KDHE Project Code: C6-074-00002: Progress and Monitoring Report for the LBD/SVE/AS System at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in July-December 2017

Environmental Science Division

United States Department of Agriculture

Work sponsored by Commodity Credit Corporation,
United States Department of Agriculture

About Argonne National Laboratory

Argonne is a U.S. Department of Energy laboratory managed by UChicago Argonne, LLC under contract DE-AC02-06CH11357. The Laboratory's main facility is outside Chicago, at 9700 South Cass Avenue, Argonne, Illinois 60439. For information about Argonne and its pioneering science and technology programs, see www.anl.gov.

DOCUMENT AVAILABILITY

Online Access: U.S. Department of Energy (DOE) reports produced after 1991 and a growing number of pre-1991 documents are available free via DOE's **SciTech Connect** (<http://www.osti.gov/scitech/>)

Reports not in digital format may be purchased by the public from the National Technical Information Service (NTIS):

U.S. Department of Commerce
National Technical Information Service
5301 Shawnee Rd
Alexandria, VA 22312
www.ntis.gov
Phone: (800) 553-NTIS (6847) or (703) 605-6000
Fax: (703) 605-6900
Email: **orders@ntis.gov**

Reports not in digital format are available to DOE and DOE contractors from the Office of Scientific and Technical Information (OSTI):

U.S. Department of Energy
Office of Scientific and Technical Information
P.O. Box 62
Oak Ridge, TN 37831-0062
www.osti.gov
Phone: (865) 576-8401
Fax: (865) 576-5728
Email: **reports@osti.gov**

Disclaimer

This report was prepared as an account of work sponsored by an agency of the United States Government. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of document authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof, Argonne National Laboratory, or UChicago Argonne, LLC.

**KDHE Project Code: C6-074-00002: Progress and
Monitoring Report for the LBD/SVE/AS System at
the Former CCC/USDA Grain Storage Facility,
Agra, Kansas, in July-December 2017**

by
Applied Geosciences and Environmental Management Section
Environmental Science Division, Argonne National Laboratory

July 2018

United States Department of Agriculture

Work sponsored by Commodity Credit Corporation,
United States Department of Agriculture

Contents

Notation.....	vii
1 Introduction.....	1-1
2 LDB/SVE/AS System Description and Monitoring Schedule.....	2-1
2.1 LDB/SVE/AS System Description	2-1
2.2 LDB/SVE/AS System Monitoring Schedule	2-1
2.2.1 Daily OMM Activities	2-1
2.2.2 Monthly OMM Activities	2-2
2.2.3 Quarterly OMM Activities.....	2-2
3 OMM Activities in This Reporting Period	3-1
3.1 August 1, 2017 — Quarterly OMM Event by GreenField	3-1
3.2 August 24, 2017 — Monthly OMM Event by GreenField.....	3-2
3.3 September 28, 2017 — Monthly OMM Event by GreenField	3-3
3.4 October 17-18, 2017 — Twice-Yearly Soil Gas and Quarterly Groundwater Sampling by Argonne	3-3
3.5 October 28, 2017 — Quarterly OMM Event by GreenField	3-4
3.6 November 28, 2017 — Monthly OMM Event by GreenField.....	3-5
3.7 December 14-18, 2017 — Quarterly Groundwater Sampling by Argonne	3-5
3.8 December 29, 2017 — Monthly OMM Event by GreenField	3-6
3.9 Daily Telemetry Reports.....	3-7
3.10 Continuous Soil Gas Pressure Monitoring.....	3-7
3.11 Continuous Water Level Monitoring	3-7
4 OMM Results in This Reporting Period	4-1
4.1 LDB/SVE/AS System Status	4-1
4.2 LDB/SVE/AS System Performance Data.....	4-2
4.3 Groundwater Level Data.....	4-3
5 Analysis and Discussion	5-1
5.1 Effectiveness of the SVE/AS System in Removing Carbon Tetrachloride	5-1
5.2 Optimization of System Performance.....	5-2
6 References.....	6-1

Contents (Cont.)

Appendix A: Data for Argonne’s Twice-Yearly Soil Gas and Quarterly Groundwater Sampling on October 17-18, 2017	A-1
Appendix B: Data for Argonne’s Quarterly Groundwater Sampling on December 14-18, 2017.....	B-1
Appendix C: Well Locations and Water Level Data.....	C-1
Supplement 1: GreenField Report for Quarterly OMM Event on August 1, 2017	on CD
Supplement 2: GreenField Report for Monthly OMM Event on August 24, 2017	on CD
Supplement 3: GreenField Report for Monthly OMM Event on September 28, 2017	on CD
Supplement 4: TestAmerica Data for Argonne’s Twice-Yearly Soil Gas Sampling on October 17, 2017	on CD
Supplement 5: TestAmerica Data for Argonne’s Quarterly Groundwater Sampling on October 17, 2017	on CD
Supplement 6: GreenField Report for Quarterly OMM Event on October 28, 2017	on CD
Supplement 7: GreenField Report for Monthly OMM Event on November 28, 2017	on CD
Supplement 8: GreenField Report for Monthly OMM Event on December 29, 2017	on CD
Supplement 9: Daily Telemetry Reports	on CD
Supplement 10: Automatically Recorded Air Pressures in Soil Gas Wells and Local Barometric Pressure	on CD
Supplement 11: Automatically Recorded Water Level Data	on CD

Figures

2.1	Locations of the LDB/SVE/AS installations at the former CCC/USDA grain storage facility at Agra, Kansas	2-6
2.2	Internal construction of the LDB/SVE/AS system in each LDB installation, along with the designed pattern of air flow within the system	2-7
2.3	The compressed air and vacuum lines in the SVE/AS equipment trailer	2-8
4.1	Carbon tetrachloride concentrations in groundwater in the Agra treatment area during the current reporting period, with circles representing areas within 30 ft and 80 ft of the approximate center of the LDB installations	4-37
4.2a	Sitewide groundwater level elevations on October 17-18, 2017, as interpreted from manually recorded data	4-38
4.2b	Sitewide groundwater level elevations on December 14-15, 2017, as interpreted from manually recorded data	4-39
4.3a	Treatment area groundwater level elevations on October 17-18, 2017, as interpreted from manually recorded data	4-40
4.3b	Treatment area groundwater level elevations on December 14-15, 2017, as interpreted from manually recorded data	4-41

Tables

1.1	Activity log for the LDB/SVE/AS system at the former CCC/USDA grain storage facility	1-3
2.1	Itemized OMM summary for the SVE/AS system at Agra	2-3
2.2	Construction details for soil gas and groundwater wells sampled to monitor the LDB/SVE/AS system at Agra	2-5
4.1	Operating flow rates for the SVE and AS systems	4-4
4.2	Operating pressures for the SVE and AS systems	4-8
4.3	Analytical results from GreenField for SVE wells	4-14
4.4	Analytical results for soil gas samples	4-19

Tables (Cont.)

4.5	Analytical results for groundwater samples.....	4-24
4.6	Dissolved oxygen levels in groundwater since 2009	4-36
5.1	Schedule for pulsed operations, beginning in May 2012.....	5-4
A.1	Sequence of activities during twice-yearly soil gas and quarterly groundwater sampling on October 17-18, 2017.....	A-2
A.2	Field measurements made during collection of groundwater samples on October 17, 2017.....	A-4
A.3	TestAmerica analytical results for soil gas samples collected on October 17, 2017.....	A-5
A.4	AGEM Laboratory analytical results for quarterly groundwater samples collected on October 17, 2017	A-6
A.5	AGEM Laboratory analytical results for quality control samples collected during quarterly groundwater monitoring on October 17, 2017.....	A-7
A.6	Analytical results for quarterly groundwater samples collected on October 17, 2017, and submitted for verification analysis	A-8
B.1	Sequence of activities during quarterly groundwater sampling at Agra, Kansas, on December 14-18, 2017.....	B-2
B.2	Field measurements made during collection of groundwater samples on December 14, 2017	B-4
B.3	AGEM Laboratory analytical results for quarterly groundwater samples collected on December 14, 2017.....	B-5
B.4	AGEM Laboratory analytical results for quality control samples collected during quarterly groundwater monitoring on December 14, 2017	B-6
B.5	Analytical results for quarterly groundwater samples collected on December 6-7, 2016, and submitted for verification organic analysis.	B-7

Tables (Cont.)

C.1	Well location and completion data	C-2
C.2	Hand-measured groundwater levels since 2009	C-3

Notation

AGEM	Applied Geosciences and Environmental Management
AS	air sparge
BGL	below ground level
°C	degree(s) Celsius
CCC	Commodity Credit Corporation
CD	compact disc
COC	chain-of-custody form
1,2-DCA	1,2-dichloroethane
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
ft	foot (feet)
hr	hour(s)
IMWP/D	<i>Interim Measure Work Plan/Design</i>
in.	inch(es)
KDHE	Kansas Department of Health and Environment
L	liter(s)
LDB	large-diameter borehole
µg/kg	microgram(s) per kilogram
µg/L	microgram(s) per liter
µg/m ³	microgram(s) per cubic meter
µS/cm	microsiemen(s) per centimeter
mg/L	milligram(s) per liter
min	minute(s)
mV	millivolt(s)
OMM	operations, maintenance, and monitoring
ppm	part(s) per million
psi	pounds per square inch
PWS	public water supply
scfm	standard cubic feet per minute
SVE	soil vapor extraction
TOC	top of casing
USDA	U.S. Department of Agriculture
VOC	volatile organic compound
WC	water column
yr	year(s)

**KDHE Project Code: C6-074-00002:
Progress and Monitoring Report for the LDB/SVE/AS System
at the Former CCC/USDA Grain Storage Facility, Agra, Kansas,
in July-December 2017**

1 Introduction

The Commodity Credit Corporation of the U.S. Department of Agriculture (CCC/USDA) operated a grain storage facility at Agra, Kansas, from the 1950s to the early 1970s. No structures remain on the property, and the land is used for agricultural purposes, specifically wheat production. The property is currently owned by the Kyle Railroad Co. and is leased to Mr. Herb VanEaton. The Pro-Ag Marketing grain storage facility is directly south of the former CCC/USDA facility.

In 1985, carbon tetrachloride was detected in groundwater samples collected from Agra public water supply wells PWS-3 and PWS-4, located approximately 2,000 ft south of the former CCC/USDA facility and approximately 1,800 ft south of the Pro-Ag Marketing facility, at levels below the maximum contaminant level of 5.0 µg/L. In 1986, in response to an increase in carbon tetrachloride to 12 µg/L in well PWS-3, the city was required to remove both PWS-3 and PWS-4 from service. The Agra public water supply system is currently served by three other wells (PWS-1, PWS-2, and PWS-5) that are outside the area of contamination.

In 2005, the Environmental Science Division of Argonne National Laboratory conducted a comprehensive investigation of potential contaminant source areas at Agra, on behalf of the CCC/USDA. Data collected during the 2005 investigation identified three primary source areas for the carbon tetrachloride contamination (Argonne 2006). One source is located on the former CCC/USDA property, and the other two sources are on property owned and operated by Pro-Ag Marketing. Detection of nitrate, as nitrogen, in numerous groundwater samples across the Pro-Ag property at concentrations considerably higher than upgradient levels established Pro-Ag as a source of nitrate contamination (KDHE 2008a).

In 2008-2009, to address the carbon tetrachloride contamination detected on its former property, the CCC/USDA implemented a source area cleanup in accord with the document *Interim Measure Work Plan/Design for Agra, Kansas* (IMWP/D; Argonne 2008). The cleanup involves five large-diameter boreholes (LDBs) coupled with soil vapor extraction (SVE) and air sparge

(AS) systems. The work plan was approved by the Kansas Department of Health and Environment (KDHE) in November 2008 (KDHE 2008b), and operation began in May 2009.

Quarterly progress reports for October-December 2008, January-March 2009, and April-June 2009 (Argonne 2009a,b,c) provided detailed information regarding construction and start-up of the cleanup, including the following milestones:

- Construction of the LDB/SVE/AS system, completed on January 7, 2009.
- Pilot testing of the LDB/SVE/AS system on February 11, 2009.
- Start-up of the SVE and AS systems on May 29, 2009.
- Initial operations, maintenance, and monitoring (OMM) sampling event on June 23, 2009.

Previous periodic monitoring reports (Argonne 2010a,b,c,d, 2011a,b,c, 2012, 2013a,b,c, 2014a,b, 2015a,b, 2016a,b, 2018) have tracked the subsequent progress of the cleanup effort. Data for evaluation of system performance are collected primarily by sampling SVE effluents, soil gas monitoring points, and groundwater wells for analysis for volatile organic compounds (VOCs). Table 1.1 provides a detailed chronological summary of activities during implementation of the cleanup.

Monitoring is continuing on the established monthly and quarterly schedule, but reporting is now on a twice-yearly schedule (January-June and July-December), as approved by the KDHE (2011).

The current report presents the data generated during OMM activities in July-December 2017.

TABLE 1.1 Activity log for the LDB/SVE/AS system at the former CCC/USDA grain storage facility.

Date	Event	Repair and Maintenance Notes
January 7, 2009	Installation of the five LDBs and associated SVE and AS wells, initiated in December 2008.	–
January 16, 2009	Initial testing of the SVE wells and one AS well to (1) verify installation and operation to design protocols and (2) obtain data for design completion.	–
January 19-27, 2009	Trenching and installation of SVE/AS piping.	–
January 28, 2009	Preliminary sampling of off-gas vapor from LDB1 and LDB5 to verify removal of carbon tetrachloride from the subsurface.	–
February 11, 2009	Pilot testing of the AS wells.	–
February 20-March 2, 2009	Selection and procurement of the equipment and control trailer.	–
March 16, 2009	Completion of the LDB wellhead installations.	–
March 16, 2009	Testing of soils excavated from the LDBs and leveling of the landfarm area.	–
May 9, 2009	Total depth measurement.	12 ft of sediment at base of well AS-5. Attempt to lower video camera into well is stopped at 5 ft BGL because of misalignment of casing connections for air flow lines.
May 13-16, 2009	Installation of five groundwater monitoring wells and three clusters of soil gas monitoring wells (six wells).	–
May 18-19, 2009	Site visit by Argonne.	Trenching repaired to correct subsidence during the winter.
May 19-20, 2009	Installation of groundwater level transducers and soil gas pressure/vacuum sensors, respectively, in the new groundwater and soil gas monitoring wells.	–
May 21, 2009	Baseline sampling of the newly installed monitoring wells.	–
May 27-29, 2009	Installation of the instrumentation trailer and monitoring equipment.	–
May 28, 2009	Initial tilling of the landfarm.	Near-surface connections in SVE and AS lines repaired. Sediment air-lifted from SVE and AS lines. Air flow reestablished.
May 29, 2009	Start-up of the SVE and AS systems.	–

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
June 23, 2009	Initial OMM sampling event by GreenField.	Wellheads painted. SVE-1, SVE-2, SVE-5 ball valves broken; need to be replaced.
July 29-30, 2009	Monthly OMM event by GreenField.	Ball valves replaced.
July 30, 2009	Bi-monthly soil gas sampling by Argonne.	–
August 5, 2009	Issuance of <i>Final Remedial Report</i> by GreenField, for installation of the LDB/SVE/AS system.	–
August 28, 2009	Quarterly OMM event by GreenField.	AS hour meter not working.
August 31, 2009	Telemeter test transmission.	–
September 11, 2009	First daily telemeter transmission.	–
September 18, 2009	Quarterly groundwater sampling and bi-monthly soil gas sampling by Argonne.	–
September 23, 2009	Monthly OMM event by GreenField.	No air flow in AS-5. AS hour meter not working.
October 27, 2009	Servi-Tech installation of groundwater extraction well on Pro-Ag Marketing property.	–
October 27, 2009	Tilling of the landfarm in preparation for closure.	–
October 28, 2009	Monthly OMM event by GreenField.	No air flow in AS-5. AS and SVE hour meters not recording.
November 3, 2009	Quarterly groundwater sampling by Argonne.	–
November 6, 2009	Sampling of the landfarm.	–
November 17, 2009	Argonne observation of Servi-Tech extraction well testing.	–
November 25, 2009	Bi-monthly soil gas sampling by Argonne.	–
November 27, 2009	Quarterly OMM event by GreenField.	AS system deactivated because of worn sparge blower vanes. AS and SVE hour meters not working. No flow in AS-5.
December 13, 2009	Quarterly groundwater sampling by Argonne.	–
December 15, 2009	KDHE approval of landfarm closure.	–
December 18, 2009	Conference call Argonne-GreenField-Geotech regarding overall system performance.	–

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
December 23, 2009	Monthly OMM event by GreenField.	AS blower vanes replaced; operation restored. Timer set for 4 hr on, 4 hr off. Low flow in AS-5.
January 13, 2010	Site visit by GreenField.	SVE and AS hour meters replaced.
January 15, 2010	Six-month system performance review by GreenField.	–
January 28, 2010	Monthly OMM event by GreenField.	No air flow in AS-5.
February 12, 2010	Bi-monthly soil gas sampling by Argonne.	–
February 25, 2010	Quarterly OMM event by GreenField.	No air flow in AS-5.
March 23, 2010	Bi-monthly soil gas sampling and quarterly groundwater sampling by Argonne.	–
March 23, 2010	Monthly OMM event by GreenField.	No air flow in AS-5.
April 28, 2010	Site visit by Argonne and GreenField.	AS-2 and AS-5 wells redeveloped. Video inspection of these wells attempted. Sediment removed by air-lifting.
April 29, 2010	Monthly OMM event by GreenField.	–
May 27, 2010	Quarterly OMM event by GreenField.	No air flow in AS-5.
May 27, 2010	Quarterly soil gas sampling by Argonne.	–
June 16, 2010	Quarterly groundwater sampling by Argonne.	–
June 22, 2010	Monthly OMM event by GreenField.	No air flow in AS-5.
July 28, 2010	Monthly OMM event by GreenField.	No air flow in AS-5.
August 5, 2010	Site visit by Argonne.	AS-5 sparge well inspected to evaluate flow; sediment removed by air-lifting.
August 20, 2010	Telemetry report.	AS system shut down due to blower malfunction.
August 27, 2010	Quarterly OMM event by GreenField.	AS off; vanes broken. Old vanes removed; unit cleaned.
September 16, 2010	Quarterly soil gas and groundwater sampling by Argonne.	–
September 28, 2010	Monthly OMM event by GreenField.	AS off; vanes and filters faulty.
October 6, 2010	Site visit by GreenField.	Rotary vanes in AS blower replaced; AS system reactivated.

