
1500	Realize I do not have enough vials to complete the sampling. Call K. Wynne and discuss this issue. I will come back out on 07/03/14 to finish sampling, wells left to sample are WJ-37A, WJ-11, WJ-43, and EX-01.

Rental Equipment Used

Qty	Rental ID	Description	Rental Period	Return Conf. #

Weather:	Signature & Date:
	Eqpt Billing Log to Accounting Date: Initials:

RECORD OF WATER LEVEL MEASUREMENTS

Date: ~~06~~ 07 01 -14 — This page ~~and 07/03/14~~ HB

Tools used (circle one): Interface Probe DTW Meter	Project Name: **SVG**	Job No.: **RC000463.0112.NA214**
	Location: **Scotts Valley, CA**	ARCADIS Personnel: **H. Tauscher**

Well Number	Time Measured	Depth to Product (DTP) (feet)	Depth to Water (DTW) (feet)	Depth to Bottom (DTB) (feet)	Product Thickness = DTW - DTP (feet)	Remarks:
KV-1	0958	N/A	176.38	199.35	N/A	
KV-2	1025		176.63	218.30		
KV-3	1104		128.50	198.93		
KV-4	1129		175.38	203.75		
WJ-41	1219		175.74	199.11		
KV-9	1317		134.96	169.18		
KV-8	1348		172.27	202.51		
KV-5	1423		118.32	138.00		
KV-6	1449		122.41	143.82		
KV-7	1535		109.53	142.92		

ARCADIS

RECORD OF WATER LEVEL MEASUREMENTS

Date: ~~06-~~ 07-03-14

Tools used (circle one): Interface Probe DTW Meter

Project Name: **SVG**

Job No.: **RC000463.0112.NA214**

Location: **Scotts Valley, CA**

ARCADIS Personnel: **H. Tauscher**

Well Number	Time Measured	Depth to Product (DTP) (feet)	Depth to Water (DTW) (feet)	Depth to Bottom (DTB) (feet)	Product Thickness = DTW - DTP (feet)	Remarks:
WJ-11	0833	N/A	121.07	129.79	N/A	
EX-01	0919		121.68	170.50		
WJ-43	0951		121.23	167.88		
WJ-37A	1007		116.33	168.29		

ARCADIS

Water Sampling Log

Project Number **RC000463.0112.NA214** Date ~~06~~ 07/-14

Project Name **SVG** Well Number **Wescosa**

Weather overcast, cool, calm Sampling Time: Begin _____ End _____

Samplers Name **H. Tauscher**

Evacuation Data

Measuring Point (MP) TOC

Total Sounded Depth of Well Below MP N/A

Depth to Water Below MP N/A

Water Column in Well _____

Gallons per Foot _____

Gallons in Well _____

Diameter of Casing N/A

Calculated Gallons Purged Prior to Sampling 5

Sampling Pump Intake Setting (feet below measuring point) N/A

Purge Method:

PVC Bailer ☐ Diaphragm Pump ☐ size _____

Disposable Bailer ☐ Submersible Pump ☐ size _____

Other well spigot

Field Parameters

Start Time 0825

Time	Cumulative Gallons	Temperature °F/°C	Specific Cond. µS/cm	pH	DO	ORP	Other	Color
			x	8.61				
			x					
			x					
			x					
			x					
			x					

Sampling

Sampling Method Spigot

Actual Gallons Purged Prior to Sampling 5

Time 0830 Depth to Water ——— Color clear Other _____

Remarks

Well Casing Volumes (gal/ft)

1 - 1/4" = 0.077 1 - 1/2" = 0.10 2" = 0.16 3" = 0.37 3 1/2 = 0.50 4" = 0.65 6" = 1.46

ARCADIS Geraghty Miller, Inc.

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07-01-14
Project Name:	Scotts Valley	**Well Name:**	KV-1
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	1
Task Manager:	Katie Wynne	**Depth to Water:**	176.38
Sampler(s):	H. Tauscher	**Depth to Bottom:**	199.35
Weather:	clear, calm, 70'S	**pH:**	8.34
Sample Time Interval:		**Depth to Bag:**	180'
Start:	0955		
Finish:	1019	**Actual Depth to Bag (if different)**	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

@ 180 = 1002

Grab = 1013

8260B

MTBE

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07-01-14
Project Name:	Scotts Valley	**Well Name:**	KV-2
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	4
Task Manager:	Katie Wynne	**Depth to Water:**	176.63
Sampler(s):	H. Tauscher	**Depth to Bottom:**	218.30
Weather:	clear, calm, warm	**pH:**	7.83
Sample Time Interval:		**Depth to Bag:**	180', 190', 200'
Start:	1021	**Actual Depth to Bag (if different)**	
Finish:	1057		

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			
PDB 2	See attached table			
PDB 3	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☑ Field Duplicate	DUP 2
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

8260B

MTBE (Grab)

@ 180 = 1030

@ 190 = 1035

@ 200 = 1038

DUP2 @ 180 = 1039

Grab = 1046

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	Sample Date:	~~06~~ 07-01-14
Project Name:	Scotts Valley	Well Name:	KV-3
Sampling Event:	July 2014 Sampling	Number of PDB Stations:	2
Task Manager:	Katie Wynne	Depth to Water:	128.50
Sampler(s):	H. Tauscher	Depth to Bottom:	198.93
Weather:	clear, calm, warm	pH:	7.22
Sample Time Interval: Start:	1101	Depth to Bag:	172', 182'
Finish:	1124	Actual Depth to Bag (if different)	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			
PDB 2	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:	

PDB REPLACEMENT X YES NO

Additional Comments:

@ 172 = 1105

@ 182 = 1108

Grab = 1114

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07-01-14
Project Name:	Scotts Valley	**Well Name:**	KV-4
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	1
Task Manager:	Katie Wynne	**Depth to Water:**	175.38
Sampler(s):	H. Tauscher	**Depth to Bottom:**	203.75
Weather:	Clear, calm, Warm	**pH:**	7.01
Sample Time Interval:		**Depth to Bag:**	185'
Start:	1127		
Finish:	1145	**Actual Depth to Bag (if different)**	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

@ 185 = 1131

Grab = 1138

8260B

MTBE (Grab)

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07 -01-14
Project Name:	Scotts Valley	**Well Name:**	WJ-41
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	1
Task Manager:	Katie Wynne	**Depth to Water:**	175.74
Sampler(s):	H. Tauscher	**Depth to Bottom:**	199.11
Weather:	Clear, windy, warm	**pH:**	8.53
Sample Time Interval:		**Depth to Bag:**	
Start:	1215	**Actual Depth to Bag (if different)**	
Finish:	1300		

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☒ Field Duplicate	DUP1
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

Sample time = 1223

8260B

Dup 1 = 1241

MTBE (DUP)

Grab sample time = 1253

~~DUP1 Grab sample time~~

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07 - 01 -14
Project Name:	Scotts Valley	**Well Name:**	KV-9
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	2
Task Manager:	Katie Wynne	**Depth to Water:**	134.96
Sampler(s):	H. Tauscher	**Depth to Bottom:**	169.18
Weather:	clear, windy, warm	**pH:**	7.88
Sample Time Interval:		**Depth to Bag:**	138', 148'
Start:	1315		
Finish:	1343	**Actual Depth to Bag (if different)**	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			
PDB 2	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

@ 138 = 1320

@ 148 = 1323

Grab = 1330

8260B

MTBE (Grab)