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
October 12, 2010	Closure of the landfarm.	–
October 28, 2010	Monthly OMM event by GreenField.	AS-1 wellhead pad hit by farm tractor; line damaged; deactivated. No air flow in AS-5.
November 19, 2010	Quarterly OMM event by GreenField.	AS-1 inactive because of damage. AS vanes replaced. No air flow in AS-5.
December 16, 2010	Quarterly soil gas and groundwater sampling by Argonne.	–
December 16, 2010	Site visit by Argonne.	1-in.-diameter riser and screen inserted inside the 2-in. casing of the AS-5 well to prevent sediment flow into the screen. Air flow restored.
December 27, 2010	Monthly OMM event by GreenField.	AS-1 inactive because of damage. Air flowing in AS-5.
January 13-14, 2011	Site visit by Argonne.	Repair of the AS-1 wellhead (damaged by farm equipment in fall 2010). Air flowing in AS-5 after successful repair.
February 2, 2011	Monthly OMM event by GreenField.	AS-1 wellhead pad under construction.
March 1, 2011	Quarterly OMM event by GreenField.	AS-1 wellhead pad under construction. AS vanes worn; system deactivated. Low pressure in AS-2.
March 16, 2011	Quarterly soil gas and groundwater sampling by Argonne.	Vanes replaced; AS system operation restored.
March 29, 2011	Monthly OMM event by GreenField.	SVE-1 and AS-1 wellheads covered with dirt because of farm activity; no pressure readings. Little to no pressure in AS-2; leak not found.
April 27, 2011	Monthly OMM event by GreenField.	No pressure in AS-2. Line deactivated.
May 25, 2011	Quarterly OMM event by GreenField.	Standing water over AS-1 wellhead; unable to read pressure. Flooding at GW1, GW3, GW4; unable to sample or measure water levels. AS system deactivated.
June 6-7, 2011	Quarterly soil gas and groundwater sampling by Argonne.	–
August 4, 2011	Telemetry report.	Last telemetry report before a lightning strike interrupts transmittals. AS system inactive.
August 30, 2011	Monthly OMM event by GreenField (first monthly event under second contract).	Well pads covered with soil/mud because of farm work and rain. No pressure and vacuum readings or water level measurements. AS system inactive. Flow meter faulty.

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
September 14, 2011	KDHE approval for twice-yearly reporting.	–
September 26, 2011	Monthly OMM event by GreenField.	AS system inactive; vanes and filters faulty.
October 5, 2011	Quarterly soil gas and groundwater sampling by Argonne.	–
October 6, 2011	Site visit by GreenField.	AS vanes replaced; system reactivated.
October 27, 2011	Quarterly OMM event by GreenField (first quarterly event under second contract).	DO meter down; water level probe too large for 1-in. wells; no readings. AS-2 line down; low pressure.
November 11, 2011	Site visit by Argonne and GreenField.	System evaluation and repairs (including AS-2 leaks). Field testing to determine changes in operational strategy for optimization of system performance.
November 28, 2011	Monthly OMM event by GreenField.	No flow in AS-5. Inspection indicates need for high-volume, high-pressure AS compressor.
December 14, 2011	Quarterly soil gas and groundwater sampling by Argonne.	–
December 29, 2011	Monthly OMM event by GreenField.	Air leaks at AS-2 and AS-5 wellheads repaired. No flow in AS-5.
January 26, 2012	Quarterly OMM event by GreenField.	New Sensaphone installed. Low flow in AS-5; ball valve installed. AS vanes replaced.
January 27, 2012	First telemetry report after system replacement.	–
February 21, 2012	Monthly OMM event by GreenField.	Low flow in AS-5.
March 14, 2012	Quarterly soil gas and groundwater sampling by Argonne.	–
March 29, 2012	Monthly OMM event by GreenField.	Low flow in AS-5.
April 26, 2012	Quarterly OMM event by GreenField.	AS vanes replaced. Low flow in AS-5.
April 30, 2012	Telemetry report.	AS system stopped.
May 7-11, 2012	Site visit by GreenField.	System upgrades. Installation of larger AS blower, rewiring. Installation of new valves, relays, timers. AS system restarted.
May 31, 2012	Monthly OMM event by GreenField.	Replaced broken cap on SVE-1. AS-1 and AS-2 set to operate continuously; AS-3, AS-4, AS-5 operate alternately. AS relief valve might need replacement.

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
June 27, 2012	Quarterly soil gas and groundwater sampling by Argonne.	–
June 28, 2012	Monthly OMM event by GreenField.	AS relief valve plumbed shut.
July 31, 2012	Quarterly OMM event by GreenField.	AS-5 female adaptor cracked at the wellhead.
August 31, 2012	Monthly OMM event by GreenField.	–
September 27, 2012	Monthly OMM event by GreenField.	Limited testing of mounding at SVE-3, SVE-4, and SVE-5 due to cyclic operation. AS-5 female adaptor cracked and leaking.
October 18, 2012	Quarterly soil gas and groundwater sampling by Argonne.	–
October 30, 2012	Quarterly OMM event by GreenField.	Replaced faulty ball valve for SVE-5 sampling port on SVE manifold. AS system deactivated; vanes and filters faulty.
December 1, 2012	Monthly OMM event by GreenField.	AS system off; vanes and filters faulty.
December 28, 2012	Monthly OMM event by GreenField.	AS system off; vanes and filters faulty.
January 16, 2013	Quarterly soil gas and groundwater sampling by Argonne (for the October-December 2012 quarter).	AS blower vanes replaced; operation restored.
February 1, 2013	Quarterly OMM event by GreenField.	–
February 20, 2013	Site visit by Argonne.	Leak in AS-5 repaired; returned to service the same day.
February 28, 2013	Monthly OMM event by GreenField.	–
March 26, 2013	Monthly OMM event by GreenField.	–
April 2-3, 2013	Quarterly soil gas and groundwater sampling by Argonne (for the January-March 2013 quarter).	–
April 26, 2013	Quarterly OMM event by GreenField.	Brief shutdown of AS system for servicing recorded by telemetry.
May 30, 2013	Monthly OMM event by GreenField.	–
June 27, 2013	Monthly OMM event by GreenField.	–
July 10-11, 2013	Quarterly soil gas and groundwater sampling by Argonne (for the April-June 2013 quarter).	–

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
August 1, 2013	Quarterly OMM event by GreenField.	AS blower vanes replaced. Cracking noted in AS-5 flow meter adaptor.
August 30, 2013	Monthly OMM event by GreenField.	—
September 16-17, 2013	Quarterly soil gas and groundwater sampling by Argonne.	—
September 27, 2013	Monthly OMM event by GreenField.	—
October 29, 2013	Quarterly OMM event by GreenField.	—
November 20 and 25, 2013	Quarterly soil gas and groundwater sampling by Argonne.	—
December 2, 2013	Monthly OMM event by GreenField.	—
December 28, 2013	Monthly OMM event by GreenField.	Cracking noted in base of AS-1 flow meter.
January 31, 2014	Quarterly OMM event by GreenField.	Brief shutdown of AS and SVE systems for servicing; recorded by telemetry. AS vanes and filters replaced.
February 25-26, 2014	Quarterly soil gas and groundwater sampling by Argonne.	AS-5 well redeveloped; AS-5 well line leak-tested.
February 26, 2014	Monthly OMM event by GreenField.	Flow meters on AS-1 and AS-5 replaced.
March 27, 2014	Monthly OMM event by GreenField.	SVE blower operation evaluated. SVE lines and wellhead leak-tested.
April 30, 2014	Quarterly OMM event by GreenField.	—
May 27, 2014	Monthly OMM event by GreenField.	—
June 25 and 27-28, 2014	Quarterly soil gas and groundwater sampling by Argonne.	Damage noted at monitoring wells KMW02, MW02, and PMW-10.
June 26, 2014	Monthly OMM event by GreenField.	—
August 1, 2014	Quarterly OMM event by GreenField.	AS vanes and filters replaced. Faulty flow meter noted on AS-4.
August 28, 2014	Monthly OMM event by GreenField.	—
September 29, 2014	Monthly OMM event by GreenField.	—
September 30, 2014	Quarterly soil gas and groundwater sampling by Argonne.	—
October 1-2, 2014	Site visit by Argonne.	Damage to monitoring wells MW02 and PMW-10 repaired.

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
October 29, 2014	Quarterly OMM event by GreenField.	Flow meter on AS-4 repaired.
November 26, 2014	Monthly OMM event by GreenField.	–
December 2, 2014	Quarterly soil gas and groundwater sampling by Argonne.	–
December 31, 2014	Monthly OMM event by GreenField.	Brief shutdown of AS and SVE systems for servicing; recorded by telemetry.
January 23, 2015	Quarterly OMM event by GreenField.	AS vanes and filters replaced.
February 27, 2015	Monthly OMM event by GreenField.	–
March 27, 2015	Twice-yearly soil gas and quarterly groundwater sampling by Argonne.	–
April 1, 2015	Monthly OMM event by GreenField.	–
April 30, 2015	Quarterly OMM event by GreenField.	–
May 30, 2015	Monthly OMM event by GreenField.	–
June 29, 2015	Monthly OMM event by GreenField.	–
June 30, 2015	Quarterly groundwater sampling by Argonne.	–
July 28, 2015	Quarterly OMM event by GreenField.	AS vanes and filters replaced.
August 27, 2015	Monthly OMM event by GreenField.	–
September 29, 2015	Monthly OMM event by GreenField.	–
October 14-16, 2015	Twice-yearly soil gas and quarterly groundwater sampling by Argonne.	–
October 29, 2015	Quarterly OMM event by GreenField.	–
December 1, 2015	Monthly OMM event by GreenField.	–
January 2, 2016	Monthly OMM event by GreenField.	–
January 6, 2016	Quarterly groundwater sampling by Argonne.	–
January 29, 2016	Quarterly OMM event by GreenField.	–
February 18, 2016	Baseline sampling for temporary SVE/AS system shutdown by Argonne.	SVE/AS system temporarily deactivated for supplemental testing and sampling purposes.

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
March 16-17, 2016	Twice-yearly soil gas sampling, quarterly groundwater sampling, and 1-month post-shutdown sampling by Argonne.	–
April 29, 2016	Quarterly OMM event by GreenField.	–
July 28-29, 2016	Quarterly groundwater sampling and 5-month post-shutdown sampling by Argonne.	–
July 28, 2016	Quarterly OMM event by GreenField.	–
September 20, 2016	Sampling upon SVE/AS system restart by Argonne.	SVE/AS system restarted after conclusion of supplemental testing and sampling.
September 27, 2016	One-week post-restart sampling by Argonne.	–
September 29, 2016	Monthly OMM event by GreenField.	–
October 18, 2016	Twice-yearly soil gas sampling, quarterly groundwater sampling, and 1-month post-restart sampling by Argonne.	–
October 28, 2016	Quarterly OMM event by GreenField.	AS vanes and filters replaced.
November 29, 2016	Monthly OMM event by GreenField.	–
December 6-7, 2016	Quarterly groundwater sampling by Argonne.	–
December 29, 2016	Monthly OMM event by GreenField.	–
January 30, 2017	Quarterly OMM event by GreenField.	–
February 23, 2017	Monthly OMM event by GreenField.	–
March 6-8, 2017	Twice-yearly soil gas sampling and quarterly groundwater sampling by Argonne.	–
April 3, 2017	Monthly OMM event by GreenField.	–
April 27, 2017	Quarterly OMM event by GreenField.	–
May 30, 2017	Monthly OMM event by GreenField.	–
June 25-July 6, 2017	Quarterly groundwater sampling by Argonne.	–
June 28, 2017	Monthly OMM event by GreenField.	–
August 1, 2017	Quarterly OMM event by GreenField.	–

TABLE 1.1 (Cont.)

Date	Event	Repair and Maintenance Notes
August 24, 2017	Monthly OMM event by GreenField.	–
September 28, 2017	Monthly OMM event by GreenField.	AS vanes and filters replaced. AS-4 flowmeter and AS-5 well plug replaced.
October 17-18, 2017	Twice-yearly soil gas sampling and quarterly groundwater sampling by Argonne.	–
October 28, 2017	Quarterly OMM event by GreenField.	–
November 28, 2017	Monthly OMM event by GreenField.	–
December 14-18, 2017	Quarterly groundwater sampling by Argonne.	–
December 29, 2017	Monthly OMM event by GreenField.	–

2 LDB/SVE/AS System Description and Monitoring Schedule

2.1 LDB/SVE/AS System Description

To mitigate localized carbon tetrachloride contamination in the vadose zone soils at the former CCC/USDA facility and to eliminate ongoing soil-to-groundwater contamination, a cleanup response consisting of LDBs coupled with AS and SVE was implemented. With the installation of five LDBs, soils contaminated with carbon tetrachloride above the KDHE Tier 2 risk-based screening level of 200 µg/kg were effectively removed from the contaminant source area and treated via tilling in the associated landfarm in 2008-2009. The LDBs were backfilled with sand, creating a relatively porous sump for removal of VOCs, as compared to the native silts and clays.

In each LDB, an AS well and an SVE well were installed in and above the saturated zone, respectively. The AS system injects pressurized air into the groundwater. As VOCs are stripped from the groundwater, they enter the extraction zone and are removed by the SVE system. Figure 2.1 shows the locations of the LDB/SVE/AS installations at the former CCC/USDA grain storage facility, along with the soil gas and groundwater monitoring well network established to provide data for evaluation of the long-term effectiveness of the cleanup measure. Figure 2.2 illustrates the internal construction of the LDB/SVE/AS systems in the LDB wells, along with the designed pattern of air flow in the systems. Figure 2.3 shows the configuration of the compressed air and vacuum lines in the equipment trailer.

2.2 LDB/SVE/AS System Monitoring Schedule

Currently, OMM activities are conducted daily, monthly, and quarterly. Table 2.1 summarizes the OMM and reporting requirements for the SVE/AS system at Agra, as specified in the approved IMWP/D (Appendix F in Argonne 2008).

2.2.1 Daily OMM Activities

The automated telemetry system, which became operational on August 31, 2009, provides a daily system status summary to the GreenField office (copied to Argonne).

2.2.2 Monthly OMM Activities

Monthly monitoring by GreenField is occurring approximately every 30 days following system start-up on May 29, 2009. Operational parameters such as manifold and wellhead vacuum, pressure and flow readings, and air dilution flow rates are collected. Extracted soil vapor samples are collected with an appropriate sample pump and analyzed with field testing instrumentation for oxygen, carbon dioxide, and VOCs concentrations. Routine maintenance, such as greasing blowers and changing filters, is conducted as necessary.

2.2.3 Quarterly OMM Activities

Quarterly sampling events by GreenField and by Argonne are occurring approximately every 90 days, following system start-up on May 29, 2009. Well completion information for the sampled wells is summarized in Table 2.2.

Each quarter, Argonne samples groundwater monitoring wells GW1, GW2, GW3, GW4, GW5, MW-J, MW-P, and KMW03, as proposed in the IMWP/D (Argonne 2008). The samples are shipped overnight to the Applied Geosciences and Environmental Management (AGEM) Laboratory, Argonne, Illinois, and analyzed for VOCs by using modified U.S. Environmental Protection Agency (EPA) Method 524.2. Three of the groundwater wells (GW1, GW3, and GW4) are also sampled quarterly by GreenField for laboratory analysis. Dissolved oxygen (DO) levels are recorded quarterly in monitoring wells near the LDB installations.

Air samples are collected quarterly by GreenField from the five SVE wells and from the SVE effluent. These samples are submitted to an outside laboratory for analysis for carbon tetrachloride, chloroform, and 1,2-dichloroethane (1,2-DCA) by EPA Method TO-15.

Twice-yearly sampling of soil gas monitoring points SG1S, SG1D, SG2S, SG2D, SG3S, and SG3D is conducted by Argonne, with analysis by TestAmerica Laboratories, Inc., South Burlington, Vermont, according to EPA Method TO-15. Prior quarterly sampling was reduced to twice-yearly sampling after approval by the KDHE (2015b).

TABLE 2.1 Itemized OMM summary for the SVE/AS system at Agra.

Frequency	Items	Data and Analysis	Conducted by
<i>Preventive OMM and Troubleshooting</i>			
Weekly, as needed	Visit site to identify and solve problems indicated by abnormal operating conditions observed remotely.	As needed.	GreenField
<i>Monthly OMM</i>			
Monthly	(1) Check/repair equipment, gauges, filters, hour meters, record readings.	Collect operation parameters.	GreenField
Monthly	(2) Measure/record wellhead vacuum and pressure readings for all SVE and AS wells.	Record vacuum and pressure readings.	GreenField
Monthly	(3) Record and adjust (if necessary) well flow rates.	Record flow readings.	GreenField
Monthly	(4) Measure water level from SVE and AS wells.	Record water level readings.	GreenField
Monthly	(5) Collect air samples from 5 individual SVE wells.	Field-screen air samples for VOCs (photo-ionization detector [PID] or others) and oxygen (oxygen meter).	GreenField
Monthly	(6) Collect air samples from effluent lines.		GreenField
Monthly	(7) Conduct manufacturer-recommended maintenance.	Document maintenance.	GreenField
<i>Quarterly OMM</i>			
Quarterly	(1) Perform monthly OMM shown above.	As above.	GreenField
Quarterly	(2) Measure/record wellhead vacuum and pressure readings for MW-P, GW1, GW2, GW3, GW4, and GW5.	Record all vacuum and pressure readings.	GreenField
Quarterly	(3) Gauge, purge, and sample wells MW-J, MW-P, KMW03, GW1, GW2, GW3, GW4, and GW5.	Field measurement for DO.	Argonne
Quarterly	(4) Collect air effluent samples from 5 SVE wells.	Lab analysis for VOCs.	GreenField
<i>Soil Gas Monitoring</i>			
Baseline Measurement Once	(1) Collect soil gas sample from all probes prior to system start-up.	Lab analysis for VOCs.	Argonne
Continuous Monitoring 1-4 hr Twice-yearly	(1) Automatically record pressures at all probes. (2) Collect soil gas from all probes. Change from quarterly reporting was approved by KDHE (2015b).	Record pressure readings. Lab analysis for VOCs.	Argonne Argonne
<i>Soil Verification Sampling</i>			
Once	Collect vertical-profile soil samples adjacent to LDBs to determine whether cleanup standards have been met.	Lab analysis for VOCs.	Argonne

TABLE 2.1 (Cont.)

Frequency	Items	Data and Analysis	Conducted by
<i>Reporting</i>			
Quarterly	Provide a summary of all monthly and quarterly data generated by GreenField.	System parameters and field measurements.	GreenField
Twice-yearly	Develop report including GreenField and Argonne data for January-June and for July-December each year. Change from quarterly reporting was approved by the KDHE (2011).	Soil gas field parameters and laboratory results; report production.	Argonne

TABLE 2.2 Construction details for soil gas and groundwater wells sampled to monitor the LDB/SVE/AS system at Agra.

Well	Casing Diameter (in.)	Depth (ft BGL)		
		Screen Interval	Filter Pack Interval	Well Depth
GW1	1	43-53	41-53	53
GW2	1	43-53	41-53	53
GW3	1	43-53	41-53	53
GW4	1	43-53	41-53	53
GW5	1	43-53	41-53	53
SG1S	1	20-21	18-21	21
SG1D	1	29-30	27-30	30
SG2S	1	20-21	18-21	21
SG2D	1	29-30	27-30	30
SG3S	1	20-21	18-21	21
SG3D	1	29-30	27-30	30
KMW03 ^a	2	74-89	NR ^b	89
MW-J ^a	2	54-66	54-66	66
MW-P ^a	2	39.5-59	34-59	59

^a Information from WWC-5 Water Well Record forms.

^b NR, not recorded.

FIGURE 2.1 Locations of the LDB/SVE/AS installations at the former CCC/USDA grain storage facility at Agra, Kansas.

FIGURE 2.2 Internal construction of the LDB/SVE/AS system in each LDB installation, along with the designed pattern of air flow within the system.

FIGURE 2.3 The compressed air and vacuum lines in the SVE/AS equipment trailer.

3 OMM Activities in This Reporting Period

Operation, maintenance, and monitoring activities for the current reporting period included the following:

- August 1, 2017 — Quarterly OMM Event by GreenField
- August 24, 2017 — Monthly OMM Event by GreenField
- September 28, 2017 — Monthly OMM Event by GreenField
- October 17-18, 2017 — Twice-Yearly Soil Gas and Quarterly Groundwater Sampling by Argonne
- October 28, 2017 — Quarterly OMM Event by GreenField
- November 28, 2017 — Monthly OMM Event by GreenField
- December 14-18, 2017 — Quarterly Groundwater Sampling by Argonne
- December 29, 2017 — Monthly OMM Event by GreenField

3.1 August 1, 2017 — Quarterly OMM Event by GreenField

On August 1, 2017, GreenField conducted a quarterly OMM event. During this event, general maintenance was conducted on the SVE and AS systems.

SVE-1 and SVE-2 now operate continuously, while SVE-3, SVE-4, and SVE-5 are operated on a pulsed schedule, as reported previously (Argonne 2013b). Parameters are collected while SVE-1, SVE-2, and SVE-3 are operating. On August 1, 2017, the SVE system was operating at an average pre-filter vacuum of 59.0 in. of water and an average manifold flow rate of 150 scfm (standard cubic feet per minute) with the air dilution valve closed. Monitoring activities for the SVE vapors included measuring VOCs, carbon dioxide, and oxygen concentrations on the

SVE manifold and on each individual well line. Oxygen concentrations were 20.9% of extract air. Carbon dioxide was at non-detectable levels.

On August 1, 2017, the AS system was operating at a pressure of 17.1 psi (pounds per square inch) and a cumulative air flow rate of 11 scfm. Pressure in the AS wellheads ranged from 3.42 psi to > 10 psi. Air flow rates in the AS lines at the manifold were 2.5-5.0 scfm.

Groundwater samples collected at treatment area wells GW1, GW3, and GW4 were analyzed for carbon tetrachloride, chloroform, and 1,2-DCA. Carbon tetrachloride was detected in all three samples, at concentrations of 47 µg/L (GW1), 1,130 µg/L (GW3), and 218 µg/L (GW4). Chloroform was detected in two of the samples at concentrations of 5.5 µg/L (GW1) and 3.5 µg/L (GW4). Chloroform was not detected in GW3, and 1,2-DCA was not detected in any of the wells.

Vapor samples were collected from each SVE well line at the SVE manifold and from the SVE effluent stack for laboratory analysis of carbon tetrachloride, chloroform, and 1,2-DCA by EPA Method TO-15. Carbon tetrachloride was detected in four out of six samples, at concentrations of 144 µg/m³ (SVE-3), 15 µg/m³ (SVE-4), 378 µg/m³ (SVE-5), and 44 µg/m³ (SVE effluent). Chloroform and 1,2-DCA were not detected above the method detection limits in any of the vapor samples, with the exception of the samples from SVE-3 and SVE-5, which contained chloroform at concentrations of 1.9 µg/m³ and 3.4 µg/m³, respectively.

The GreenField report for the quarterly OMM event on August 1, 2017, with associated field notes and field measurements, is in Supplement 1, on the compact disc (CD) inside the back cover of this report.

3.2 August 24, 2017 — Monthly OMM Event by GreenField

On August 24, 2017, GreenField conducted a monthly OMM event. SVE-1, SVE-2, and SVE-3 and AS-1, AS-2, and AS-3 were in operation. The SVE system was operating at a cumulative air flow rate of 150 scfm and at a vacuum of 63.2 in. of water. The SVE wellhead vacuum readings were 2.9-7.5 in. of water. The AS system was operating at a pressure of 16 psi and a cumulative air flow rate of 9.8 scfm.

The GreenField report for the monthly OMM event on August 24, 2017, with associated field notes and field measurements, is in Supplement 2 (on CD).

3.3 September 28, 2017 — Monthly OMM Event by GreenField

On September 28, 2017, GreenField conducted a monthly OMM event. During this event, the ASP vanes and filters were replaced. In addition, the AS-4 flowmeter and AS-5 well plug were also replaced. SVE-1, SVE-2, and SVE-3 and AS-1, AS-2, and AS-3 were in operation. The SVE system was operating at a cumulative air flow rate of 150 scfm and at a vacuum of 64 in. of water. The SVE wellhead vacuum readings were 2.7-7.2 in. of water. The AS system was operating at a pressure of 14.5 psi and a cumulative air flow rate of 9.0 scfm.

The GreenField report for the monthly OMM event on September 28, 2017, with associated field notes and field measurements, is in Supplement 3 (on CD).

3.4 October 17-18, 2017 — Twice-Yearly Soil Gas and Quarterly Groundwater Sampling by Argonne

On October 17-18, 2017, Argonne conducted the quarterly soil gas and groundwater sampling for the July-September 2017 quarter; this event was delayed due to other commitments in the field during summer 2017.

Soil gas samples were collected in Summa canisters from each of three nested soil gas monitoring wells (SG1S, SG1D, SG2S, SG2D, SG3S, SG3D) for analysis by TestAmerica with EPA Method TO-15. A background vapor sample was also collected. For the samples analyzed, quality control limits were met for the contaminants of concern.

Sampling of groundwater monitoring wells GW1, GW2, GW3, GW4, GW5, MW-J, MW-P, and KMW03 was conducted using the low-flow procedure. The groundwater samples were shipped overnight to the AGEM Laboratory and analyzed for VOCs. Quality control samples collected to monitor sample handling activities (one field blank, and one trip blank) and method blanks analyzed with the samples to monitor analytical methodologies were all free of carbon tetrachloride and chloroform contamination. One equipment rinsate was collected but was not analyzed by the laboratory. Analysis of one field replicate (from GW2) by the AGEM Laboratory

showed good agreement, with a relative percent difference value of approximately 10% and 0% for carbon tetrachloride and chloroform, respectively, for detections above the method detection limit.

Verification analysis of three selected samples (from wells GW3 and MW-P, plus trip blank AGQCTB-W-39877) by TestAmerica supported the results from the AGEM Laboratory, with similar concentrations detected for carbon tetrachloride and chloroform between the initial analysis and the associated verification analysis for detections above the respective method detection limits. Neither laboratory detected carbon tetrachloride in trip blank AGQCTB-W-39338; TestAmerica found a trace detected of chloroform in trip blank AGQCTB-W-39338.

The tables in Appendix A summarize the sequence of soil gas and groundwater sampling activities, the analytical results, and the quality control data for the October 17-18, 2017, sampling event. The soil gas analytical data provided by TestAmerica as sample delivery group 200-40522 are in Supplement 4 (on CD). The groundwater analytical data provided by TestAmerica as sample delivery group 200-40524 are in Supplement 5 (on CD).

3.5 October 28, 2017 — Quarterly OMM Event by GreenField

On October 28, 2017, GreenField conducted a quarterly OMM event. During this event, general maintenance was conducted on the SVE and AS systems.

SVE-1 and SVE-2 now operate continuously, while SVE-3, SVE-4, and SVE-5 are operated on a pulsed schedule, as reported previously (Argonne 2013b). Parameters are collected while SVE-1, SVE-2, and SVE-3 are operating. On October 28, 2017, the SVE system was operating at an average pre-filter vacuum of 64.8 in. of water and an average manifold flow rate of 150 scfm (standard cubic feet per minute) with the air dilution valve closed. Monitoring activities for the SVE vapors included measuring VOCs, carbon dioxide, and oxygen concentrations on the SVE manifold and on each individual well line. Oxygen concentrations were 20.9% of extract air. Carbon dioxide was at non-detectable levels.

On October 28, 2017, the AS system was operating at a pressure of 14.5 psi (pounds per square inch) and a cumulative air flow rate of 11.5 scfm. Pressure in the AS wellheads ranged from 3.87 psi to > 10 psi. Air flow rates in the AS lines at the manifold were 1.8-8.5 scfm.

Groundwater samples collected at treatment area wells GW1, GW3, and GW4 were analyzed for carbon tetrachloride, chloroform, and 1,2-DCA. Carbon tetrachloride was detected in all three samples, at concentrations of 52 µg/L (GW1), 930 µg/L (GW3), and 150 µg/L (GW4). Chloroform was detected in all three samples at concentrations of 6.3 µg/L (GW1), 11 µg/L (GW3), and 4.2 µg/L (GW4). 1,2-DCA was not detected in any of the wells.

Vapor samples were collected from each SVE well line at the SVE manifold and from the SVE effluent stack for laboratory analysis of carbon tetrachloride, chloroform, and 1,2-DCA by EPA Method TO-15. Carbon tetrachloride was detected in all six samples, at concentrations of 8.8 µg/m³ (SVE-1), 7.5 µg/m³ (SVE-2), 55 µg/m³ (SVE-3), 14 µg/m³ (SVE-4), 311 µg/m³ (SVE-5), and 39 µg/m³ (SVE effluent). Chloroform and 1,2-DCA were not detected above the method detection limits in any of the vapor samples, with the exception of the sample from SVE-5, which contained chloroform at a concentration of 3.3 µg/m³.

The GreenField report for the quarterly OMM event on October 28, 2017, with associated field notes and field measurements, is in Supplement 6, on the compact disc (CD) inside the back cover of this report.

3.6 November 28, 2017 — Monthly OMM Event by GreenField

On November 28, 2017, GreenField conducted a monthly OMM event. SVE-1, SVE-2, and SVE-3 and AS-1, AS-2, and AS-3 were in operation. The SVE system was operating at a cumulative air flow rate of 150 scfm and at a vacuum of 66.7 in. of water. The SVE wellhead vacuum readings were 2.9-18.9 in. of water. The AS system was operating at a pressure of 11.5 psi and a cumulative air flow rate of 17 scfm.

The GreenField report for the monthly OMM event on November 28, 2017, with associated field notes and field measurements, is in Supplement 7 (on CD).

3.7 December 14-18, 2017 — Quarterly Groundwater Sampling by Argonne

On December 14-18, 2017, Argonne conducted the quarterly groundwater sampling for the October-December 2017 quarter.

Prior quarterly soil gas sampling was reduced to twice-yearly sampling beginning in the January-June 2015 monitoring period following approval by the KDHE (2015b). Soil gas samples for the July-December 2017 period were collected during the October 17-18, 2017, monitoring event discussed in Section 3.4.

Sampling of groundwater monitoring wells GW1, GW2, GW3, GW4, GW5, MW-J, MW-P, and KMW03 was conducted using the low-flow procedure. The groundwater samples were shipped overnight to the AGEM Laboratory and analyzed for VOCs. Quality control samples collected to monitor sample handling activities (one equipment rinsate and one trip blank) and method blanks analyzed with the samples to monitor analytical methodologies were all free of carbon tetrachloride and chloroform contamination. One field replicate (from well KMW-03) by the AGEM Laboratory showed good agreement with its primary sample; neither carbon tetrachloride nor chloroform were detected in either analysis.

The groundwater samples collected during the December 14-18, 2017, quarterly monitoring event were analyzed by Pace Analytical Laboratory, because the AGEM Laboratory was not operating when the samples would have been received due to a routine winter closing. Therefore, selected samples were not sent for verification analysis by TestAmerica because Pace Analytical Laboratory is a KDHE-accredited environmental laboratory.

The tables in Appendix B summarize the sequence of groundwater sampling activities, the analytical results, and the quality control data for the quarterly sampling event on December 14-18, 2017.

3.8 December 29, 2017 — Monthly OMM Event by GreenField

On December 28, 2017, GreenField conducted a monthly OMM event. SVE-1, SVE-2, and SVE-3 and AS-1, AS-2, and AS-3 were in operation. The SVE system was operating at a cumulative air flow rate of 150 scfm and at a vacuum of 68.7 in. of water. The SVE wellhead vacuum readings were 2.4-19.7 in. of water. The AS system was operating at a pressure of 11.4 psi and a cumulative air flow rate of 15.7 scfm.

The GreenField report for the monthly OMM event on December 28, 2017, with associated field notes and field measurements, is in Supplement 8 (on CD).

3.9 Daily Telemetry Reports

The daily reports from the automated telemetry system for July-December 2017 are in Supplement 9 (on CD).

3.10 Continuous Soil Gas Pressure Monitoring

To monitor possible vacuum or pressure levels induced locally in the vadose zone soils, absolute pressure recorders were installed in May 2009 in soil gas monitoring points SG1S,D, SG2S,D, and SG3S,D. In addition, a barometric recorder for measurement of local atmospheric pressure fluctuations was placed in the aboveground well housing of nearby well MW-P. The measurements generated by these recorders in July-December 2017 are in Supplement 10 (on CD).

3.11 Continuous Water Level Monitoring

To monitor the detailed local effects of the treatment on groundwater levels, water level recorder units were installed at monitoring wells GW2, GW4, and GW5 in May 2009. These wells are roughly within, upgradient from, and downgradient from the area targeted for treatment. The measurements generated by this automatic monitoring in July-December 2017 are in Supplement 11 (on CD).