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07-01-14
Project Name:	Scotts Valley	**Well Name:**	KV-8
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	3
Task Manager:	Katie Wynne	**Depth to Water:**	172.27
Sampler(s):	H. Tauscher	**Depth to Bottom:**	202.51
Weather:	clear, windy, warm	**pH:**	7.39
Sample Time Interval:		**Depth to Bag:**	174', 185', 195'
Start:	1346		
Finish:	1416	**Actual Depth to Bag (if different)**	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			
PDB 2	See attached table			
PDB 3	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
□ Field Duplicate	
□ MS/MSD	
□ Field Blank	
□ Equipment Rinse	
□ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

@ 174 = 1350
@ 185 = 1353
@ 195 = 1356
Grab = 1403

8260B
MTBE (Grab)

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	Sample Date:	~~06~~ 07 - 01 -14
Project Name:	Scotts Valley	Well Name:	KV-5
Sampling Event:	July 2014 Sampling	Number of PDB Stations:	1
Task Manager:	Katie Wynne	Depth to Water:	118.32
Sampler(s):	H. Tauscher	Depth to Bottom:	138.00
Weather:	clear, windy, warm	pH:	7.23
Sample Time Interval:		Depth to Bag:	126'
Start:	1421	Actual Depth to Bag (if different)	
Finish:	1443		

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments: @ 126 = 1426

Grab = 1432

8260B

MTBE (Grab)

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07 - 01 -14
Project Name:	Scotts Valley	**Well Name:**	KV-6
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	2
Task Manager:	Katie Wynne	**Depth to Water:**	122.41
Sampler(s):	H. Tauscher	**Depth to Bottom:**	143.82
Weather:	clear, windy, warm	**pH:**	7.52
Sample Time Interval:		**Depth to Bag:**	125', 133'
Start:	1446		
Finish:	1515	**Actual Depth to Bag (if different)**	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			
PDB 2	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

@ 125 = 1452
@ 133 = 1456
Grab = 1503

8260B
MTBE (Grab)

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07-01-14
Project Name:	Scotts Valley	**Well Name:**	KV-7
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	3
Task Manager:	Katie Wynne	**Depth to Water:**	109.53
Sampler(s):	H. Tauscher	**Depth to Bottom:**	142.92
Weather:	clear, ~~calm~~ windy, warm	**pH:**	7.47
Sample Time Interval: Start: 1530		**Depth to Bag:**	115', 125', 136'
Finish: 1607		**Actual Depth to Bag (if different)**	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			
PDB 2	See attached table			
PDB 3	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

@115 = ~~XX~~ 1538
@125 = 1541
@136 = 1544
Grab = 1551

8260B
MTBE (Grab)
3 day TAT
separate chain

Site Visit Report

ARCADIS Project Number:	Dates of Site Visit:
RC000463.0112.NA214	07 /03/**2014**
ARCADIS Project Name:	Location of Project:
SVG	**Scotts Valley**
ARCADIS Personnel Present:	Other Persons Present:
H. Tauscher	

Purpose of Site Visit:

June/July Sampling Event

Date & Time:	Activities:
07/03/14 @ 0715	Depart warehouse for site
0815	Arrive on site, calibrate equipment, set up truck for sampling.
	Sample 4 wells from July event.
1100	Depart site for office.
1200	Arrive @ office - wait for courier
1423	Sign over COC's & samples to courier.

Rental Equipment Used

Qty	Rental ID	Description	Rental Period	Return Conf. #

Weather:	Signature & Date:
	Eqpt Billing Log to Accounting Date: Initials:

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07-03-14
Project Name:	Scotts Valley	**Well Name:**	WJ-11
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	1
Task Manager:	Katie Wynne	**Depth to Water:**	121.07
Sampler(s):	H. Tauscher	**Depth to Bottom:**	129.79
Weather:	clear, calm, cool	**pH:**	7.74
Sample Time Interval:		**Depth to Bag:**	
Start:	0830		
Finish:	0852	**Actual Depth to Bag (if different)**	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

Sample time = 0835

Grab sample time = 0844

8260B

MTBE (Grab)

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07-03-14
Project Name:	Scotts Valley	**Well Name:**	EX-1
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	2
Task Manager:	Katie Wynne	**Depth to Water:**	121.68
Sampler(s):	H. Tauscher	**Depth to Bottom:**	170.50
Weather:	clear, calm, cool	**pH:**	7.27
Sample Time Interval: Start: 0900		**Depth to Bag:**	125', 145'
Finish: 0945		**Actual Depth to Bag (if different)**	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			
PDB 2	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

@ 125 = 0921
@ 145 = 0925
Grab = 0931

8260B
MTBE (Grab)

very hard to remove lid

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07-03-14
Project Name:	Scotts Valley	**Well Name:**	WJ-43
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	1
Task Manager:	Katie Wynne	**Depth to Water:**	121.23
Sampler(s):	H. Tauscher	**Depth to Bottom:**	167.88
Weather:	clear, calm, warm	**pH:**	~~8~~ 7.12
Sample Time Interval: Start: 0949		**Depth to Bag:**	
Finish: 1003		**Actual Depth to Bag (if different)**	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

Sample time = 0953

Grab sample time = 0957

8260B

MTBE (Grab)

ARCADIS Passive Diffusion Bag (PDB) Groundwater Sampling Form

Project Number:	RC000463.0112.NA214	**Sample Date:**	~~06~~ 07-03-14
Project Name:	Scotts Valley	**Well Name:**	WJ-37A
Sampling Event:	July 2014 Sampling	**Number of PDB Stations:**	1
Task Manager:	Katie Wynne	**Depth to Water:**	116.33
Sampler(s):	H. Tauscher	**Depth to Bottom:**	168.29
Weather:	clear, calm, warm	**pH:**	7.35
Sample Time Interval: Start:	1005	**Depth to Bag:**	
Finish:	1030	**Actual Depth to Bag (if different)**	

PDB SAMPLES

Station	Volume	Preservative	Analysis	Comments
PDB 1	See attached table			

QUALITY CONTROL SAMPLES

Type	Comments
☐ Field Duplicate	
☐ MS/MSD	
☐ Field Blank	
☐ Equipment Rinse	
☐ Other:_____	

PDB REPLACEMENT | X YES | NO

Additional Comments:

Sample time = 1009

Grab sample time = 1013

8260B

MTBE (Grab)

Appendix C

Laboratory Analytical Results

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 258680
ANALYTICAL REPORT

Arcadis	Project : RC000463
2000 Powell St	Location : SVG-AVIZA Scotts Valley, CA
Emeryville, CA 94608	Level : II

Sample ID	Lab ID
KV-7@115	258680-001
KV-7@125	258680-002
KV-7@136	258680-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 07/08/2014

Will S Rice
Project Manager
will.rice@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**258680**
Client:	**Arcadis**
Project:	**RC000463**
Location:	**SVG-AVIZA Scotts Valley, CA**
Request Date:	**07/02/14**
Samples Received:	**07/02/14**

This data package contains sample and QC results for three water samples, requested for the above referenced project on 07/02/14. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

258680

ARCADIS
Infrastructure · Water · Environment · Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order #

Send Results to:

Contact & Company Name: K. Wynne / Arcadis
Telephone:
Address:
Fax:
City State Zip
E-mail Address:

Project Name/Location (City, State): SVG - AVIZA Scotts Valley CA
Project #: RC000463.0112.NAZM
Sampler's Printed Name: Heather Tauscher
Sampler's Signature:

Preservative	HCL						
Filtered (✓)							
# of Containers	3						
Container Information	VOAS						

PARAMETER ANALYSIS & METHOD

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other: _____
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: _____
10. Other: _____