4 OMM Results in This Reporting Period

4.1 LDB/SVE/AS System Status

To address a point source of carbon tetrachloride contamination in soil and groundwater at the former CCC/USDA grain storage facility, an LDB/SVE/AS system was implemented in May 2009. Five LDBs (6 ft in diameter) were installed at the identified source area near the SB46 and SB49 locations investigated in 2005 (Argonne 2006). Each of the LDBs was extended to bedrock (approximately 60 ft BGL [below ground level]). A total of approximately 300 cubic yards of contaminated soil was removed from the areas of highest soil impacts. The five LDBs were completed as SVE wells by placing well screens within the permeable backfill. In addition, AS wells were completed to depths of approximately 55 ft BGL in the backfill of each LDB. The SVE/AS system was started in May 2009 and was operated continuously, with some interruptions of the AS system, throughout the initial 2-yr OMM contract with GreenField, from June 2009 to June 2011. The OMM contract with GreenField was extended in 2011 and again in 2013. Operation of the SVE/AS system and monitoring are continuing.

A review of system air flow rates (Table 4.1) and operating pressures (Table 4.2) shows that the system has operated generally within design specifications. Although favorable progress toward effective cleanup has been made, some operational difficulties have occurred, as noted in Table 1.1. The following issues have been discussed previously in greater detail:

- Persistent low flow at AS-5. Well AS-5 was repaired in late 2010 (Argonne 2011c) and again in February 2013 (Argonne 2013c).
- Damage to AS-1 resulting in well line deactivation in fall 2010. Well AS-1 was reconstructed in early 2011 (Argonne 2011c).
- Leaks in the AS-2 line. The leaks were addressed in November 2011 (Argonne 2012), when the lines were excavated and re-sealed. Field tests were also conducted to identify potential changes to optimize system effectiveness (Argonne 2013a,b). System evaluations are discussed in Section 5.

- Periodic shutdown of the AS system due to vane degradation and necessary replacement. A larger AS blower was installed in May 2012 to address this issue (Argonne 2013a,b), and increased oversight has improved the reliability of operation.
- In March 2014, the operation of the SVE blower was tested (Argonne 2014b). The SVE blower was determined to be operating correctly and to be capable of achieving a higher vacuum than the recorded operating levels.

Operation was continuous from January 16, 2013, to February 18, 2016, the date on which the temporary SVE/AS system shutdown was initiated. This testing was concluded on September 20, 2016, after which operation has continued uninterrupted.

4.2 LDB/SVE/AS System Performance Data

Data for evaluation of treatment system performance are collected primarily by sampling SVE effluents, soil gas monitoring points, and groundwater monitoring wells for VOCs analyses. The baseline data collected from soil gas and groundwater monitoring wells before system start-up showed a localized area of contamination, in which the concentrations of carbon tetrachloride ranged from 6,393 $\mu\text{g/L}$ (GW2) to 9,198 $\mu\text{g/L}$ (GW3) in groundwater and from 19,000 $\mu\text{g/m}^3$ (SG1D) to 6,900 $\mu\text{g/m}^3$ (SG3D) in soil gas. This localized hot-spot area is less than 30 ft in radius, near the center of the system of five AS/SVE installations, as illustrated in Figure 4.1.

The analytical data for the SVE effluent, soil gas, and groundwater samples collected since system start-up in May 2009 show that the initial high concentrations of carbon tetrachloride have moderated and declined significantly, although elevated concentrations (primarily in the SVE effluent concentrations) were again detected briefly following the unexpected shutdown of the AS system due to equipment malfunction from August 20, 2010, to October 6, 2010 (Argonne 2011a). Other AS system shutdowns occurred on May 25, 2011, to October 6, 2011, and on October 30, 2012, to January 16, 2013, with little clear impact on the observed concentrations. Most recently, the SVE/AS system was temporarily shut down for supplemental testing and sampling purposes during February 18, 2016, to September 20, 2016. The SVE, soil gas, and groundwater VOCs data are summarized in Tables 4.3-4.5. Dissolved oxygen levels in groundwater are reported in

Table 4.6. The groundwater analytical data for the current reporting period are illustrated in Figure 4.1.

4.3 Groundwater Level Data

Maps of the sitewide potentiometric surface, as interpreted from manual measurements made on October 17-18, 2017, and December 14-15, 2017, are shown in Figure 4.2a and Figure 4.2b, respectively. Maps of the treatment area potentiometric surface on the same dates are shown in Figures 4.3a and 4.3b. For consistency, the contours in the treatment area maps were created by taking into account data for all of the sitewide wells in Figure 4.2a,b. Location coordinates for the wells shown are in Appendix C, Table C.1. Selected sitewide manual water level measurements since 2009 are in Table C.2.

TABLE 4.1 Operating flow rates for the SVE and AS systems.

Monitoring Date	SVE Vacuum (in. water)	Air Flow Rate (scfm)					SVE Cumulative
		SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	
Design Values	51						160
05/29/09	46.0	40	40	40	50	40	210
06/23/09	42.9	66	59	77	47	63	312
07/29/09	40.5	36	37	45	48	33	199
08/28/09	39.4	30	40	40	50	30	190
09/23/09	38.9	60	62	61	45	40	268
10/28/09	38.4	40	23	27	42	44	176
11/27/09	38.9	35	78	89	43	42	287
12/23/09	36.0	38	30	38	45	41	192
01/28/10	39.8	56	21	19	44	14	154
02/25/10	45.0	39	45	36	47	31	198
03/23/10	40.1	47	58	42	42	40	229
04/29/10	41.4	51	71	35	35	35	227
05/27/10	43.4	20	20	40	40	35	155
06/22/10	43.8	59	73	41	40	35	248
07/28/10	38.9	44	69	39	38	44	234
08/27/10	39.1	35	49	35	35	50	204
09/28/10	35.5	43	44	56	52	52	247
10/28/10	26.4	31	55	28	26	54	194
11/19/10	23.6	39	56	37	34	53	219
12/27/10	22.4	44	62	40	38	60	244
02/02/11	26.7	30	51	52	35	45	213
03/01/11	27.8	40	44	42	42	60	228
03/29/11	27.3	40	40	40	40	40	200
04/27/11	28.0	45	40	48	38	38	209
05/25/11	43.8	30	35	45	45	30	185
08/30/11	35.6	<40	<40	<40	42	42	<207
09/26/11	27.7	35	48	42	35	50	210
10/27/11	26.7	38	47	42	40	50	217
11/28/11	33.7	35	50	50	35	40	210
12/29/11	28.3	46	40	40	40	46	248
01/26/12	31.0	40	50	42	40	40	212
02/21/12	32.8	35	40	40	35	35	185
03/29/12	32.1	35	45	40	40	40	200
04/26/12	31.6	40	45	40	45	40	210
05/31/12	40.5	40	40	100	a	a	240
06/28/12	41.3	40	40	95	a	a	175
07/31/12	45.5	40	40	95	95	95	175
08/31/12	44.5	40	45	90	a	a	175
09/27/12	43.8	45	45	90	a	a	180
10/30/12	41.3	50	50	90	90	90	190
12/01/12	39.7	47	50	96	a	a	193
12/28/12	40.6	45	47	107	a	a	199
02/01/13	39.0	48	47	105	67	70	200
02/28/13	36.7	50	40	105	a	a	195
03/26/13	38.0	50	40	120	a	a	210
04/26/13	26.9	40	40	40	40	40	200
05/30/13	35.9	60	65	60	a	a	185
06/27/13	32.2	60	60	85	a	a	205
08/01/13	35.0	50	50	80	80	80	180
08/30/13	35.6	50	50	85	a	a	185

TABLE 4.1 (Cont.)

Monitoring Date	SVE Vacuum (in. water)	Air Flow Rate (scfm)					SVE Cumulative
		SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	
09/27/13	60.7	40	40	40	40	39	151
10/29/13	22.2	44	41	40	40	40	180
12/02/13	41.5	40	40	100	a	a	180
12/28/13	41.5	45	45	100	a	a	190
01/31/14	40.3	45	45	106	77	105	196
02/26/14	40.2	45	45	105	a	a	195
03/27/14	42.4	50	50	85	a	a	185
04/30/14	41.7	50	50	85	a	a	185
05/27/14	39.4	50	50	83	a	a	183
06/26/14	41.1	50	50	81	a	a	181
08/01/14	41.7	50	50	78	90	91	178
08/28/14	44.8	50	50	75	a	a	175
09/29/14	43.1	50	50	77	a	a	177
10/29/14	43.1	50	50	81	95	95	181
11/26/14	44.7	50	50	80	a	a	180
12/31/14	43.2	50	50	83	a	a	183
01/23/15	41.9	53	53	80	100	100	186
02/27/15	47.7	50	50	80	a	a	180
04/01/15	46.2	50	50	95	a	a	195
04/30/15	45.6	50	50	76	105	103	176
05/30/15	48.9	50	50	75	a	a	175
06/29/15	46.1	50	50	75	a	a	175
07/28/15	47.4	50	50	73	89	94	173
08/27/15	31.4	50	50	50	a	a	150
09/29/15	30.7	50	50	53	a	a	153
10/29/15	31.0	50	50	54	70	70	154
12/01/15	32.7	50	50	55	a	a	160
01/02/16	32.6	50	50	50	a	a	150
01/29/16	32.6	40	50	50	55	55	140
04/29/16	b	b	b	b	b	b	b
07/28/16	b	b	b	b	b	b	b
09/29/16	66.4	55	55	65	off	off	175
10/27/16	64.6	55	55	65	60	65	175
11/29/16	65	55	55	65	off	off	175
12/29/16	76.7	55	55	55	off	off	165
08/01/17	52	50	50	50	50	50	150
08/24/17	63.2	50	50	50	off	off	150
09/28/17	64	50	50	50	off	off	150
10/28/17	68.3	50	50	50	50	50	150
11/28/17	66.7	50	50	50	off	off	150
12/29/17	68.7	50	50	50	off	off	150

	AS Operating Pressure (psi)	Air Flow Rate (scfm)					AS Cumulative
		AS-1	AS-2	AS-3	AS-4	AS-5	
Design Values	12						25
05/29/09	8.0	5.0	5.0	5.0	5.0	5.0	25.0
06/23/09	10.8	3.5	4.0	4.0	3.7	3.0	18.2

TABLE 4.1 (Cont.)

	AS Operating Pressure (psi)	Air Flow Rate (scfm)					AS Cumulative
		AS-1	AS-2	AS-3	AS-4	AS-5	
07/29/09	11.4	6.0	1.5	5.0	1.5	3.2	17.2
08/28/09	11.0	6.0	2.0	7.0	3.0	2.0	20.0
09/23/09	11.3	6.9	1.1	5.0	1.5	0.0	14.5
10/28/09	11.4	9.0	0.5	3.2	1.0	0.0	13.7
11/27/09	12.0	3.6	3.5	2.2	3.6	0.0	12.9
12/23/09	14.0	4.0	4.0	4.0	4.0	1.5	17.5
01/28/10	12.7	5.0	3.7	4.7	5.0	0.0	18.4
02/25/10	12.0	4.9	3.0	4.8	4.5	0.0	17.2
03/23/10	11.6	4.8	2.0	5.0	4.5	0.0	16.3
04/29/10	12.7	3.0	3.0	3.0	3.0	3.0	15.0
05/27/10	11.4	4.2	3.7	4.9	1.8	0.0	14.6
06/22/10	11.4	5.0	2.4	4.0	3.0	0.0	14.4
07/28/10	11.1	4.8	2.8	4.0	2.2	0.0	13.8
08/27/10	b	b	b	b	b	b	b
09/28/10	b	b	b	b	b	b	b
10/28/10	10.8	5.9	3.7	5.0	3.6	0.0	18.2
11/19/10	10.4	b	4.0	6.8	4.6	0.0	15.4
12/27/10	11.0	b	5.0	3.5	4.0	3.0	15.5
02/02/11	10.8	3.0	3.7	2.0	2.0	3.3	14.0
03/01/11	10.0	3.0	3.0	3.0	3.0	2.5	14.5
03/29/11	11.1	4.0	4.0	4.0	1.0	4.0	17.0
04/27/11	11.1	3.3	b	3.0	2.0	3.5	11.8
05/25/11	11.9	3.5	b	2.8	2.5	4.5	13.3
08/30/11	b	b	b	b	b	b	b
09/26/11	b	b	b	b	b	b	b
10/27/11	13.0	4.0	b	5.0	4.0	3.0	16.0
11/28/11	13.5	4.0	4.0	4.0	4.0	0.0	16.0
12/29/11	11.0	4.0	4.0	4.0	4.0	0.0	16.0
01/26/12	14.0	3.0	3.0	3.0	3.0	0.5	12.5
02/21/12	14.0	2.8	2.8	1.3	2.8	0.5	10.2
03/29/12	13.0	3.0	3.0	1.5	3.0	0.5	11.0
04/26/12	13.0	2.5	3.0	3.0	3.0	1.0	12.5
05/31/12	16.0	2.0	2.0	3.0	a	a	7.0
06/28/12	18.0	4.0	5.0	6.0	a	a	15.0
07/31/12	16.0	4.0	5.0	2.0	5.0	7.0	23.0
08/31/12	19.9	6.0	6.0	1.0	a	a	13.0
09/27/12	20.0	5.0	5.0	1.5	a	a	11.5
10/30/12	20.0	4.0	4.0	2.0	7.8	2.5	10.0
12/01/12	b	b	b	b	b	b	b
12/28/12	b	b	b	b	b	b	b
02/01/13	13.5	3.0	3.7	3.2	8.2	2.0	20.4
02/28/13	20.0	5.0	5.0	4.0	a	a	14.0
03/26/13	21.0	4.0	4.0	2.0	a	a	10.0
04/26/13	21.0	3.0	3.0	0.5	2.5	0.5	6.0
05/30/13	21.5	3.5	2.5	1.5	a	a	7.5
06/27/13	19.0	4.0	4.0	0.0	a	a	8.0
08/01/13	19.0	3.5	4.0	<0.5	7.0	c	8.0
08/30/13	20.0	4.0	4.0	1.0	a	a	9.0
09/27/13	21.0	3.8	4.0	0.5	3.5	c	7.8
10/29/13	18.5	3.5	3.7	0.5	3.7	0.5	11.9
12/02/13	15.0	6.0	6.0	0.0	a	a	12.0
12/28/13	18.5	3.5	3.5	0.5	a	a	7.5
01/31/14	19.0	3.5	3.5	1.0	4.5	6.3	17.0

TABLE 4.1 (Cont.)

	AS Operating Pressure (psi)	Air Flow Rate (scfm)					AS Cumulative
		AS-1	AS-2	AS-3	AS-4	AS-5	
02/26/14	17.0	5.0	5.0	7.0	a	a	17.0
03/27/14	17.9	5.0	5.0	3.0	a	a	13.0
04/30/14	18.2	5.3	2.0	2.0	9.0	10.0	13.1
05/27/14	18.5	5.2	5.2	1.5	a	a	11.9
06/26/14	17.0	4.9	5.1	1.7	a	a	11.7
08/01/14	16.1	5.0	5.0	1.7	c	8.0	11.7
08/28/14	16.7	5.5	8.5	2.0	a	a	16.0
09/29/14	16.0	6.0	8.0	2.0	a	a	16.0
10/29/14	16.2	6.7	7.7	1.7	10.1	9.4	16.1
11/26/14	14.4	7.0	7.0	2.0	a	a	16.0
12/31/14	14.3	6.8	5.5	1.8	a	a	14.1
01/23/15	13.5	6.6	5.0	1.8	8.8	8.0	13.4
02/27/15	16.5	7.9	7.0	2.0	a	a	16.9
04/01/15	15.5	6.5	6.5	1.8	a	a	14.8
04/30/15	15.2	6.2	6.2	2.0	9.9	9.3	14.4
05/30/15	15.5	6.3	6.0	2.0	a	a	14.3
06/29/15	14.3	6.1	5.8	2.0	a	a	13.9
07/28/15	14.2	6.0	6.0	2.2	8.9	8.2	14.2
08/27/15	18.0	7.7	5.0	3.0	a	a	15.7
09/29/15	17.0	7.0	4.8	3.3	a	a	15.1
10/29/15	17.0	6.7	4.7	3.2	11.0	10.5	14.6
12/01/15	15.0	5.7	5.0	3.0	a	a	13.7
01/02/16	16.5	4.0	4.0	3.2	a	a	11.2
01/29/16	15.5	4.0	4.0	3.3	a	a	11.3
04/29/16	c	c	c	c	c	c	c
07/28/16	c	c	c	c	c	c	c
09/29/16	17	4	4	3.5	off	off	11.5
10/28/16	16.2	4	4	3.5	11	10.2	11.5
11/29/16	19.8	4	4	4.2	off	off	12.2
12/29/16	20	4.2	4.2	3.2	off	off	11.6
08/01/17	16	4.5	3.8	2.5	d	e	10.8
08/24/17	16	4.4	3	2.4	off	off	9.8
09/28/17	14.5	4	3	2	off	off	9
10/28/17	13	5.4	8.5	1.8	d	d	15.7
11/28/17	11.5	6.5	8.5	2	off	off	17
12/29/17	11.4	7	7	1.7	off	off	15.7

^a Line deactivated.