Matrix Key:
SO - Soil, SE - Sediment, NL - NAPL/Oil, W - Water, SL - Sludge, SW - Sample Wipe, T - Tissue, A - Air, Other: _____

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	8260B							REMARKS
KV-7 @ 115	07/01/14	1536		X	W	3							
KV-7 @ 125	07/01/14	1541		X	W	3							
KV-7 @ 136	07/01/14	1544		X	W	3							

Special Instructions/Comments:
3 DAY TAT

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Curtis + Tompkins	Cooler Custody Seal (✓)	Printed Name: Heather Tauscher	Printed Name: Shaye Lawton	Printed Name: Shaye Lawton	Printed Name: Mikelle Chong
☐ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature:	Signature:	Signature:	Signature:
Specify Turnaround Requirements: 3 DAY TAT!	Sample Receipt:	Firm: ARCADIS	Firm/Courier: C&T	Firm/Courier: C&T	Firm: C&T
Shipping Tracking #:	Condition/Cooler Temp: _____	Date/Time: 07/02/14 @ 0550	Date/Time: 7/2/14 @ 1456	Date/Time: 7/2/14 @ 1740	Date/Time: 7/2/14 @ 1740

20730826 CofC AR Form 01.12.2007

Distribution: WHITE – Laboratory returns with results YELLOW – Lab copy PINK – Retained by ARCADIS

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 258680 Date Received 7/2/14 Number of coolers 1
Client Arcadis Project QC000463.0112-NA214

Date Opened 7/2/14 By (print) MC (sign) [signature]
Date Logged in [illegible] By (print) [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☒ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.3

☐ Samples received on ice & cold without a temperature blank; temp taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____

Rev 10, 10/11

Curtis & Tompkins, Ltd.

Detections Summary for 258680

Client : Arcadis
Project : RC000463
Location : SVG-AVIZA Scotts Valley, CA

Client Sample ID : KV-7@115 Laboratory Sample ID : 258680-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	28		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	0.6		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	67		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-7@125 Laboratory Sample ID : 258680-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	28		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	48		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-7@136 Laboratory Sample ID : 258680-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	29		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	31		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258680	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-7@115	Batch#:	212909
Lab ID:	258680-001	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/03/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	28	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	0.6	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	67	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258680	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-7@115	Batch#:	212909
Lab ID:	258680-001	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/03/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	77-136
1,2-Dichloroethane-d4	115	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258680	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-7@125	Batch#:	212909
Lab ID:	258680-002	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/03/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	28	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	48	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258680	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-7@125	Batch#:	212909
Lab ID:	258680-002	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/03/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	77-136
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258680	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-7@136	Batch#:	212909
Lab ID:	258680-003	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/03/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	29	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	31	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258680	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-7@136	Batch#:	212909
Lab ID:	258680-003	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/03/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	77-136
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258680	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	212909
Units:	ug/L	Analyzed:	07/03/14
Diln Fac:	1.000		

Type: BS Lab ID: QC747690

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.98	96	65-134
Benzene	12.50	12.77	102	80-124
Trichloroethene	12.50	12.50	100	80-120
Toluene	12.50	12.94	104	80-122
Chlorobenzene	12.50	14.19	114	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	106	77-136
1,2-Dichloroethane-d4	117	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-120

Type: BSD Lab ID: QC747691

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.59	93	65-134	3	20
Benzene	12.50	12.19	98	80-124	5	20
Trichloroethene	12.50	12.04	96	80-120	4	20
Toluene	12.50	12.73	102	80-122	2	20
Chlorobenzene	12.50	13.96	112	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	77-136
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	97	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258680	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC747692	Batch#:	212909
Matrix:	Water	Analyzed:	07/03/14
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258680	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC747692	Batch#:	212909
Matrix:	Water	Analyzed:	07/03/14
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	77-136
1,2-Dichloroethane-d4	113	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258680	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	212909
MSS Lab ID:	258653-005	Sampled:	06/30/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/03/14
Diln Fac:	1.000		

Type: MS Lab ID: QC747726

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1147	12.50	11.65	93	69-129
Benzene	<0.1000	12.50	12.39	99	80-127
Trichloroethene	0.3219	12.50	12.09	94	70-127
Toluene	<0.1000	12.50	12.20	98	80-123
Chlorobenzene	<0.1000	12.50	13.63	109	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	109	77-136
1,2-Dichloroethane-d4	114	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	95	80-120

Type: MSD Lab ID: QC747727

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.64	93	69-129	0	26
Benzene	12.50	12.19	98	80-127	2	23
Trichloroethene	12.50	12.12	94	70-127	0	21
Toluene	12.50	12.28	98	80-123	1	22
Chlorobenzene	12.50	13.62	109	80-120	0	22

Surrogate	%REC	Limits
Dibromofluoromethane	106	77-136
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	96	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 258705
ANALYTICAL REPORT

Arcadis	Project : RC000463
2000 Powell St	Location : SVG Scotts Valley, CA
Emeryville, CA 94608	Level : II

Sample ID	Lab ID
WESCOSA WELL	258705-001
TB070114	258705-002
KV-1	258705-003
KV-2@180	258705-004
KV-2@190	258705-005
KV-2@200	258705-006
DUP2	258705-007
KV-3@172	258705-008
KV-3@182	258705-009
KV-4	258705-010
WJ-41	258705-011
DUP1	258705-012
KV-9@138	258705-013
KV-9@148	258705-014
KV-8@174	258705-015
KV-8@185	258705-016
KV-8@195	258705-017
KV-5	258705-018
KV-6@125	258705-019
KV-6@133	258705-020

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Will Rice Date: 07/10/2014

Will S Rice
Project Manager
will.rice@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**258705**
Client:	**Arcadis**
Project:	**RC000463**
Location:	**SVG Scotts Valley, CA**
Request Date:	**07/02/14**
Samples Received:	**07/02/14**

This data package contains sample and QC results for twenty water samples, requested for the above referenced project on 07/02/14. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

258705

ARCADIS
Infrastructure · Water · Environment · Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Send Results to:

Contact & Company Name: K. Wynne / Arcadis on file
Telephone:
Address:
City State Zip
E-mail Address:

Project Name/Location (City, State): Sig Scotts Valley, CA
Project #: RC000463.0112.NA214
Sampler's Printed Name: Heather Tauscher
Sampler's Signature:

	Preservative	HCL						
	Filtered (✓)							
	# of Containers	3						
	Container Information	VOAs						

PARAMETER ANALYSIS & METHOD

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other: _____
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: _____
10. Other: _____

Matrix Key:
SO - Soil, SE - Sediment, NL - NAPL/Oil, W - Water, SL - Sludge, SW - Sample Wipe, T - Tissue, A - Air, Other: _____

	Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	8260B							REMARKS
1	Wescosa Well	07/01/14	0830		X	GW	3							
2	TB070114	07/01/14	—		X	GW	3							
3	KV-1	07/01/14	1002		X	GW	3							
4	KV-2 @ 180	07/01/14	1030		X	W	3							
5	KV-2 @ 190	07/01/14	1035		X	W	3							
6	KV-2 @ 200	07/01/14	1038		X	W	3							
7	DUP2	07/01/14	1039		X	W	3							
8	KV-3 @ 172	07/01/14	1105		X	W	3							
9	KV-3 @ 182	07/01/14	1108		X	W	3							
10	KV-4	07/01/14	1131		X	W	3							
11	WJ-41	07/01/14	1223		X	W	3							
12	DUP1	07/01/14	~~1223~~	1241	X	W	3							
13	KV-9 @ 138	07/01/14	1320		X	W	3							
14	KV-9 @ 148	07/01/14	1323		X	W	3							

Special Instructions/Comments:

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Curtis & Tompkins	Cooler Custody Seal (✓) ☐ Intact ☐ Not Intact	Printed Name: Heather Tauscher	Printed Name: [illegible]	Printed Name: Shane Lawton	Printed Name: Michelle Chong
☒ Cooler packed with ice (✓)		Signature: [illegible]	Signature: Shane Lawton	Signature: [illegible]	Signature: [illegible]
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm/Courier: C&T	Firm/Courier: C&T	Firm: C&T
Shipping Tracking #:	Condition/Cooler Temp: _____	Date/Time: 07/02/14 @ 0550	Date/Time: 7/2/14 @ 1455	Date/Time: 7/2/14 @ 1740	Date/Time: 7/2/14 @ 1740

20730826 CofC AR Form 01.12.2007

Distribution: WHITE – Laboratory returns with results YELLOW – Lab copy PINK – Retained by ARCADIS

258705

ARCADIS
Infrastructure · Water · Environment · Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Send Results to:

Contact & Company Name: Katie Wynne/Arcadis
Telephone:
Address:
Fax:
City State Zip
E-mail Address:

file

Project Name/Location (City, State): SVG-AVIZA Scotts Valley CA
Project #: RC000463.0112.NA214
Sampler's Printed Name: Heather Tauscher
Sampler's Signature:

	Preservative	HCL						
	Filtered (✓)							
	# of Containers	3						
	Container Information	VOAS						

PARAMETER ANALYSIS & METHOD

	Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	8260B							REMARKS
15	KV-8@ 174	07/01/14	1350		X	W	3							
16	KV-8@ 185	07/01/14	1353		X	W	3							
17	KV-8@ 195	07/01/14	1356		X	W	3							
18	KV-5	07/01/14	1426		X	W	3							
19	KV-6@ 125	07/01/14	1452		X	W	3							
20	KV-6@ 133	07/01/14	1456		X	W	3							

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other: _____
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: _____
10. Other: _____

Matrix Key:
SO - Soil
W - Water
T - Tissue
SE - Sediment
SL - Sludge
A - Air
NL - NAPL/Oil
SW - Sample Wipe
Other: _____

Special Instructions/Comments:

☐ **Special QA/QC Instructions(✓):**

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Curtis & Tompkins	Cooler Custody Seal (✓) ☐ Intact ☐ Not Intact	Printed Name: Heather Tauscher	Printed Name: Shane Lawton	Printed Name: Shane Lawton	Printed Name: Mikelle Chong
☒ Cooler packed with ice (✓)		Signature:	Signature:	Signature:	Signature:
Specify Turnaround Requirements: Standard	Sample Receipt:	Firm: ARCADIS	Firm/Courier: C&T	Firm/Courier: C&T	Firm: C&T
Shipping Tracking #:	Condition/Cooler Temp: _____	Date/Time: 07/02/14@ 0550	Date/Time: 7/2/14@ 1456	Date/Time: 7/2/14@ 1740	Date/Time: 7/2/14 @ 1740

20730826 CofC AR Form 01.12.2007

Distribution: WHITE – Laboratory returns with results YELLOW – Lab copy PINK – Retained by ARCADIS

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 258705 Date Received 07/2/14 Number of coolers 1
Client ARCADIS Project RC000463.0112.NA214

Date Opened 07/2/14 By (print) NV (sign) [illegible]
Date Logged in 7/2/14 By (print) me (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc)_____ YES ~~NO~~
   Shipping info_____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name_____ Date_____
2B. Were custody seals intact upon arrival? _____ YES NO ~~N/A~~
3. Were custody papers dry and intact when received? _____ ~~YES~~ NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ ~~YES~~ NO
5. Is the project identifiable from custody papers? (If so fill out top of form)___ ~~YES~~ NO
6. Indicate the packing in cooler: (if other, describe)_____

   ☒ Bubble Wrap ☒ Foam blocks ☒ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.3°

   ☐ Samples received on ice & cold without a temperature blank; temp taken with IR gun

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer?_____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called?_____ By_____ Date:_____

COMMENTS

_____

Rev 10, 10/11

Curtis & Tompkins, Ltd.

Detections Summary for 258705

Client : Arcadis
Project : RC000463
Location : SVG Scotts Valley, CA

Client Sample ID : WESCOSA WELL Laboratory Sample ID : 258705-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	2.2		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Carbon Disulfide	1.0		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichloroethane	6.4		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : TB070114 Laboratory Sample ID : 258705-002

No Detections

Client Sample ID : KV-1 Laboratory Sample ID : 258705-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	13		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	2.6		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-2@180 Laboratory Sample ID : 258705-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	37		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	0.6		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	24		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-2@190 Laboratory Sample ID : 258705-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	29		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	1.5		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	14		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-2@200 Laboratory Sample ID : 258705-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	13		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	2.3		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	6.5		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Curtis & Tompkins, Ltd.

Client Sample ID : DUP2 Laboratory Sample ID : 258705-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	40		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	0.6		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	23		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-3@172 Laboratory Sample ID : 258705-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	47		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	0.6		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	2.4		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	1.1		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-3@182 Laboratory Sample ID : 258705-009

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	39		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	0.6		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	1.5		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	0.9		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-4 Laboratory Sample ID : 258705-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	18		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : WJ-41 Laboratory Sample ID : 258705-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	31		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	1.3		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	0.7		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : DUP1 Laboratory Sample ID : 258705-012

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	31		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	1.3		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	0.6		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Curtis & Tompkins, Ltd.

Client Sample ID : KV-9@138 Laboratory Sample ID : 258705-013

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	17		10	0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	25		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-9@148 Laboratory Sample ID : 258705-014

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	25		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-8@174 Laboratory Sample ID : 258705-015

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	40		10	1.4	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	1.6		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-8@185 Laboratory Sample ID : 258705-016

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	39		10	1.4	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-8@195 Laboratory Sample ID : 258705-017

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	44		10	1.4	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-5 Laboratory Sample ID : 258705-018

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	39		10	1.4	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : KV-6@125 Laboratory Sample ID : 258705-019

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	43		10	1.4	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	1.3		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	3.5		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	68		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Curtis & Tompkins, Ltd.