^b Blower faulty; system deactivated.

^c System deactivated.

^d Flowmeter broken or faulty.

^e Wellhead broken.

TABLE 4.2 Operating pressures for the SVE and AS systems.

Monitoring Date	SVE Vacuum (in. water)	SVE Vacuum (in. water) at Manifold						SVE Vacuum (in. water) at Wellhead					
		SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Manifold Average	SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Wellhead Average
Design Value	51												
05/29/09	46.0	34.6	32.8	31.5	29.2	34.8	32.6	34.6	31.1	29.7	28.5	34.4	31.7
06/23/09	42.9	34.0	34.6	31.6	29.1	33.5	32.6	31.6	32.9	28.9	25.6	31.3	30.1
07/29/09	40.5	30.2	31.8	28.2	26.9	29.4	29.3	28.2	29.3	24.7	23.1	26.9	26.4
08/28/09	39.4	29.0	30.7	26.6	26.6	28.7	28.3	26.0	27.5	23.8	21.6	25.1	24.8
09/23/09	38.9	27.0	29.2	26.1	24.6	26.1	26.6	24.6	26.7	23.1	21.4	23.4	23.8
10/28/09	38.4	25.7	29.1	26.9	24.9	26.0	26.5	22.9	25.4	24.0	21.5	23.4	23.4
11/27/09	38.9	26.3	29.6	28.3	25.5	25.8	27.1	24.0	27.9	26.0	22.7	22.7	24.7
12/23/09	36.0	18.2	26.1	24.4	22.2	19.2	22.0	16.0	22.5	19.0	18.3	17.5	18.7
01/28/10	39.8	27.0	30.1	29.5	26.8	28.9	28.5	24.3	29.8	27.9	21.8	26.5	26.1
02/25/10	40.3	30.7	34.9	34.2	31.9	33.6	33.1	23.2	31.8	26.6	27.8	30.6	28.0
03/23/10	40.1	29.5	31.3	25.7	24.2	27.0	27.5	28.4	28.9	23.4	20.2	22.4	24.7
04/29/10	41.4	32.3	31.1	28.9	19.7	20.8	26.6	30.6	29.4	25.9	17.3	19.7	24.6
05/27/10	43.4	35.7	33.8	30.6	21.6	30.5	30.4	33.5	30.8	26.9	19.1	28.5	27.8
06/22/10	43.8	36.7	34.9	31.0	22.4	30.9	31.2	35.2	33.0	27.7	19.9	28.3	28.8
07/28/10	38.9	32.0	29.0	26.1	18.6	25.9	26.3	30.7	26.8	23.1	16.0	22.3	23.8
08/27/10	39.1	31.5	29.0	28.0	19.3	26.1	26.8	30.0	26.5	25.1	16.9	21.4	24.0
09/28/10	35.5	28.1	22.9	25.8	17.8	22.5	23.4	26.6	19.4	23.3	16.0	18.1	20.7
10/28/10	26.4	16.0	13.7	18.2	14.2	13.4	15.1	14.4	9.3	15.2	12.8	8.6	12.1
11/19/10	23.6	10.9	10.9	15.2	12.8	10.6	12.1	8.5	6.1	13.4	10.9	5.9	9.0
12/27/10	22.4	11.6	11.8	16.2	18.5	10.0	13.6	4.0	4.2	10.5	7.2	5.9	6.4
02/02/11	26.7	15.3	11.0	3.2	13.3	6.4	9.8	13.6	—	—	—	—	—
03/01/11	27.8	17.3	12.4	4.5	16.2	11.3	12.3	—	8.3	4.3	10.0	7.2	7.5
03/29/11	27.3	11.3	9.5	2.6	13.7	8.0	9.0	—	6.8	1.3	11.0	5.0	6.0
04/27/11	28.0	11.7	11.9	3.3	14.7	9.9	10.3	10.3	9.3	2.3	12.8	7.9	8.5
05/25/11	43.8	38.3	32.9	6.1	29.6	31.8	27.7	—	—	—	—	—	—
08/30/11	35.6	26.2	25.9	18.1	22.1	20.5	22.6	—	—	—	—	—	—
09/26/11	27.7	14.9	15.7	11.5	14.9	8.4	13.1	11.4	13.2	8.2	13.3	3.9	10.0
10/27/11	26.7	8.1	10.8	9.7	12.7	7.2	9.7	7.3	4.5	5.9	10.5	2.7	—
11/28/11	33.7	24.3	14.3	11.3	10.0	15.1	15.0	22.1	11.7	8.6	7.9	14.6	13.0
12/29/11	28.3	15.9	10.2	8.3	10.0	12.1	11.3	13.7	7.8	5.1	8.6	9.4	8.9
01/26/12	31.0	19.1	18.1	12.7	6.7	12.9	13.9	12.1	6.4	2.9	2.9	7.2	6.3
02/21/12	32.8	16.5	13.2	8.6	7.7	12.6	11.7	13.6	7.9	6.8	4.7	8.0	8.2
03/29/12	32.1	17.5	13.2	10.0	10.2	14.1	13.0	14.3	8.9	6.7	7.2	10.5	9.5

TABLE 4.2 (Cont.)

Monitoring Date	SVE Vacuum (in. water)	SVE Vacuum (in. water) at Manifold						SVE Vacuum (in. water) at Wellhead					
		SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Manifold Average	SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Wellhead Average
04/26/12	31.6	19.1	13.7	9.4	10.0	14.8	13.4	14.8	9.7	5.1	7.2	10.2	9.4
05/31/12	40.5	13.6	18.0	25.9	a	a	19.2	13.5	17.0	12.1	a	a	14.2
06/28/12	41.3	12.7	12.9	26.4	a	a	17.3	10.2	9.4	12.7	a	a	10.8
07/31/12	45.5	20.6	12.6	31.4	32.0	31.6	25.6	18.2	9.8	20.2	20.8	18.0	17.4
08/31/12	44.5	17.6	10.5	30.3	a	a	19.5	14.8	7.2	18.0	a	a	13.3
09/27/12	43.8	14.5	7.6	29.0	a	a	17.0	11.3	4.1	16.3	a	a	10.6
10/30/12	41.3	6.0	9.5	26.1	25.5	26.6	18.7	5.8	7.9	12.2	12.0	12.4	10.1
12/01/12	39.7	7.8	7.2	24.8	a	a	13.3	3.5	2.4	7.8	a	a	4.6
12/28/12	40.6	8.2	7.4	24.9	a	a	13.5	3.5	2.6	7.1	a	a	4.4
02/01/13	39.0	8.8	6.9	24.1	14.4	15.2	13.9	3.1	2.2	7.3	8.2	9.5	6.1
02/28/13	36.7	7.8	5.7	21.5	a	a	11.7	2.7	2.0	6.8	a	a	3.8
03/26/13	38.0	9.7	7.3	25.8	a	a	14.3	4.2	3.5	24.2	a	a	10.6
04/26/13	26.9	8.7	10.3	8.6	8.2	10.0	9.2	4.3	5.3	8.2	6.2	7.3	6.3
05/30/13	35.9	11.1	12.7	11.3	a	a	11.7	5.5	6.4	5.1	a	a	5.7
06/27/13	32.2	10.4	9.2	18.1	a	a	12.6	5.6	4.3	6.8	a	a	5.6
08/01/13	35.0	11.4	9.3	19.4	18.0	19.3	15.5	6.7	4.5	9.3	9.6	10.0	8.0
08/30/13	35.6	11.3	8.5	21.6	a	a	13.8	6.8	4.3	10.7	a	a	7.3
09/27/13	60.7	19.3	6.3	8.6	7.6	8.9	10.1	4.2	3.3	5.4	5.2	6.0	4.8
10/29/13	22.2	6.4	5.7	8.2	7.2	8.5	7.2	3.1	2.7	4.8	4.4	5.4	4.1
12/02/13	41.5	5.3	5.3	27.0	a	a	12.5	2.2	2.2	9.8	a	a	4.7
12/28/13	41.5	6.8	6.5	26.8	a	a	13.4	2.6	2.6	7.6	a	a	4.3
01/31/14	40.3	6.1	6.5	25.6	17.8	26.7	16.5	2.2	2.2	14.7	a	a	6.4
02/26/14	40.2	6.8	6.8	25.5	a	a	13.0	2.8	3.0	14.5	a	a	6.8
03/27/14	42.4	7.1	7.0	17.9	a	a	10.7	3.4	3.4	5.9	a	a	4.2
04/30/14	41.7	7.3	7.8	17.4	6.8	a	9.8	3.5	3.8	6.4	a	a	4.6
05/27/14	39.4	6.9	7.0	16.8	a	a	10.2	3.1	3.2	5.9	a	a	4.1
06/26/14	41.1	8.1	8.2	18.9	a	a	11.7	4.0	4.1	8.2	a	a	5.4
08/01/14	41.7	8.5	8.3	20.1	24.8	24.0	17.1	4.5	4.2	10.1	13.4	11.5	8.7
08/28/14	44.8	11.3	9.5	24.3	a	a	15.0	6.6	5.5	15.1	a	a	9.1
09/29/14	43.1	7.7	9.0	22.2	a	a	13.0	4.8	3.7	12.5	a	a	7.0
10/29/14	43.1	7.8	7.3	21.4	25.5	24.8	17.4	3.6	3.1	10.6	13.5	11.1	8.4
11/26/14	44.7	8.1	8.4	20.4	a	a	12.3	2.9	2.9	7.3	a	a	4.4
12/31/14	43.2	8.4	7.8	19.7	a	a	12.0	2.5	2.7	5.5	a	a	3.6
01/23/15	41.9	9.1	8.8	18.4	23.4	22.9	16.5	3.0	2.6	6.9	7.1	7.2	5.4
02/27/15	47.7	8.0	6.8	17.8	a	a	10.9	2.5	2.2	8.9	a	a	4.5
04/01/15	46.2	7.4	6.6	18.0	a	a	10.7	3.2	2.6	6.7	a	a	4.2

TABLE 4.2 (Cont.)

Monitoring Date	SVE Vacuum (in. water)	SVE Vacuum (in. water) at Manifold						SVE Vacuum (in. water) at Wellhead					
		SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Manifold Average	SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	Wellhead Average
04/30/15	45.6	7.1	7.3	16.7	23.5	23.5	15.6	2.9	3.3	7.5	9.5	8.3	6.3
05/30/15	48.9	9.3	10.2	20.2	a	a	13.2	4.8	5.4	10.9	a	a	7.0
06/29/15	46.1	7.8	7.7	17.6	a	a	11.0	4.0	3.9	8.6	a	a	5.5
07/28/15	47.4	9.6	9.6	20.2	28.8	26.7	19.0	5.6	5.7	11.9	16.1	13.0	10.5
08/27/15	31.4	8.5	8.6	11.9	a	a	9.7	4.5	4.7	7.3	a	a	5.5
09/29/15	30.7	8.1	8.0	11.2	a	a	9.1	4.1	4.0	6.2	a	a	4.8
10/29/15	31.0	7.5	7.4	11.1	15.2	14.9	11.2	3.3	3.4	5.9	8.5	6.6	5.5
12/01/15	32.7	7.8	8.3	12.1	a	a	9.4	3.2	3.5	5.9	a	a	4.2
01/02/16	32.6	10.3	8.5	10.1	a	a	9.6	5.3	4.3	5.9	a	a	5.2
01/29/16	32.6	9.7	11.2	12.8	10.5	11.2	11.1	7.1	6.8	8.7	6.3	5.9	7.0
04/29/16	b	b	b	b	b	b	b	b	b	b	b	b	b
07/28/16	b	b	b	b	b	b	b	b	b	b	b	b	b
09/29/16	66.4	12.8	12.3	24	off	off	16.4	6	5.8	13.9	off	off	8.6
10/28/16	64.6	11.6	11.3	21.8	18.3	21.1	16.8	5.4	5.1	12.3	9.6	10.3	8.5
11/29/16	65	11.8	11.8	21.4	off	off	15.0	4.9	3.8	10.8	off	off	6.5
12/29/16	76.7	12.3	12.3	21.1	off	off	15.2	4.6	5.4	11	off	off	7.0
08/01/17	52	8.1	9	12.3	11.5	41.3	16.4	5.6	5.8	7.1	6.7	35.8	12.2
08/24/17	63.2	7.2	10	12.1	off	off	9.8	2.9	5.1	7.5	off	off	5.2
09/28/17	64	7	9.1	12.1	off	off	9.4	2.7	4.5	7.2	off	off	4.8
10/28/17	68.3	6.2	23.7	14.5	13.2	49.7	21.5	3.5	21	11	8.3	51.4	19.0
11/28/17	66.7	6.7	22.7	16.2	off	off	15.2	2.9	18.9	10.8	off	off	10.9
12/29/17	68.7	7.2	24	13.7	off	off	15.0	2.4	19.7	8.3	off	off	10.1
	AS Operating Pressure (psi)	AS Pressure (psi) at Manifold						AS Pressure (psi) at Wellhead					
		AS-1	AS-2	AS-3	AS-4	AS-5	Manifold Average	AS-1	AS-2	AS-3	AS-4	AS-5	Wellhead Average
Design Value	12												
05/29/09	8.0	5.5	8.0	8.0	9.0	8.0	7.7	5.0	7.5	7.2	8.6	7.9	7.2
06/23/09	10.8	5.9	8.8	7.8	8.4	8.9	8.0	5.3	8.3	7.0	8.2	8.4	7.4
07/29/09	11.4	6.1	8.3	8.9	8.2	8.9	8.1	5.3	8.2	8.1	8.0	8.7	7.7
08/28/09	11.0	5.9	8.3	8.5	8.4	8.7	7.9	4.1	8.1	8.1	8.1	8.5	7.4

TABLE 4.2 (Cont.)

	AS Operating Pressure (psi)	AS Pressure (psi) at Manifold						AS Pressure (psi) at Wellhead					
		AS-1	AS-2	AS-3	AS-4	AS-5	Manifold Average	AS-1	AS-2	AS-3	AS-4	AS-5	Wellhead Average
09/23/09	11.3	5.9	8.2	8.3	8.1	8.5	7.8	5.0	8.1	7.8	8.0	8.4	7.5
10/28/09	11.4	5.5	8.2	8.2	8.2	8.3	7.7	4.0	8.0	7.9	8.0	8.2	7.2
11/27/09	12.0	6.0	8.7	8.9	8.7	9.0	8.2	5.8	8.6	8.8	8.5	8.9	8.1
12/23/09	14.0	5.0	8.5	7.4	8.3	10.0	7.8	4.3	8.1	7.3	8.2	8.3	7.2
01/28/10	12.7	4.8	8.3	7.2	8.3	8.5	7.4	4.6	8.1	6.7	7.8	8.4	7.1
02/25/10	12.9	5.0	8.4	7.2	8.4	8.5	7.5	4.7	8.2	6.8	8.0	8.5	7.2
03/23/10	11.6	4.8	8.5	6.9	8.4	8.6	7.4	4.5	8.4	6.6	8.1	8.6	7.2
04/29/10	12.7	5.5	8.6	7.4	8.5	10.0	8.0	5.3	8.4	7.2	8.3	9.6	7.8
05/27/10	11.4	5.7	8.9	7.8	8.3	9.0	7.9	5.1	8.5	7.5	8.3	8.8	7.6
06/22/10	11.4	6.2	8.7	8.7	8.4	8.8	8.2	5.5	8.5	8.3	8.1	8.8	7.9
07/28/10	11.1	1.1	8.9	9.0	8.6	10.0	7.5	0.6	8.5	8.3	7.9	8.8	6.8
08/27/10	b	b	b	b	b	b	b	b	b	b	b	b	b
09/28/10	b	b	b	b	b	b	b	b	b	b	b	b	b
10/28/10	10.8	0.9	8.4	8.4	8.5	8.6	6.9	0.3	8.3	7.7	8.3	8.4	6.6
11/19/10	10.4	a	8.9	8.8	8.9	10.0	7.3	—	8.6	8.1	8.5	8.9	6.8
12/27/10	11.0	a	9.1	9.2	8.5	9.3	7.2	—	8.7	8.7	8.4	9.0	7.0
02/02/11	10.8	5.4	8.8	8.7	8.5	10.0	8.3	4.9	8.4	8.4	8.4	9.0	7.8
03/01/11	10.0	5.3	2.0	8.0	8.7	9.0	6.6	—	0.5	7.6	8.5	8.1	6.2
03/29/11	11.1	4.6	0.4	7.8	10.0	10.0	6.6	—	0.1	7.5	7.9	9.0	6.1
04/27/11	11.1	5.5	a	8.2	8.6	10.0	8.1	5.0	a	8.1	8.3	8.8	7.5
05/25/11	11.9	5.7	a	10.0	8.7	10.0	8.6	—	a	c	c	c	c
08/30/11	b	b	b	b	b	b	b	b	b	b	b	b	b
09/26/11	b	b	b	b	b	b	b	b	b	b	b	b	b
10/27/11	13.0	5.8	a	8.0	8.7	11.6	8.5	5.5	a	7.7	8.5	11.3	8.2
11/28/11	13.5	5.7	9.0	8.3	8.8	10.0	8.4	5.1	9.0	8.0	8.6	10.0	8.1
12/29/11	11.0	5.3	9.0	10.6	8.6	11.1	8.9	5.3	9.0	10.2	8.4	11.1	8.8
01/26/12	14.0	5.5	8.7	12.5	9.0	12.5	9.6	5.3	8.7	12.4	8.8	12.5	9.5
02/21/12	14.0	5.7	9.0	10.0	10.0	10.0	8.9	5.2	8.6	10.0	8.3	10.0	8.4
03/29/12	13.0	5.9	9.2	11.7	8.9	11.8	9.5	5.4	8.7	10.7	8.1	11.3	8.8
04/26/12	13.0	5.6	9.0	11.1	8.7	11.6	9.2	5.2	8.7	11.0	8.2	11.6	8.9
05/31/12	16.0	5.4	8.6	14.0	a	a	9.3	5.2	8.4	13.8	a	a	9.1
06/28/12	18.0	5.3	8.7	15.7	a	a	9.9	5.2	8.1	15.1	a	a	9.5
07/31/12	16.0	5.3	8.4	10+	8.3	10+	8.4	5.0	8.2	10+	7.8	10+	8.2
08/31/12	19.9	5.4	8.8	7.7	a	a	7.3	4.9	8.3	7.7	a	a	6.9
09/27/12	20.0	5.3	8.5	10+	a	a	7.9	4.9	8.1	10+	a	a	7.7
10/30/12	20.0	5.3	8.3	10+	8.9	10+	8.5	5.0	8.0	10+	8.1	10+	8.2

TABLE 4.2 (Cont.)