Client Sample ID : KV-6@133 Laboratory Sample ID : 258705-020

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	45		10	1.4	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	1.2		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	4.0		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	63		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	WESCOSA WELL	Batch#:	212965
Lab ID:	258705-001	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	2.2	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	1.0	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	6.4	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	WESCOSA WELL	Batch#:	212965
Lab ID:	258705-001	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	77-136
1,2-Dichloroethane-d4	96	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	TB070114	Batch#:	212965
Lab ID:	258705-002	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	TB070114	Batch#:	212965
Lab ID:	258705-002	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	77-136
1,2-Dichloroethane-d4	94	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-1	Batch#:	212965
Lab ID:	258705-003	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	13	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	2.6	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-1	Batch#:	212965
Lab ID:	258705-003	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	77-136
1,2-Dichloroethane-d4	96	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-2@180	Batch#:	212965
Lab ID:	258705-004	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	37	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	0.6	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	24	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-2@180	Batch#:	212965
Lab ID:	258705-004	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	77-136
1,2-Dichloroethane-d4	97	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-2@190	Batch#:	212965
Lab ID:	258705-005	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	29	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	1.5	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	14	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-2@190	Batch#:	212965
Lab ID:	258705-005	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	77-136
1,2-Dichloroethane-d4	96	75-139
Toluene-d8	97	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-2@200	Batch#:	212965
Lab ID:	258705-006	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	13	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	2.3	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	6.5	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-2@200	Batch#:	212965
Lab ID:	258705-006	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	77-136
1,2-Dichloroethane-d4	97	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	DUP2	Batch#:	212965
Lab ID:	258705-007	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	40	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	0.6	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	23	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	DUP2	Batch#:	212965
Lab ID:	258705-007	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	77-136
1,2-Dichloroethane-d4	97	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-3@172	Batch#:	212965
Lab ID:	258705-008	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	47	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	0.6	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	2.4	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-3@172	Batch#:	212965
Lab ID:	258705-008	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	1.1	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	77-136
1,2-Dichloroethane-d4	97	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-3@182	Batch#:	212965
Lab ID:	258705-009	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	39	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	0.6	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	1.5	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	0.9	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-3@182	Batch#:	212965
Lab ID:	258705-009	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	77-136
1,2-Dichloroethane-d4	96	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-4	Batch#:	212965
Lab ID:	258705-010	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	18	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-4	Batch#:	212965
Lab ID:	258705-010	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	77-136
1,2-Dichloroethane-d4	98	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	WJ-41	Batch#:	212965
Lab ID:	258705-011	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	31	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	1.3	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	0.7	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	WJ-41	Batch#:	212965
Lab ID:	258705-011	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	77-136
1,2-Dichloroethane-d4	97	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	DUP1	Batch#:	212965
Lab ID:	258705-012	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	31	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	1.3	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	0.6	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	DUP1	Batch#:	212965
Lab ID:	258705-012	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	77-136
1,2-Dichloroethane-d4	98	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-9@138	Batch#:	212965
Lab ID:	258705-013	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	17	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	25	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-9@138	Batch#:	212965
Lab ID:	258705-013	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	77-136
1,2-Dichloroethane-d4	96	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-9@148	Batch#:	212965
Lab ID:	258705-014	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	25	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-9@148	Batch#:	212965
Lab ID:	258705-014	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	77-136
1,2-Dichloroethane-d4	96	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-8@174	Batch#:	212964
Lab ID:	258705-015	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	40	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	1.6	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-8@174	Batch#:	212964
Lab ID:	258705-015	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	77-136
1,2-Dichloroethane-d4	100	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-8@185	Batch#:	212964
Lab ID:	258705-016	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	39	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-8@185	Batch#:	212964
Lab ID:	258705-016	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	77-136
1,2-Dichloroethane-d4	100	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-8@195	Batch#:	212964
Lab ID:	258705-017	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	44	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-8@195	Batch#:	212964
Lab ID:	258705-017	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	77-136
1,2-Dichloroethane-d4	100	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-5	Batch#:	212964
Lab ID:	258705-018	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	39	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-5	Batch#:	212964
Lab ID:	258705-018	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	77-136
1,2-Dichloroethane-d4	100	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-6@125	Batch#:	212964
Lab ID:	258705-019	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	43	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	1.3	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	3.5	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	68	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-6@125	Batch#:	212964
Lab ID:	258705-019	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	77-136
1,2-Dichloroethane-d4	100	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-6@133	Batch#:	212964
Lab ID:	258705-020	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	45	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	1.2	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	4.0	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	63	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	KV-6@133	Batch#:	212964
Lab ID:	258705-020	Sampled:	07/01/14
Matrix:	Water	Received:	07/02/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	77-136
1,2-Dichloroethane-d4	100	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	212964
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Type: BS Lab ID: QC747913

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	14.07	113	65-134
Benzene	12.50	13.41	107	80-124
Trichloroethene	12.50	13.19	106	80-120
Toluene	12.50	13.23	106	80-122
Chlorobenzene	12.50	13.64	109	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	77-136
1,2-Dichloroethane-d4	102	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC747914

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	14.26	114	65-134	1	20
Benzene	12.50	13.17	105	80-124	2	20
Trichloroethene	12.50	12.99	104	80-120	2	20
Toluene	12.50	13.00	104	80-122	2	20
Chlorobenzene	12.50	13.38	107	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	77-136
1,2-Dichloroethane-d4	101	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC747915	Batch#:	212964
Matrix:	Water	Analyzed:	07/07/14
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC747915	Batch#:	212964
Matrix:	Water	Analyzed:	07/07/14
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	77-136
1,2-Dichloroethane-d4	100	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	212965
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Type: BS Lab ID: QC747916

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.06	100	65-134
Benzene	25.00	25.49	102	80-124
Trichloroethene	25.00	25.98	104	80-120
Toluene	25.00	25.62	102	80-122
Chlorobenzene	25.00	27.01	108	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	95	77-136
1,2-Dichloroethane-d4	92	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	96	80-120

Type: BSD Lab ID: QC747917

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	27.28	109	65-134	9	20
Benzene	25.00	26.95	108	80-124	6	20
Trichloroethene	25.00	27.80	111	80-120	7	20
Toluene	25.00	26.97	108	80-122	5	20
Chlorobenzene	25.00	28.21	113	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	77-136
1,2-Dichloroethane-d4	90	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC747918	Batch#:	212965
Matrix:	Water	Analyzed:	07/07/14
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258705	Location:	SVG Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC747918	Batch#:	212965
Matrix:	Water	Analyzed:	07/07/14
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	77-136
1,2-Dichloroethane-d4	95	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 258709
ANALYTICAL REPORT

Arcadis	Project : RC000463
2000 Powell St	Location : SVG- Scotts Valley, CA
Emeryville, CA 94608	Level : II

Sample ID	Lab ID
WESCOSA WELL (GRAB)	258709-001
KV-1 (GRAB)	258709-002
KV-2 (GRAB)	258709-003
KV-3 (GRAB)	258709-004
KV-4 (GRAB)	258709-005
WJ-41 (GRAB)	258709-006
KV-9 (GRAB)	258709-007
KV-8 (GRAB)	258709-008
KV-5 (GRAB)	258709-009
KV-6 (GRAB)	258709-010
KV-7 (GRAB)	258709-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 07/10/2014

Will S Rice
Project Manager
will.rice@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**258709**
Client:	**Arcadis**
Project:	**RC000463**
Location:	**SVG- Scotts Valley, CA**
Request Date:	**07/02/14**
Samples Received:	**07/02/14**

This data package contains sample and QC results for eleven water samples, requested for the above referenced project on 07/02/14. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

258709 Curtis + Tompkins

ARCADIS
Infrastructure · Water · Environment · Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order #

Send Results to:
Contact & Company Name: R. Wynne ARCADIS
Telephone:
Address: on file
Fax:
City State Zip
E-mail Address:

Project Name/Location (City, State): SVG - Scotts Valley, CA
Project #: RC000463.0112.NA214
Sampler's Printed Name: Heather Tauscher
Sampler's Signature:

Preservative	HCL											
Filtered (✓)												
# of Containers	3											
Container Information	VOAs											

PARAMETER ANALYSIS & METHOD

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other: _____
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: _____
10. Other: _____

Matrix Key:
SO - Soil, SE - Sediment, NL - NAPL/Oil
W - Water, SL - Sludge, SW - Sample Wipe
T - Tissue, A - Air, Other: _____

	Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	8260B MTBE							REMARKS
1	Wescosa Well (Grab)	07/01/14	0830		X	GW	3							
2	KV-1 (Grab)	07/01/14	1013		X	GW	3							
3	KV-2 (Grab)	07/01/14	1046		X	GW	3							
4	KV-3 (Grab)	07/01/14	1114		X	GW	3							
5	KV-4 (Grab)	07/01/14	1138		X	W	3							
6	WJ-41 (Grab)	07/01/14	1253		X	W	3							
7	KV-9 (Grab)	07/01/14	1330		X	W	3							
8	KV-8 (Grab)	07/01/14	1403		X	W	3							
9	KV-5 (Grab)	07/01/14	1432		X	W	3							
10	KV-6 (Grab)	07/01/14	1503		X	W	3							
11	KV-7 (Grab)	07/01/14	1551		X	W	3							