	AS Operating Pressure (psi)	AS Pressure (psi) at Manifold						AS Pressure (psi) at Wellhead					
		AS-1	AS-2	AS-3	AS-4	AS-5	Manifold Average	AS-1	AS-2	AS-3	AS-4	AS-5	Wellhead Average
12/01/12	b	b	b	b	b	b	b	b	b	b	b	b	b
12/28/12	b	b	b	b	b	b	b	b	b	b	b	b	b
02/01/13	13.5	5.1	8.4	10+	10+	10+	8.7	4.9	8.1	10+	8.2	10+	8.2
02/28/13	20.0	4.7	8.0	10+	a	a	7.6	4.4	7.6	10+	a	a	7.3
03/26/13	21.0	4.6	7.7	10+	a	a	7.4	4.4	7.3	10+	a	a	7.2
04/26/13	21.0	4.9	8.0	10+	7.9	10+	8.2	4.8	7.8	10+	7.9	10+	8.1
05/30/13	21.5	4.9	7.9	10+	a	a	7.6	4.6	7.5	10+	a	a	7.3
06/27/13	19.0	4.9	8.4	10+	a	a	7.8	4.5	7.9	10+	a	a	7.5
08/01/13	19.0	4.7	7.6	10+	8.8	10+	8.2	4.4	7.3	10+	7.2	10+	7.8
08/30/13	20.0	4.7	7.8	10+	a	a	7.5	4.2	7.3	10+	a	a	7.2
09/27/13	21.0	4.5	7.8	10+	7.5	10+	8.0	4.3	7.6	10+	7.4	10+	7.8
10/29/13	18.5	4.7	7.9	10+	7.7	10+	8.1	4.5	7.6	10+	7.5	10+	7.9
12/02/13	15.0	4.4	7.8	10+	a	a	7.4	4.0	7.4	10+	a	a	7.1
12/28/13	18.5	4.7	7.9	10+	a	a	7.5	4.6	7.8	10+	a	a	7.4
01/31/14	19.0	4.3	7.7	6.4	7.6	10+	7.2	4.1	7.4	5.3	a	a	5.6
02/26/14	17.0	4.2	7.7	10+	a	8.3	7.5	3.8	7.3	10+	a	7.7	7.0
03/27/14	17.9	4.4	7.9	10+	a	a	7.4	3.9	7.5	10+	a	a	7.1
04/30/14	18.2	4.3	7.9	15.8	8.4	9.0	9.1	3.9	7.4	15.7	7.2	7.6	8.3
05/27/14	18.5	4.6	8.1	16.1	a	a	9.6	4.0	7.4	15.9	a	a	9.1
06/26/14	17.0	4.5	8.0	14.3	a	a	8.9	3.9	7.4	14.2	a	a	8.5
08/01/14	16.1	4.3	7.9	10+	8.0	8.2	7.1	3.9	7.3	10+	7.0	7.3	6.4
08/28/14	16.7	4.4	8.6	10+	a	a	6.5	3.9	7.4	10+	a	a	5.6
09/29/14	16.0	4.4	8.3	10+	a	a	6.4	3.8	7.3	10+	a	a	5.5
10/29/14	16.2	4.4	8.0	10+	8.2	8.5	7.3	3.7	7.2	10+	6.9	7.3	6.2
11/26/14	14.4	4.4	7.8	10+	a	a	6.1	3.6	7.1	10+	a	a	5.4
12/31/14	14.3	4.3	7.4	10+	a	a	5.8	3.3	6.8	10+	a	a	5.1
01/23/15	13.5	4.2	7.3	10+	7.6	7.9	6.7	3.6	6.9	10+	6.7	7.0	6.0
02/27/15	16.5	4.3	7.6	10+	a	a	7.3	3.5	6.8	10+	a	a	6.8
04/01/15	15.5	4.3	7.6	10+	a	a	7.3	3.7	7.1	10+	a	a	6.9
04/30/15	15.2	4.2	7.5	10+	8.3	8.3	7.0	3.6	7.0	10+	6.7	7.1	6.1
05/30/15	15.5	4.3	7.7	10+	a	a	7.3	3.6	7.0	10+	a	a	6.9
06/29/15	14.3	3.9	7.5	10+	a	a	7.1	3.4	7.0	10+	a	a	6.8
07/28/15	14.2	4.2	7.5	10+	7.5	8.0	6.8	3.4	7.0	10+	6.5	6.9	5.9
08/27/15	18.0	4.3	7.5	10+	a	a	7.3	3.4	7.0	10+	a	a	6.8
09/29/15	17.0	4.0	7.1	10+	a	a	7.0	3.3	6.8	10+	a	a	6.7
10/29/15	17.0	4.0	7.1	10+	7.8	8.5	6.8	3.3	6.7	10+	6.4	6.9	5.8

TABLE 4.2 (Cont.)

	AS Operating Pressure (psi)	AS Pressure (psi) at Manifold						AS Pressure (psi) at Wellhead					
		AS-1	AS-2	AS-3	AS-4	AS-5	Manifold Average	AS-1	AS-2	AS-3	AS-4	AS-5	Wellhead Average
12/01/15	15.0	3.8	7.3	10+	a	a	7.0	3.4	6.9	3.2	a	a	6.8
01/02/16	16.5	3.6	6.5	10+	a	a	6.7	3.5	4.3	10+	a	a	5.9
01/29/16	15.5	3.6	7.4	10+	7.9	8.6	7.5	3.4	6.8	10+	6.6	7.0	6.8
04/29/16	c	c	c	c	c	c	c	c	c	c	c	c	c
07/28/16	c	c	c	c	c	c	c	c	c	c	c	c	c
09/29/16	17	5.2	10+	10+	off	off	8.4	5.1	10+	10+	off	off	8.4
10/28/16	16.2	4.8	10+	10+	10+	10+	9.0	4.7	9.7	10+	9.4	9.9	8.7
11/29/16	19.8	4.8	10	10+	off	off	8.3	4.4	9.6	10+	off	off	8.0
12/29/16	20	4.7	10	10+	off	off	8.2	4.4	9.4	10+	off	off	7.9
08/01/17	16	3.93	7.55	10+	b	b	7.2	3.55	7.37	10+	f	f	7.0
08/24/17	16	4.15	7.47	10+	off	off	7.2	3.87	7.32	10+	off	off	7.1
09/28/17	14.5	4.16	7.5	10+	off	off	7.2	3.87	7.33	10+	off	off	7.1
10/28/17	13	4.46	8.86	10+	7.96	e	7.8	4.02	7.57	10+	f	f	7.2
11/28/17	11.5	4.52	8.68	9.47	off	off	7.7	3.86	7.76	9.45	off	off	7.2
12/29/17	11.4	5.36	8.61	9.32	off	off	8.0	4.07	7.82	8.91	off	off	7.3

^a Line deactivated.

^b Blower faulty; system deactivated.

^c System deactivated.

^d Standing water prevented reading of wellhead pressure.

^e No guage.

^f Flowmeter broken.

TABLE 4.3 Analytical results from GreenField for SVE wells.^a

Location	Sample Date	Carbon Tetrachloride	Chloroform	1,2-DCA	Units	Sampled by	Analyzed by
SVE-1	05/29/09	5,900	710	ND ^b (31)	µg/m ³	GeoCore	Columbia
SVE-1	06/23/09	150	11	ND (2.6)	µg/m ³	GeoCore	Columbia
SVE-1	07/30/09	21	5.1	ND (2.4)	µg/m ³	GeoCore	Columbia
SVE-1	08/28/09	20	4.8	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	11/27/09	16	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	02/25/10	62	2.0	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-1	05/27/10	23	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	08/27/10	7.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	11/19/10	138	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	03/01/11	42	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	05/25/11	95	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	10/27/11	5.6	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	01/26/12	9.4	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	04/26/12	15	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	07/31/12	c	c	c	c	GeoCore	c
SVE-1	10/30/12	15	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	02/01/13	23	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	04/26/13	11	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	08/01/13	13	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	10/29/13	1.1	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-1	01/31/14	8.2	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	04/30/14	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	08/01/14	13	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	10/29/14	10	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	01/23/15	11	ND (3.9)	8.5	µg/m ³	GeoCore	Accutest
SVE-1	04/30/15	7.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	07/28/15	17	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	10/29/15	8.8	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	01/29/16	ND (5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	04/29/16	f	f	f	f	f	f
SVE-1	07/28/16	f	f	f	f	f	f
SVE-1	10/28/16	1.1	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-1	08/01/17	ND (5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-1	10/28/17	8.8	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	05/29/09	8,800	480	ND (48)	µg/m ³	GeoCore	Columbia
SVE-2	06/23/09	49	17	ND (2.5)	µg/m ³	GeoCore	Columbia
SVE-2	07/30/09	26	5.2	ND (2.4)	µg/m ³	GeoCore	Columbia
SVE-2	08/28/09	33	5.9	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	11/27/09	23	2.1 J ^d	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	02/25/10	12	1.6	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-2	05/27/10	6.3	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	08/27/10	3.8	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	11/19/10	12,000	56	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	03/01/11	5.4	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	05/25/11	23	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/27/11	3.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	01/26/12	6.9	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/26/12	13	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	07/31/12	7.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/30/12	3.7	2.3	ND (3.2)	µg/m ³	GeoCore	Accutest

TABLE 4.3 (Cont.)

Location	Sample Date	Carbon Tetrachloride	Chloroform	1,2-DCA	Units	Sampled by	Analyzed by
SVE-2	02/01/13	3.7	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/26/13	5.9	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	08/01/13	4.3	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/29/13	0.8	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-2	01/31/14	3.3	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/30/14	6.3	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	08/01/14	5.3	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/29/14	ND(5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	01/23/15	ND (5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/30/15	2.9	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	07/28/15	4.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/29/15	ND (5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	01/29/16	240	2.1	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	04/29/16	f	f	f	f	f	f
SVE-2	07/28/16	f	f	f	f	f	f
SVE-2	10/28/16	2.6	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-2	08/01/17	ND (5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-2	10/28/17	7.5	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	05/29/09	60,000	2,600	ND (310)	µg/m ³	GeoCore	Columbia
SVE-3	06/23/09	2,000	190	ND (2.5)	µg/m ³	GeoCore	Columbia
SVE-3	07/30/09	950	54	ND (2.4)	µg/m ³	GeoCore	Columbia
SVE-3	08/28/09	502	37	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	11/27/09	528	21	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	02/25/10	238	28	ND (1.6)	µg/m ³	GeoCore	Accutest
SVE-3	05/27/10	345	15	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	08/27/10	113	9.3	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	11/19/10	7,110	47	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	03/01/11	96	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	05/25/11	5.0	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/27/11	165	3.0	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	01/26/12	46	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/26/12	45	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	07/31/12	82	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/30/12	47	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	02/01/13	19	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/26/13	39	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	08/01/13	86	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/29/13	91	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	01/31/14	47	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/30/14	60	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	08/01/14	150	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/29/14	83	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	01/23/15	89	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/30/15	57	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	07/28/15	184	2.1	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/29/15	166	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	01/29/16	240	2.1	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	04/29/16	f	f	f	f	f	f
SVE-3	07/28/16	f	f	f	f	f	f

TABLE 4.3 (Cont.)

Location	Sample Date	Carbon Tetrachloride	Chloroform	1,2-DCA	Units	Sampled by	Analyzed by
SVE-3	10/28/16	145	1.4	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-3	08/01/17	144	1.9	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-3	10/28/17	55	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	05/29/09	29,000	1,800	ND (160)	µg/m ³	GeoCore	Columbia
SVE-4	06/23/09	400	51	ND (2.5)	µg/m ³	GeoCore	Columbia
SVE-4	07/30/09	130	12	ND (2.3)	µg/m ³	GeoCore	Columbia
SVE-4	08/28/09	84	8.3	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	11/27/09	110	7.3	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	02/25/10	59	6.8	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-4	08/27/10	17	3.0	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	11/19/10	34,300	90.3	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	03/01/11	25	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	05/25/11	23	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/27/11	17	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	01/26/12	8.8	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/26/12	8.2	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	07/31/12	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/30/12	8.2	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	02/01/13	8.2	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/26/13	4.4	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	08/01/13	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/29/13	14	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	01/31/14	13	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/30/14	20	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	08/01/14	28	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/29/14	13	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	01/23/15	12	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/30/15	20	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	07/28/15	30	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/29/15	ND (5)	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	01/29/16	20	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	04/29/16	f	f	f	f	f	f
SVE-4	07/28/16	f	f	f	f	f	f
SVE-4	10/28/16	19	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-4	08/01/17	15	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-4	10/28/17	14	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	05/29/09	13,000	310	ND (64)	µg/m ³	GeoCore	Columbia
SVE-5	06/23/09	1,900	160	ND (2.4)	µg/m ³	GeoCore	Columbia
SVE-5	07/30/09	760	39	ND (2.4)	µg/m ³	GeoCore	Columbia
SVE-5	11/27/09	188	6.8	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	02/25/10	174	18	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-5	05/27/10	130	5.9	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	08/27/10	55	2.9	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	11/19/10	4,940	31	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	03/01/11	129	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	05/25/11	125	3.2	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/27/11	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	01/26/12	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest

TABLE 4.3 (Cont.)

Location	Sample Date	Carbon Tetrachloride	Chloroform	1,2-DCA	Units	Sampled by	Analyzed by
SVE-5	04/26/12	36	2.4	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	07/31/12	40	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/30/12	23	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	02/01/13	18	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	04/26/13	4.6	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	08/01/13	49	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/29/13 ^e	45	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	01/31/14	162	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	04/30/14	65	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	08/01/14	96	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/29/14	45	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	01/23/15	47	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	04/30/15	77	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	07/28/15	117	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/29/15	91	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	01/29/16	128	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	04/29/16	f	f	f	f	f	f
SVE-5	07/28/16	f	f	f	f	f	f
SVE-5	10/28/16	250	1.0	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-5	08/01/17	378	3.4	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-5	10/28/17	311	3.3	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	05/29/09	46,000	2,000	ND (64)	µg/m ³	GeoCore	Columbia
SVE-Effluent	06/23/09	1,100	99	ND (2.2)	µg/m ³	GeoCore	Columbia
SVE-Effluent	07/30/09	460	26	ND (2.5)	µg/m ³	GeoCore	Columbia
SVE-Effluent	08/28/09	40	ND (14)	ND (11)	µg/m ³	GeoCore	Accutest
SVE-Effluent	11/27/09	182	8.8	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	02/25/10	115	12	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-Effluent	05/27/10	143	6.8	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	08/27/10	34	2.9	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	11/19/10	13,000	97	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	05/25/11	49	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/27/11	33	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	01/26/12	21	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	04/26/12	25	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	07/31/12	52	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/30/12	27	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	02/01/13	9.4	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	04/26/13	20	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	08/01/13	48	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/29/13	38	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	01/31/14	9.4	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	04/30/14	15	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	08/01/14	64	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/29/14	41	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	01/23/15	11	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	04/30/15	50	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	07/28/15	77	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/29/15	38	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	01/29/16	82	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest

TABLE 4.3 (Cont.)

Location	Sample Date	Carbon Tetrachloride	Chloroform	1,2-DCA	Units	Sampled by	Analyzed by
SVE-Effluent	04/29/16	f	f	f	f	f	f
SVE-Effluent	07/28/16	f	f	f	f	f	f
SVE-Effluent	10/28/16	25	ND (0.98)	ND (0.81)	µg/m ³	GeoCore	Accutest
SVE-Effluent	08/01/17	44	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest
SVE-Effluent	10/28/17	39	ND (3.9)	ND (3.2)	µg/m ³	GeoCore	Accutest

^a Data are from GreenField start-up report and from monthly and quarterly OMM reports.

^b ND, compound analyzed for but not detected at a level greater than or equal to the indicated method detection limit.

^c Sampling error. The canister received at the laboratory was out of the vacuum range and was not suitable for analysis.

^d J, compound identified with an estimated concentration between the instrument detection limit and the method detection limit.

^e GreenField quarterly report gives date as 10/25/13.

^f System deactivated.

TABLE 4.4 Analytical results for soil gas samples.

Location	Sample	Sample Date	Concentration (µg/m ³)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
SG1S	AGSG1S-G-17934	05/26/09	1,100	380	170 U ^a	81 U
SG1S	AGSG1S-G-17960	07/30/09	24,000	1,700	210 U	97 U
SG1S	AGSG1S-G-17977	09/18/09	36,000	3,700	1800 U	810 U
SG1S	AGSG1S-G-17991	11/25/09	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30130	02/12/10	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30131 ^b	02/12/10	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30138	03/23/10	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30156	05/27/10	37 U	29 U	52 U	24 U
SG1S	AGSG1S-G-30237	09/16/10	32 U	25 U	44 U	20 U
SG1S	AGSG1S-G-30256	12/16/10	80	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30275	03/16/11	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30307	06/07/11	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30330	10/05/11	25 U	20 U	35 U	16 U
SG1S	AGSG1S-G-30350	12/14/11	21	9.8 U	17 U	8.1 U
SG1S	AGSG1SDUP-G-30356 ^b	12/14/11	14	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30371	03/14/12	28	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30392	06/27/12	35 U	27 U	49 U	23 U
SG1S	AGSG1SDUP-G-30398 ^b	06/27/12	63 U	49 U	87 U	41 U
SG1S	AGSG1S-G-30453	10/18/12	36	14 U	25 U	12 U
SG1S	AGSG1S-G-30473	01/16/13	60	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30493	04/02/13	41	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-30525	07/11/13	18	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-35716	09/17/13	16	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-35736	11/20/13	35	9.8 U	17 U	8.1 U
SG1S	AGSG1SDUP-35742 ^b	11/20/13	44	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-35756	02/26/14	14	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-36604	06/25/14	13 U	9.8 U ^d	17 U ^d	8.1 U
SG1S	AGSG1S-G-36816	09/30/14	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-36838	12/02/14	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-37180	03/27/15	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-38195	10/15/15	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-38746 ^c	03/17/16	13 U	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-39340	10/18/16	29	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-39878	10/17/17	1.9 J	9.8 U	17 U	3.3 J
SG1D	AGSG1D-G-17928	05/20/09	19,000	1,700	17 U	8.1 U
SG1D	AGSG1D-G-17935	05/26/09	16,000	930	180 U	85 U
SG1D	AGSG1D-G-17961	07/30/09	540	32	17 U	8.1 U
SG1D	AGSG1D-G-17978	09/18/09	13,000	3,600	110 U	48 U
SG1D	AGSG1D-G-17979 ^b	09/18/09	13,000	4,100	100 U	49 U
SG1D	AGSG1D-G-17992	11/25/09	1,400	470	17 U	8.1 U
SG1D	AGSG1D-G-30132	02/12/10	2,000	490	17 U	8.1 U
SG1D	AGSG1D-G-30139	03/23/10	570	150	17 U	8.1 U
SG1D	AGSG1D-G-30157	05/27/10	18	9.8 U	17 U	8.1 U
SG1D	AGSG1DDUP-G-30162 ^b	05/27/10	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-30238	09/16/10	19	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-30257	12/16/10	63	9.7	17 U	8.1 U
SG1D	AGSG1D-G-30276	03/16/11	52	20	17 U	8.1 U
SG1D	AGSG1D-G-30308	06/07/11	91	19	17 U	8.1 U
SG1D	AGSG1DDUP-G-30313 ^b	06/07/11	96	19	17 U	8.1 U
SG1D	AGSG1D-G-30331	10/05/11	34	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-30351	12/14/11	13 U	9.8 U	17 U	8.1 U

TABLE 4.4 (Cont.)

Location	Sample	Sample Date	Concentration ($\mu\text{g}/\text{m}^3$)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
SG1D	AGSG1D-G-30372	03/14/12	37	11	17 U	8.1 U
SG1D	AGSG1D-G-30393	06/27/12	42	12	17 U	8.1 U
SG1D	AGSG1D-G-30454	10/18/12	13	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-30474	01/16/13	100	18	17 U	8.1 U
SG1D	AGSG1D-G-30494	04/02/13	26	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-30526	07/11/13	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1DDUP-G-30531 ^b	07/11/13	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-35717	09/17/13	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-35737	11/20/13	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-35757	02/26/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1DDUP-G-35762 ^b	02/26/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-36605	06/25/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-36817	09/30/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-36839	12/02/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1DDUP-G-36844 ^b	12/02/14	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-37181	03/27/15	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-38196	10/15/15	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-38747 ^c	03/17/16	13	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-39341	10/18/16	27	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-39879	10/17/17	3.6 J	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-17929	05/20/09	450	330	17 U	8.1 U
SG2S	AGSG2S-G-17936	05/26/09	330	98 U	170 U	81 U
SG2S	AGSG2S-G-17962	07/30/09	250	28	45 U	21 U
SG2S	AGSG2S-G-17980	09/18/09	2,600	730	180 U	81 U
SG2S	AGSG2S-G-17993	11/25/09	1,400	190	35 U	16 U
SG2S	AGSG2S-G-30133	02/12/10	13 U	19	17 U	8.1 U
SG2S	AGSG2S-G-30140	03/23/10	88	27	17 U	8.1 U
SG2S	AGSG2S-G-30158	05/27/10	110	30	52 U	24 U
SG2S	AGSG2S-G-30239	09/16/10	360	97 U	170 U	80 U
SG2S	AGSG2SDUP-G-30243 ^b	09/16/10	230	74 U	130 U	62 U
SG2S	AGSG2S-G-30258	12/16/10	230	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30277	03/16/11	99	79 U	140 U	65 U
SG2S	AGSG2S-G-30309	06/07/11	40	20 U	35 U	16 U
SG2S	AGSG2S-G-30332	10/05/11	25 U	20 U	35 U	16 U
SG2S	AGSG2S-G-30352	12/14/11	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30373	03/14/12	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30394	06/27/12	37 U	29 U	51 U	24 U
SG2S	AGSG2SDUP-G-30479 ^b	01/16/13	20	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30455	10/18/12	13	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30475	01/16/13	14	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30495	04/02/13	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-30527	07/11/13	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-35718	09/17/13	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-35738	11/20/13	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-35758	02/26/14	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-36606	06/25/14	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-36818	09/30/14	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-36840	12/02/14	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-37182	03/27/15	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-38197	10/15/15	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-38748 ^c	03/17/16	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-39342	10/18/16	13 U	9.8 U	17 U	8.1 U

TABLE 4.4 (Cont.)

Location	Sample	Sample Date	Concentration ($\mu\text{g}/\text{m}^3$)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
SG2D	AGSG2D-G-17930	05/20/09	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-17937	05/26/09	57	20 U	35 U	16 U
SG2D	AGSG2D-G-17963	07/30/09	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-17966 ^b	07/30/09	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-17981	09/18/09	100	19	17 U	8.1 U
SG2D	AGSG2D-G-17994	11/25/09	14	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30134	02/12/10	20	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30141	03/23/10	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-30144 ^b	03/23/10	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30240	09/16/10	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30259	12/16/10	51	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30278	03/16/11	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-30281 ^b	03/16/11	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30310	06/07/11	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30333	10/05/11	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30353	12/14/11	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30374	03/14/12	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30395	06/27/12	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30456	10/18/12	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30476	01/16/13	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30496	04/02/13	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-30528	07/11/13	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-35719	09/17/13	e	e	e	e
SG2D	AGSG2D-G-35739	11/20/13	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-35759	02/26/14	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-36607	06/25/14	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-36819	09/30/14	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-36822 ^b	09/30/14	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-36841	12/02/14	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-37183	03/27/15	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-38198	10/15/15	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-38201	10/15/15	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-38749 ^c	03/17/16	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-39343	10/18/16	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-39881	10/17/17	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2DDUP-G-39884	10/17/17	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-17931	05/21/09	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3SDUP-G-17934 ^b	05/21/09	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-17938	05/26/09	140	100 U	180 U	85 U
SG3S	AGSG3S-G-17964	07/30/09	3,100	310	45 U	20 U
SG3S	AGSG3S-G-17982	09/18/09	6,900	1,700	180 U	81 U
SG3S	AGSG3S-G-17995	11/25/09	1,600	170	35 U	16 U
SG3S	AGSG3S-G-30135	02/12/10	2,200	160	17 U	8.1 U
SG3S	AGSG3S-G-30142	03/23/10	1,200	120	17 U	8.1 U
SG3S	AGSG3S-G-30160	05/27/10	570	73	87 U	40 U
SG3S	AGSG3S-G-30241	09/16/10	200	74 U	130 U	61 U
SG3S	AGSG3S-G-30260	12/16/10	210	13	17 U	8.1 U
SG3S	AGSG3S-G-30279	03/16/11	100	19 U	34 U	16 U
SG3S	AGSG3S-G-30311	06/07/11	31	20 U	35 U	16 U
SG3S	AGSG3S-G-30334	10/05/11	25 U	20 U	35 U	16 U
SG3S	AGSG3S-G-30354	12/14/11	16	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30375	03/14/12	16	9.8 U	17 U	8.1 U

TABLE 4.4 (Cont.)

Location	Sample	Sample Date	Concentration (µg/m ³)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
SG3S	AGSG3SDUP-G-30377 ^b	03/14/12	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30396	06/27/12	13 U	9.8 U	17 U	8.1 U
SG3S	AGSB3SDUP-G-30459 ^b	10/18/12	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30457	10/18/12	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30477	01/16/13	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30497	04/02/13	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-30529	07/11/13	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-35720	09/17/13	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-35740	11/20/13	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-35760	02/26/14	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-36608	06/25/14	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-36820	09/30/14	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-36842	12/02/14	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-37184	03/27/15	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-38199	10/15/15	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-38750 ^c	03/17/16	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-39344	10/18/16	13 U	9.8 U	17 U	8.1 U
SG3S	AGSG3S-G-39882	10/17/17	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-17932	05/20/09	6,900	1,700	20	8.1 U
SG3D	AGSG3D-G-17939	05/26/09	2,700	830	350 U	160 U
SG3D	AGSG3DDUP-G-17940 ^b	05/26/09	2,700	630	350 U	160 U
SG3D	AGSG3D-G-17965	07/30/09	6,900	1,100	69 U	32 U
SG3D	AGSG3D-G-17983	09/18/09	5,900	2,600	90 U	40 U
SG3D	AGSG3D-G-17996	11/25/09	40	28	17 U	8.1 U
SG3D	AGSG3DDUP-G-17997 ^b	11/25/09	60	42	17 U	8.1 U
SG3D	AGSG3D-G-30136	02/12/10	15	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-30143	03/23/10	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-30161	05/27/10	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-30242	09/16/10	13	12	17 U	8.1 U
SG3D	AGSG3D-G-30261	12/16/10	410	86	63 U	30 U
SG3D	AGSG3DDUP-G-30262 ^b	12/16/10	660	190	63 U	30 U
SG3D	AGSG3D-G-30280	03/16/11	330	86	32 U	15 U
SG3D	AGSG3D-G-30312	06/07/11	47	29 U	51 U	24 U
SG3D	AGSG3D-G-30335	10/05/11	49	15	17 U	8.1 U
SG3D	AGSG3DDUP-G-30336 ^b	10/05/11	130	37	17 U	8.1 U
SG3D	AGSG3D-G-30355	12/14/11	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-30376	03/14/12	59	17	17 U	8.1 U
SG3D	AGSG3D-G-30397	06/27/12	83	22	17 U	8.1 U
SG3D	AGSG3D-G-30458	10/18/12	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-30478	01/16/13	66	19	17 U	8.1 U
SG3D	AGSG3D-G-30498	04/02/13	54	18	17 U	8.1 U
SG3D	AGSG3DDUP-G-30499 ^b	04/02/13	51	17	17 U	8.1 U
SG3D	AGSG3D-G-30530	07/11/13	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-35721	09/17/13	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3DDUP-G-35722 ^b	09/17/13	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-35741	11/20/13	14	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-35761	02/26/14	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-W-36609	06/25/14	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3DDUP-W-36610 ^b	06/25/14	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-36821	09/30/14	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-36843	12/02/14	13 U	9.8 U	17 U	8.1 U

TABLE 4.4 (Cont.)

Location	Sample	Sample Date	Concentration ($\mu\text{g}/\text{m}^3$)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
SG3D	AGSG3D-G-37185	03/27/15	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3DDUP-G-37186 ^b	03/27/15	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-38200	10/15/15	25 U	20 U	35 U	16 U
SG3D	AGSG3D-G-38751 ^c	03/17/16	32 U	25 U	44 U	21 U
SG3D	AGSG3D-G-39345	10/18/16	13 U	9.9 U	18 U	8.2 U
SG3D	AGSG3D-G-39883	10/17/17	6.0 J	9.8 U	17 U	8.9
QC	AGSGBKGD-G-17933	05/21/09	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-17967	07/30/09	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-17984	09/18/09	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-17998	11/25/09	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30137	02/12/10	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30145	03/23/10	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30163	05/27/10	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30244	09/16/10	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30263	12/16/10	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30282	03/16/11	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30314	06/07/11	1.3 U	0.98 U	1.7 U	0.81 U
QC	AGBKGD-G-30337	10/05/11	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30357	12/14/11	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30378	03/14/12	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30399	06/27/12	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30460	10/18/12	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30480	01/16/13	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30500	04/02/13	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-30532	07/11/13	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-35723	09/17/13	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-35743	11/20/13	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-35763	02/26/14	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-36611	06/25/14	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-36823	09/30/14	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-36845	12/02/14	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-37187	03/27/15	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-38202	10/15/15	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-38760 ^c	03/17/16	13 U	9.8 U	17 U	8.1 U
QC	AGBKGD-G-39353	10/18/16	13 U	9.8 U	17 U	8.1 U

^a U, compound analyzed for but not detected at a level greater than or equal to the indicated method detection limit.

^b Quality control replicate sample.

^c Sampling occurred during temporary shutdown of the SVE/AS system for supplemental testing purposes, initiated on February 18, 2016.

^d Internal standard response outside QC limits.

^e Sample not analyzed. Canister received with valve open and at zero pressure.

TABLE 4.5 Analytical results for groundwater samples.