Special Instructions/Comments:

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt

Lab Name: Curtis & Tompkins
☒ Cooler packed with ice (✓)
Specify Turnaround Requirements: Standard
Shipping Tracking #:

Cooler Custody Seal (✓): ☐ Intact ☐ Not Intact
Sample Receipt:
Condition/Cooler Temp: _____

Relinquished By	Received By	Relinquished By	Laboratory Received By
Printed Name: Heather Tauscher	Printed Name: Shane Lawton	Printed Name: Shane Lawton	Printed Name: Michelle Chang
Signature:	Signature:	Signature:	Signature:
Firm: ARCADIS	Firm/Courier: C&T	Firm/Courier: C&T	Firm: C&T
Date/Time: 07/02/14 @ 0550	Date/Time: 7/2/14 @ 1456	Date/Time: 7/2/14 @ 1740	Date/Time: 7/2/14 @ 1740

20730826 CofC AR Form 01.12.2007

Distribution: WHITE – Laboratory returns with results YELLOW – Lab copy PINK – Retained by ARCADIS

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 258709 Date Received 7/2/14 Number of coolers 1
Client Arcadis Project

Date Opened 07/2/14 By (print) NY (sign) [illegible]
Date Logged in 7/3/14 By (print) MC (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc) YES ~~NO~~
   Shipping info
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many Name Date
2B. Were custody seals intact upon arrival? YES NO ~~N/A~~
3. Were custody papers dry and intact when received? ~~YES~~ NO
4. Were custody papers filled out properly (ink, signed, etc)? ~~YES~~ NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ~~YES~~ NO
6. Indicate the packing in cooler: (if other, describe)

   ☒ Bubble Wrap ☒ Foam blocks ☒ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.3

   ☐ Samples received on ice & cold without a temperature blank; temp taken with IR gun

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? YES NO (N/A)
17. Did you document your preservative check? YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? (YES) NO N/A
21. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS

Rev 10, 10/11

Curtis & Tompkins, Ltd.

Detections Summary for 258709

Client : Arcadis
Project : RC000463
Location : SVG- Scotts Valley, CA

Client Sample ID : WESCOSA WELL (GRAB) Laboratory Sample ID : 258709-001

No Detections

Client Sample ID : KV-1 (GRAB) Laboratory Sample ID : 258709-002

No Detections

Client Sample ID : KV-2 (GRAB) Laboratory Sample ID : 258709-003

No Detections

Client Sample ID : KV-3 (GRAB) Laboratory Sample ID : 258709-004

No Detections

Client Sample ID : KV-4 (GRAB) Laboratory Sample ID : 258709-005

No Detections

Client Sample ID : WJ-41 (GRAB) Laboratory Sample ID : 258709-006

No Detections

Client Sample ID : KV-9 (GRAB) Laboratory Sample ID : 258709-007

No Detections

Client Sample ID : KV-8 (GRAB) Laboratory Sample ID : 258709-008

No Detections

Client Sample ID : KV-5 (GRAB) Laboratory Sample ID : 258709-009

No Detections

Curtis & Tompkins, Ltd.

Client Sample ID : KV-6 (GRAB) Laboratory Sample ID : 258709-010

No Detections

Client Sample ID : KV-7 (GRAB) Laboratory Sample ID : 258709-011

No Detections

Curtis & Tompkins, Ltd.

MTBE by GC/MS

Lab #:	258709	Location:	SVG- Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	07/01/14
Units:	ug/L	Received:	07/02/14
Diln Fac:	1.000	Analyzed:	07/07/14

Field ID: WESCOSA WELL (GRAB) Lab ID: 258709-001
Type: SAMPLE Batch#: 212964

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	77-136

Field ID: KV-1 (GRAB) Lab ID: 258709-002
Type: SAMPLE Batch#: 212964

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	77-136

Field ID: KV-2 (GRAB) Lab ID: 258709-003
Type: SAMPLE Batch#: 212964

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	108	77-136

Field ID: KV-3 (GRAB) Lab ID: 258709-004
Type: SAMPLE Batch#: 212964

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	77-136

Field ID: KV-4 (GRAB) Lab ID: 258709-005
Type: SAMPLE Batch#: 212967

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	77-136

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

MTBE by GC/MS

Lab #:	258709	Location:	SVG- Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	07/01/14
Units:	ug/L	Received:	07/02/14
Diln Fac:	1.000	Analyzed:	07/07/14

Field ID: WJ-41 (GRAB) Lab ID: 258709-006
Type: SAMPLE Batch#: 212967

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	77-136

Field ID: KV-9 (GRAB) Lab ID: 258709-007
Type: SAMPLE Batch#: 212967

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	77-136

Field ID: KV-8 (GRAB) Lab ID: 258709-008
Type: SAMPLE Batch#: 212967

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	77-136

Field ID: KV-5 (GRAB) Lab ID: 258709-009
Type: SAMPLE Batch#: 212967

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	77-136

Field ID: KV-6 (GRAB) Lab ID: 258709-010
Type: SAMPLE Batch#: 212967

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	108	77-136

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

MTBE by GC/MS

Lab #:	258709	Location:	SVG- Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	07/01/14
Units:	ug/L	Received:	07/02/14
Diln Fac:	1.000	Analyzed:	07/07/14

Field ID:	KV-7 (GRAB)	Lab ID:	258709-011
Type:	SAMPLE	Batch#:	212967

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	77-136

Type:	BLANK	Batch#:	212964
Lab ID:	QC747915		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	77-136

Type:	BLANK	Batch#:	212967
Lab ID:	QC747926		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	77-136

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

MTBE by GC/MS

Lab #:	258709	Location:	SVG- Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	212964
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Type: BS Lab ID: QC747913

Analyte	Spiked	Result	%REC	Limits
MTBE	12.50	12.16	97	64-121

Surrogate	%REC	Limits
Dibromofluoromethane	102	77-136

Type: BSD Lab ID: QC747914

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	12.50	12.19	98	64-121	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	77-136

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

MTBE by GC/MS

Lab #:	258709	Location:	SVG- Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	212967
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Type: BS Lab ID: QC747924

Analyte	Spiked	Result	%REC	Limits
MTBE	12.50	11.14	89	64-121

Surrogate	%REC	Limits
Dibromofluoromethane	107	77-136

Type: BSD Lab ID: QC747925

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	12.50	10.21	82	64-121	9	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	77-136

RPD= Relative Percent Difference

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 258720
ANALYTICAL REPORT

Arcadis	Project : RC000463
2000 Powell St	Location : SVG-AVIZA Scotts Valley, CA
Emeryville, CA 94608	Level : II

Sample ID	Lab ID
WJ-11 (GRAB)	258720-001
EX-01 (GRAB)	258720-002
WJ-43 (GRAB)	258720-003
WJ-37A (GRAB)	258720-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 07/11/2014

Will S Rice
Project Manager
will.rice@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**258720**
Client:	**Arcadis**
Project:	**RC000463**
Location:	**SVG-AVIZA Scotts Valley, CA**
Request Date:	**07/03/14**
Samples Received:	**07/03/14**

This data package contains sample and QC results for four water samples, requested for the above referenced project on 07/03/14. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

258720

ARCADIS
Infrastructure · Water · Environment · Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order #

Send Results to:

Contact & Company Name: K. Wynne / Arcadis
Telephone:
Address:
Fax: file
City State Zip
E-mail Address:

Project Name/Location (City, State): SVG-AVIZA Scotts Valley, CA
Project #: RC000463.0112.NA214
Sampler's Printed Name: Heather Tauscher
Sampler's Signature:

PARAMETER ANALYSIS & METHOD

Preservative	HCL							
Filtered (✓)								
# of Containers	3							
Container Information	VOAS							

	Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	MTBE							REMARKS
1	WJ-11 (Grab)	07/03/14	0844		X	W	3							
2	EX-01 (Grab)	07/03/14	0931		X	W	3							
3	WJ-43 (Grab)	07/03/14	0957		X	W	3							
4	WJ-37A (Grab)	07/03/14	1013		X	W	3							

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other:
G. Other:
H. Other:

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other:
10. Other:

Matrix Key:
SO - Soil
W - Water
T - Tissue
SE - Sediment
SL - Sludge
A - Air
NL - NAPL/Oil
SW - Sample Wipe
Other:

Special Instructions/Comments:

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt

Lab Name: Curtis & Tompkins
☒ Cooler packed with ice (✓)
Specify Turnaround Requirements: Standard
Shipping Tracking #:
Cooler Custody Seal (✓): ☐ Intact ☐ Not Intact
Sample Receipt:
Condition/Cooler Temp:

Relinquished By	Received By	Relinquished By	Laboratory Received By
Printed Name: Heather Tauscher	Printed Name: Shane Lawton	Printed Name: Shane Lawton	Printed Name: Michelle Chong
Signature:	Signature:	Signature:	Signature:
Firm: ARCADIS	Firm/Courier: C&T	Firm/Courier: C&T	Firm: C&T
Date/Time: 07/03/14 @ 1423	Date/Time: 7/3/14 @ 1423	Date/Time: 7/3/14 @ 1647	Date/Time: 7/3/14 @ 1647

20730826 CofC AR Form 01.12.2007

Distribution: WHITE – Laboratory returns with results YELLOW – Lab copy PINK – Retained by ARCADIS

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 258720 Date Received 01/3/14 Number of coolers 1
Client ARCADIS Project RC000463.0112.NA214

Date Opened 01/3/14 By (print) NY (sign) [illegible]
Date Logged in 4 By (print) MC (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES ~~NO~~
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO ~~NA~~
3. Were custody papers dry and intact when received? _____ ~~YES~~ NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ ~~YES~~ NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ ~~YES~~ NO
6. Indicate the packing in cooler: (if other, describe) _____

   ☐ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 1.9°

   ☐ Samples received on ice & cold without a temperature blank; temp taken with IR gun

   ☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES ~~NO~~
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ ~~YES~~ NO
10. Are there any missing / extra samples? _____ YES ~~NO~~
11. Are samples in the appropriate containers for indicated tests? _____ ~~YES~~ NO
12. Are sample labels present, in good condition and complete? _____ ~~YES~~ NO
13. Do the sample labels agree with custody papers? _____ ~~YES~~ NO
14. Was sufficient amount of sample sent for tests requested? _____ ~~YES~~ NO
15. Are the samples appropriately preserved? _____ ~~YES~~ NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO ~~N/A~~
17. Did you document your preservative check? _____ YES NO ~~N/A~~
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO ~~N/A~~
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO ~~N/A~~
20. Are bubbles > 6mm absent in VOA samples? _____ ~~YES~~ NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES ~~NO~~
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____

Rev 10, 10/11

Curtis & Tompkins, Ltd.

Detections Summary for 258720

Client : Arcadis
Project : RC000463
Location : SVG-AVIZA Scotts Valley, CA

Client Sample ID : WJ-11 (GRAB) Laboratory Sample ID : 258720-001

No Detections

Client Sample ID : EX-01 (GRAB) Laboratory Sample ID : 258720-002

No Detections

Client Sample ID : WJ-43 (GRAB) Laboratory Sample ID : 258720-003

No Detections

Client Sample ID : WJ-37A (GRAB) Laboratory Sample ID : 258720-004

No Detections

Curtis & Tompkins, Ltd.

MTBE by GC/MS

Lab #:	258720	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	07/03/14
Units:	ug/L	Received:	07/03/14
Diln Fac:	1.000	Analyzed:	07/07/14
Batch#:	212967		

Field ID: WJ-11 (GRAB) Lab ID: 258720-001
Type: SAMPLE

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	112	77-136

Field ID: EX-01 (GRAB) Lab ID: 258720-002
Type: SAMPLE

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	77-136

Field ID: WJ-43 (GRAB) Lab ID: 258720-003
Type: SAMPLE

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	77-136

Field ID: WJ-37A (GRAB) Lab ID: 258720-004
Type: SAMPLE

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	111	77-136

Type: BLANK Lab ID: QC747926

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	77-136

ND= Not Detected
RL= Reporting Limit

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 258723
ANALYTICAL REPORT

Arcadis	Project : RC000463
2000 Powell St	Location : SVG-AVIZA Scotts Valley, CA
Emeryville, CA 94608	Level : II

Sample ID	Lab ID
TB070314	258723-001
WJ-11	258723-002
EX-01@125	258723-003
EX-01@145	258723-004
WJ-43	258723-005
WJ-37A	258723-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 07/11/2014

Will S Rice
Project Manager
will.rice@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**258723**
Client:	**Arcadis**
Project:	**RC000463**
Location:	**SVG-AVIZA Scotts Valley, CA**
Request Date:	**07/03/14**
Samples Received:	**07/03/14**

This data package contains sample and QC results for six water samples, requested for the above referenced project on 07/03/14. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
High surrogate recovery was observed for bromofluorobenzene in EX-01@125 (lab # 258723-003). No other analytical problems were encountered.

258723

ARCADIS
Infrastructure · Water · Environment · Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order #

Send Results to:

Contact & Company Name: K. Wynne/Arcadis
Telephone: on file
Address:
Fax:
City State Zip
E-mail Address:

Project Name/Location (City, State): SVG-AVIZA Scotts Valley, CA
Project #: RC000083.0112.NA214
Sampler's Printed Name: Heather Tauscher
Sampler's Signature:

Preservative	HCL						
Filtered (✓)							
# of Containers	3						
Container Information	VOAS						

PARAMETER ANALYSIS & METHOD

8260B

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other:
G. Other:
H. Other:

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other:
10. Other:

Matrix Key:
SO - Soil, SE - Sediment, NL - NAPL/Oil, W - Water, SL - Sludge, SW - Sample Wipe, T - Tissue, A - Air, Other:

	Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	8260B	REMARKS
1	TB070314	07/03/14	—		X	W	3	
2	WJ-11	07/03/14	0835		X	W	3	
3	EX-01 @ 125	07/03/14	0921		X	W	3	
4	EX-01 @ 145	07/03/14	0925		X	W	3	
5	WJ-43	07/03/14	0953		X	W	3	
6	WJ-37A	07/03/14	1009		X	W	3	

Special Instructions/Comments:

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt

Lab Name: Curtis & Tompkins
☒ Cooler packed with ice (✓)
Specify Turnaround Requirements: Standard
Shipping Tracking #:

Cooler Custody Seal (✓): ☐ Intact ☐ Not Intact
Sample Receipt:
Condition/Cooler Temp:

Relinquished By	Received By	Relinquished By	Laboratory Received By
Printed Name: Heather Tauscher	Printed Name: Shane Lawton	Printed Name: Shane Lawton	Printed Name: Mikelle Chong
Signature:	Signature:	Signature:	Signature:
Firm: ARCADIS	Firm/Courier: C&T	Firm/Courier: C&T	Firm: C&T
Date/Time: 07/03/14 @ 1423	Date/Time: 7/3/14 @ 1423	Date/Time: 7/3/14 1647	Date/Time: 7/3/14 1647

20730826 CofC AR Form 01.12.2007

Distribution: WHITE – Laboratory returns with results YELLOW – Lab copy PINK – Retained by ARCADIS

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 258723 Date Received 01/3/14 Number of coolers 1
Client ARCADIS Project RC 000463.0112.NA214

Date Opened 01/3/14 By (print) NY (sign) [illegible]
Date Logged in _____ By (print) _____ (sign) _____

1. Did cooler come with a shipping slip (airbill, etc) _____ YES ~~NO~~
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO ~~N/A~~
3. Were custody papers dry and intact when received? _____ ~~YES~~ NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ ~~YES~~ NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ ~~YES~~ NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 1.9°

☐ Samples received on ice & cold without a temperature blank; temp taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES ~~NO~~
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ ~~YES~~ NO
10. Are there any missing / extra samples? _____ YES ~~NO~~
11. Are samples in the appropriate containers for indicated tests? _____ ~~YES~~ NO
12. Are sample labels present, in good condition and complete? _____ ~~YES~~ NO
13. Do the sample labels agree with custody papers? _____ ~~YES~~ NO
14. Was sufficient amount of sample sent for tests requested? _____ ~~YES~~ NO
15. Are the samples appropriately preserved? _____ ~~YES~~ NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO ~~N/A~~
17. Did you document your preservative check? _____ YES NO ~~N/A~~
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO ~~N/A~~
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO ~~N/A~~
20. Are bubbles > 6mm absent in VOA samples? _____ ~~YES~~ NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES ~~NO~~
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____

Rev 10, 10/11

Curtis & Tompkins, Ltd.

Detections Summary for 258723

Client : Arcadis
Project : RC000463
Location : SVG-AVIZA Scotts Valley, CA

Client Sample ID : TB070314 Laboratory Sample ID : 258723-001

No Detections

Client Sample ID : WJ-11 Laboratory Sample ID : 258723-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	27		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : EX-01@125 Laboratory Sample ID : 258723-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	11		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : EX-01@145 Laboratory Sample ID : 258723-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	22		10	1.6	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	0.9		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	31		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : WJ-43 Laboratory Sample ID : 258723-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	14		10	1.6	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	17		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : WJ-37A Laboratory Sample ID : 258723-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	50		10	1.6	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	0.6		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	16		0.5	0.1	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	TB070314	Batch#:	212967
Lab ID:	258723-001	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	TB070314	Batch#:	212967
Lab ID:	258723-001	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	77-136
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	WJ-11	Batch#:	212967
Lab ID:	258723-002	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	27	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	WJ-11	Batch#:	212967
Lab ID:	258723-002	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	77-136
1,2-Dichloroethane-d4	108	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	EX-01@125	Batch#:	212967
Lab ID:	258723-003	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	11	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	EX-01@125	Batch#:	212967
Lab ID:	258723-003	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	111	77-136
1,2-Dichloroethane-d4	118	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	154 *	80-120

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	EX-01@145	Batch#:	212971
Lab ID:	258723-004	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	22	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	0.9	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	31	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	EX-01@145	Batch#:	212971
Lab ID:	258723-004	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	77-136
1,2-Dichloroethane-d4	120	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	WJ-43	Batch#:	212971
Lab ID:	258723-005	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	14	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	17	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	WJ-43	Batch#:	212971
Lab ID:	258723-005	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	111	77-136
1,2-Dichloroethane-d4	122	75-139
Toluene-d8	104	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	WJ-37A	Batch#:	212971
Lab ID:	258723-006	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	50	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	0.6	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	16	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	WJ-37A	Batch#:	212971
Lab ID:	258723-006	Sampled:	07/03/14
Matrix:	Water	Received:	07/03/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	111	77-136
1,2-Dichloroethane-d4	119	75-139
Toluene-d8	104	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	212967
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Type: BS Lab ID: QC747924

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.74	102	65-134
Benzene	12.50	12.36	99	80-124
Trichloroethene	12.50	12.27	98	80-120
Toluene	12.50	12.94	104	80-122
Chlorobenzene	12.50	13.90	111	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	107	77-136
1,2-Dichloroethane-d4	110	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	97	80-120

Type: BSD Lab ID: QC747925

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.64	93	65-134	9	20
Benzene	12.50	11.82	95	80-124	4	20
Trichloroethene	12.50	11.72	94	80-120	5	20
Toluene	12.50	12.30	98	80-122	5	20
Chlorobenzene	12.50	13.32	107	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	77-136
1,2-Dichloroethane-d4	110	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC747926	Batch#:	212967
Matrix:	Water	Analyzed:	07/07/14
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC747926	Batch#:	212967
Matrix:	Water	Analyzed:	07/07/14
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	77-136
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	212971
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Type: BS Lab ID: QC747940

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	10.63	85	65-134
Benzene	12.50	11.82	95	80-124
Trichloroethene	12.50	11.50	92	80-120
Toluene	12.50	11.55	92	80-122
Chlorobenzene	12.50	11.72	94	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	109	77-136
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	103	80-120

Type: BSD Lab ID: QC747941

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	10.82	87	65-134	2	20
Benzene	12.50	11.03	88	80-124	7	20
Trichloroethene	12.50	10.75	86	80-120	7	20
Toluene	12.50	10.89	87	80-122	6	20
Chlorobenzene	12.50	11.14	89	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	108	77-136
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	103	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC747942	Batch#:	212971
Matrix:	Water	Analyzed:	07/07/14
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC747942	Batch#:	212971
Matrix:	Water	Analyzed:	07/07/14
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	77-136
1,2-Dichloroethane-d4	117	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	105	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	258723	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	212971
MSS Lab ID:	258671-012	Sampled:	07/01/14
Matrix:	Water	Received:	07/01/14
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	3.333		

Type: MS Lab ID: QC748000

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	0.6630	83.33	82.78	99	69-129
Benzene	<0.3333	83.33	83.23	100	80-127
Trichloroethene	83.34	83.33	159.6	92	70-127
Toluene	<0.3333	83.33	80.95	97	80-123
Chlorobenzene	<0.4320	83.33	83.25	100	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	112	77-136
1,2-Dichloroethane-d4	114	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	104	80-120

Type: MSD Lab ID: QC748001

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	83.33	88.92	106	69-129	7	26
Benzene	83.33	86.30	104	80-127	4	23
Trichloroethene	83.33	164.7	98	70-127	3	21
Toluene	83.33	85.54	103	80-123	6	22
Chlorobenzene	83.33	87.55	105	80-120	5	22

Surrogate	%REC	Limits
Dibromofluoromethane	109	77-136
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	104	80-120
Bromofluorobenzene	102	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

MTBE by GC/MS

Lab #:	258720	Location:	SVG-AVIZA Scotts Valley, CA
Client:	Arcadis	Prep:	EPA 5030B
Project#:	RC000463	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	212967
Units:	ug/L	Analyzed:	07/07/14
Diln Fac:	1.000		

Type: BS Lab ID: QC747924

Analyte	Spiked	Result	%REC	Limits
MTBE	12.50	11.14	89	64-121

Surrogate	%REC	Limits
Dibromofluoromethane	107	77-136

Type: BSD Lab ID: QC747925

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	12.50	10.21	82	64-121	9	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	77-136

RPD= Relative Percent Difference