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW1	AGGW1-W-17896	05/20/09	114	8.1	ND ^a	ND	Argonne	AGEM
GW1	GW-1	05/29/09	32	6.7	–	ND	GeoCore	Accutest
GW1	GW-1	08/28/09	46	7.7	–	ND	GeoCore	Accutest
GW1	AGGW1-W-17973	09/18/09	46	5.8	ND	ND	Argonne	AGEM
GW1	GW-1	11/27/09	48	7.3	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30123	12/13/09	47	5.9	ND	ND	Argonne	AGEM
GW1	GW-1	02/25/10	36	4.2	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30149	03/23/10	11	3.2	ND	ND	Argonne	AGEM
GW1	GW-1	05/27/10	25	5.1	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30167	06/16/10	26	4.1	ND	ND	Argonne	AGEM
GW1	GW-1	08/27/10	30	5.4	ND	ND	GeoCore	Accutest
GW1	AGGW1-W-30229	09/16/10	38	5.8	ND	ND	Argonne	AGEM
GW1	GW-1	11/19/10	31	5.8	ND	ND	GeoCore	Accutest
GW1	AGGW1-W-30248	12/16/10	54	6.2	ND	ND	Argonne	AGEM
GW1	GW-1	03/01/11	40	5.5	ND	ND	GeoCore	Accutest
GW1	AGGW1-W-30267	03/16/11	42	4.8	ND	ND	Argonne	AGEM
GW1	No sample	05/25/11	b	b	b	b	GeoCore	b
GW1	AGGW1-W-30298	06/06/11	37	4.9	ND	ND	Argonne	AGEM
GW1	AGGW1-W-30321	10/05/11	38	5.2	ND	ND	Argonne	AGEM
GW1	GW-1	10/27/11	34	5.4	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30341	12/14/11	38	4.9	ND	ND	Argonne	AGEM
GW1	GW-1	01/26/12	39	5.7	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30361	03/14/12	42	4.6	ND	ND	Argonne	AGEM
GW1	GW-1	04/26/12	39	5.0	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30382	06/27/12	64	5.7	ND	ND	Argonne	AGEM
GW1	GW-1	07/31/12	45	4.8	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30444	10/18/12	68	5.0	ND	ND	Argonne	AGEM
GW1	GW-1	10/30/12	46	5.7	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30464	01/16/13	67	5.0	ND	ND	Argonne	AGEM
GW1	GW-1	02/01/13	31	3.3	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30484	04/02/13	72	4.9	ND	ND	Argonne	AGEM
GW1	GW-1	04/26/13	56	5.1	–	ND	GeoCore	Accutest
GW1	AGGW1-W-30516	07/11/13	74	4.9	ND	ND	Argonne	AGEM
GW1	GW-1	08/01/13	50	5.7	–	ND	GeoCore	Accutest
GW1	AGGW1-W-35707	09/17/13	88	5.2	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW1	GW-1	10/29/13	85	5.7	–	ND	GeoCore	Accutest
GW1	AGGW1-W-35727	11/25/13	78	4.4	ND	ND	Argonne	AGEM
GW1	GW-1	01/31/14	94	5.6	–	ND	GeoCore	Accutest
GW1	AGGW1-W-35747	02/25/14	107	5.8	ND	ND	Argonne	AGEM
GW1	GW-1	04/30/14	70	5.0	–	ND	GeoCore	Accutest
GW1	AGGW1-W-36595	06/27/14	69	3.1	ND	ND	Argonne	AGEM
GW1	GW-1	08/01/14	77	5.8	–	ND	GeoCore	Accutest
GW1	AGGW1-W-36807	09/30/14	66	4.7	ND	ND	Argonne	AGEM
GW1	GW-1	10/29/14	66	4.5	–	ND	GeoCore	Accutest
GW1	AGGW1-W-36828	12/02/14	76	5.0	ND	ND	Argonne	AGEM
GW1	GW-1	01/23/15	83	6.3	–	ND	GeoCore	Accutest
GW1	AGGW1-W-36850	03/27/15	56	5.0	ND	ND	Argonne	AGEM
GW1	GW-1	04/30/15	48	4.8	–	ND	GeoCore	Accutest
GW1	AGGW1-W-37191	06/30/15	52	5.2	ND	ND	Argonne	AGEM
GW1	GW-1	07/28/15	50	5.8	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-37216	10/16/15	69	7.3	ND	ND	Argonne	AGEM
GW1	GW-1	10/29/15	56	7.0	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-38210	01/06/16	43	4.3	ND	ND	Argonne	AGEM
GW1	GW-1	01/29/16	48	4.1	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-38243	03/16/16	28	3.3	ND	ND	Argonne	AGEM
GW1	GW-1 ^c	04/29/16	53	5.5	–	ND (1)	GeoCore	Accutest
GW1	AGG1W-W-38763 ^c	07/28/16	43	4.8	ND	ND	Argonne	AGEM
GW1	GW-1	07/28/16	49	6.0	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-39323	10/18/16	57	5.7	ND	ND	Argonne	AGEM
GW1	GW-1	10/28/16	67	6.6	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-39357	12/06/16	50	4.8	ND	ND	Argonne	AGEM
GW1	GW-1	01/30/17	57	5.4	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-39721	03/06/17	49	5.0	ND	ND	Argonne	AGEM
GW1	GW-1	04/27/17	49	5.6	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-39763	07/06/17	48	4.9	ND	ND	Argonne	AGEM
GW1	GW-1	08/01/17	47	5.5	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-39869	10/17/17	56	6.3	ND	ND	Argonne	AGEM
GW1	GW-1 ^f	11/02/17	52	6.3	–	ND (1)	GeoCore	Accutest
GW1	AGGW1-W-39891	12/14/17	64	7.1	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW2	AGGW2-W-17806	05/20/09	6,090	46	ND	ND	Argonne	AGEM
GW2	AGGW2-W-17971	09/18/09	2,491	19	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30121	12/13/09	2,817	26	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30150	03/23/10	2,943	32	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30168	06/16/10	500	13	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30230	09/16/10	1,978	24	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30249	12/16/10	2,959	28	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30268	03/16/11	3,164	21	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30299	06/06/11	2,900	20	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30322	10/05/11	4,207	22	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30342	12/14/11	2,745	44	0.5 J ^d	ND	Argonne	AGEM
GW2	AGGW2-W-30362	03/14/12	3,925	25	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30383	06/27/12	5,802	24	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30445	10/18/12	3,556	25	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30465	01/16/13	3,942	27	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30485	04/02/13	4,197	22	ND	ND	Argonne	AGEM
GW2	AGGW2-W-30517	07/11/13	4,024	22	ND	ND	Argonne	AGEM
GW2	AGGW2-W-35708	09/17/13	4,992	25	ND	ND	Argonne	AGEM
GW2	AGGW2-W-36596	06/27/14	2,291	15	ND	ND	Argonne	AGEM
GW2	AGGW2-W-36808	09/30/14	3,084	21	ND	ND	Argonne	AGEM
GW2	AGGW2-W-36829	12/02/14	4,283	23	ND	ND	Argonne	AGEM
GW2	AGGW2-W-36851	03/27/15	3,480	24	ND	ND	Argonne	AGEM
GW2	AGGW2-W-37192	06/30/15	4,256	23	ND	ND	Argonne	AGEM
GW2	AGGW2-W-37217	10/16/15	4,893	31	ND	ND	Argonne	AGEM
GW2	AGGW2-W-38211	01/06/16	3,636	23	ND	ND	Argonne	AGEM
GW2	AGGW2-W-38730 ^c	03/16/16	2,308	15	ND	ND	Argonne	AGEM
GW2	AGGW2-W-38764 ^c	07/28/16	3,106	19	ND	ND	Argonne	AGEM
GW2	AGGW2-W-39324	10/18/16	3,930	19	ND	ND	Argonne	AGEM
GW2	AGGW2-W-39358	12/07/16	4,786	21	ND	ND	Argonne	AGEM
GW2	AGGW2-W-38730 ^c	03/06/17	3,848	21	ND	ND	Argonne	AGEM
GW2	AGGW2-W-38764 ^c	07/06/17	3,324	18	ND	ND	Argonne	AGEM
GW2	AGGW2-W-39324	10/17/17	3,729 D	23	ND	ND	Argonne	AGEM
GW2	AGGW2-W-39358	12/14/17	4,270	29	ND	ND	Argonne	AGEM
GW3	AGGW3-W-17894	05/20/09	9,198	28	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW3	GW-3	05/29/09	1,210	23	–	ND	GeoCore	Accutest
GW3	GW-3	08/28/09	968	29	–	ND	GeoCore	Accutest
GW3	AGGW3-W-17968	09/18/09	1,302	15	ND	ND	Argonne	AGEM
GW3	GW-3	11/27/09	797	17	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30120	12/13/09	1,233	17	ND	ND	Argonne	AGEM
GW3	GW-3	02/25/10	733	15	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30151	03/23/10	229	10	ND	ND	Argonne	AGEM
GW3	GW-3	05/27/10	748	16	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30169	06/16/10	119	7.1	ND	ND	Argonne	AGEM
GW3	GW-3	08/27/10	913	17	ND	ND	GeoCore	Accutest
GW3	AGGW3-W-30231	09/16/10	2,219	19	ND	ND	Argonne	AGEM
GW3	GW-3	11/19/10	629	25	ND	ND	GeoCore	Accutest
GW3	AGGW3-W-30250	12/16/10	2,167	18	ND	ND	Argonne	AGEM
GW3	GW-3	03/01/11	1,180	23	ND	ND	GeoCore	Accutest
GW3	AGGW3-W-30269	03/16/11	2,422	14	ND	ND	Argonne	AGEM
GW3	No sample	05/25/11	b	b	b	b	GeoCore	b
GW3	AGGW3-W-30300	06/06/11	1,777	15	ND	ND	Argonne	AGEM
GW3	AGGW3-W-30323	10/05/11	2,429	15	ND	ND	Argonne	AGEM
GW3	GW-3	10/27/11	867	16	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30343	12/14/11	922	16	ND	ND	Argonne	AGEM
GW3	GW-3	01/26/12	857	18	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30363	03/14/12	2,015	d	ND	ND	Argonne	AGEM
GW3	GW-3	04/26/12	899	14	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30384	06/27/12	2,406	d	ND	ND	Argonne	AGEM
GW3	GW-3	07/31/12	937	12	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30446	10/18/12	2,290	15	ND	ND	Argonne	AGEM
GW3	GW-3	10/30/12	947	14	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30466	01/16/13	1,927	18	ND	ND	Argonne	AGEM
GW3	GW-3	02/01/13	84	3.8	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30486	04/02/13	2,097	56	ND	ND	Argonne	AGEM
GW3	GW-3	04/26/13	1,870	15	–	ND	GeoCore	Accutest
GW3	AGGW3-W-30518	07/11/13	2,206	16	ND	ND	Argonne	AGEM
GW3	GW-3	08/01/13	1,110	23	–	ND	GeoCore	Accutest
GW3	AGGW3-W-35709	09/17/13	2,460	16	ND	ND	Argonne	AGEM
GW3	GW-3	10/29/13	1,850	ND	–	ND	GeoCore	Accutest
GW3	AGGW3-W-35729	11/25/13	1,748	11	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW3	GW-3	01/31/14	978	ND	–	ND	GeoCore	Accutest
GW3	AGGW3-W-35749	02/25/14	2,244	13	ND	ND	Argonne	AGEM
GW3	GW-3	04/30/14	1,810	15	–	ND	GeoCore	Accutest
GW3	AGGW3-W-36597	06/27/14	1,521	9.3	ND	ND	Argonne	AGEM
GW3	GW-3	08/01/14	1,550	23	–	ND	GeoCore	Accutest
GW3	AGGW3-W-36809	09/30/14	1,523	12	ND	ND	Argonne	AGEM
GW3	GW-3	10/29/14	1,420	15	–	ND	GeoCore	Accutest
GW3	AGGW3-W-36830	12/02/14	2,069	12	ND	ND	Argonne	AGEM
GW3	GW-3	01/23/15	2,270	ND	–	ND	GeoCore	Accutest
GW3	AGGW3-W-36852	03/27/15	1,960	13	ND	ND	Argonne	AGEM
GW3	GW-3	04/30/15	1,530	ND	–	ND	GeoCore	Accutest
GW3	AGGW3-W-37193	06/30/15	1,496	13	ND	ND	Argonne	AGEM
GW3	GW-3	07/28/15	1,360	17	–	ND (1)	GeoCore	Accutest
GW3	AGGW3-W-37218	10/16/15	1,880	12	ND	ND	Argonne	AGEM
GW3	GW-3	10/29/15	1,420	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-38212	01/06/16	1,733	13	ND	ND	Argonne	AGEM
GW3	GW-3	01/29/16	1,370	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-38731 ^c	03/16/16	1,381	10	ND	ND	Argonne	AGEM
GW3	GW-3 ^c	04/29/16	1,800	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-38765 ^c	07/28/16	1,699	15	ND	ND	Argonne	AGEM
GW3	GW-3	07/28/16	1,020	ND (20)	–	ND (1)	GeoCore	Accutest
GW3	AGGW3-W-39325	10/18/16	1,753	14	ND	ND	Argonne	AGEM
GW3	GW-3	10/28/16	1,730	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-39359	12/07/16	1,815	12	ND	ND	Argonne	AGEM
GW3	GW-3	01/30/17	1,240	ND (25)	–	ND (25)	GeoCore	Accutest
GW3	AGGW3-W-39723	03/06/17	1,701	11	ND	ND	Argonne	AGEM
GW3	GW-3 ^c	04/27/17	1,100	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-39765	07/06/17	1,209	11	ND	ND	Argonne	AGEM
GW3	GW-3	08/01/17	1,130	ND (20)	–	ND (20)	GeoCore	Accutest
GW3	AGGW3-W-39871	10/17/17	986 D	11	ND	ND	Argonne	AGEM
GW3	GW-3	10/28/17	930	11	–	ND (10)	GeoCore	Accutest
GW3	AGGW3-W-39893	12/14/17	1,280	15	ND	ND	Argonne	Pace
GW4	AGGW4-W-17895	05/20/09	127	2.3	ND	ND	Argonne	AGEM
GW4	GW-4	05/29/09	79	2.6	–	ND	GeoCore	Accutest

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW4	GW-4	08/28/09	154	4.1	–	ND	GeoCore	Accutest
GW4	AGGW4-W-17972	09/18/09	150	2.2	ND	ND	Argonne	AGEM
GW4	GW-4	11/27/09	150	2.9	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30124	12/13/09	227	3.6	ND	ND	Argonne	AGEM
GW4	GW-4	02/25/10	228	3.1	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30152	03/23/10	144	2.4	ND	ND	Argonne	AGEM
GW4	GW-4	05/27/10	191	2.5	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30170	06/16/10	97	ND	ND	ND	Argonne	AGEM
GW4	GW-4	08/27/10	70	1.8	ND	ND	GeoCore	Accutest
GW4	AGGW4-W-30232	09/16/10	107	1.8	ND	ND	Argonne	AGEM
GW4	GW-4	11/19/10	78	1.7	ND	ND	GeoCore	Accutest
GW4	AGGW4-W-30251	12/16/10	171	2.2	ND	ND	Argonne	AGEM
GW4	GW-4	03/01/11	184	2.6	ND	ND	GeoCore	Accutest
GW4	AGGW4-W-30270	03/16/11	86	1.6	ND	ND	Argonne	AGEM
GW4	No sample	05/25/11	b	b	b	b	GeoCore	b
GW4	AGGW4-W-30301	06/06/11	112	1.4	ND	ND	Argonne	AGEM
GW4	AGGW4-W-30324	10/05/11	230	3.0	ND	ND	Argonne	AGEM
GW4	GW-4	10/27/11	172	2.5	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30344	12/14/11	207	2.3	ND	ND	Argonne	AGEM
GW4	GW-4	01/26/12	259	3.3	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30364	03/14/12	95	1.6	ND	ND	Argonne	AGEM
GW4	GW-4	04/26/12	199	3.2	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30385	06/27/12	171	E	ND	ND	Argonne	AGEM
GW4	GW-4	07/31/12	183	4.2	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30447	10/18/12	243	3.6	ND	ND	Argonne	AGEM
GW4	GW-4	10/30/12	262	4.1	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30467	01/16/13	229	2.8	ND	ND	Argonne	AGEM
GW4	GW-4	02/01/13	46	5.5	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30487	04/02/13	163	2.5	ND	ND	Argonne	AGEM
GW4	GW-4	04/26/13	246	3.9	–	ND	GeoCore	Accutest
GW4	AGGW4-W-30519	07/11/13	45	0.5 J	ND	ND	Argonne	AGEM
GW4	GW-4	08/01/13	236	6.7	–	ND	GeoCore	Accutest
GW4	AGGW4-W-35710	09/17/13	335	3.9	ND	ND	Argonne	AGEM
GW4	GW-4	10/29/13	243	3.9	–	ND	GeoCore	Accutest
GW4	AGGW4-W-35730	11/25/13	266	3.0	ND	ND	Argonne	AGEM
GW4	GW-4	01/31/14	337	ND	–	ND	GeoCore	Accutest

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW4	AGGW4-W-35750	02/25/14	427	2.3	ND	ND	Argonne	AGEM
GW4	GW-4	04/30/14	274	ND	–	ND	GeoCore	Accutest
GW4	AGGW4-W-36598	06/27/14	263	2.7	ND	ND	Argonne	AGEM
GW4	GW-4	08/01/14	223	ND	–	ND	GeoCore	Accutest
GW4	AGGW4-W-36810	09/30/14	281	3.3	ND	ND	Argonne	AGEM
GW4	GW-4	10/29/14	259	3.8	–	ND	GeoCore	Accutest
GW4	AGGW4-W-36831	12/02/14	334	3.6	ND	ND	Argonne	AGEM
GW4	GW-4	01/23/15	276	3.4	–	ND	GeoCore	Accutest
GW4	AGGW4-W-36853	03/27/15	256	4.1	ND	ND	Argonne	AGEM
GW4	GW-4	04/30/15	191	3.2	–	ND	GeoCore	Accutest
GW4	AGGW4-W-37194	06/30/15	325	3.7	ND	ND	Argonne	AGEM
GW4	GW-4	07/28/15	100	2.2	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-37219	10/16/15	427	4.8	ND	ND	Argonne	AGEM
GW4	GW-4	10/29/15	193	4.4	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-38213	01/06/16	200	2.7	ND	ND	Argonne	AGEM
GW4	GW-4	01/29/16	160	3.0	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-38732 ^c	03/16/16	236	2.8	ND	ND	Argonne	AGEM
GW4	GW-4 ^c	04/29/16	264	ND (5)	–	ND (5)	GeoCore	Accutest
GW4	AGGW4-W-38766 ^c	07/28/16	350	4.6	ND	ND	Argonne	AGEM
GW4	GW-4	07/28/16	288	4.8	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-39326	10/18/16	348	4.0	ND	ND	Argonne	AGEM
GW4	GW-4	10/28/16	268	ND (5)	–	ND (5)	GeoCore	Accutest
GW4	AGGW4-W-39360	12/07/16	314	3.3	ND	ND	Argonne	AGEM
GW4	GW-4	01/30/17	242	3.7	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-39724	03/06/17	288	3.3	ND	ND	Argonne	AGEM
GW4	GW-4	04/27/18	199	2.9	–	ND (2.5)	GeoCore	Accutest
GW4	AGGW4-W-39766	07/06/17	297	4.0	ND	ND	Argonne	AGEM
GW4	GW-4	08/01/17	218	3.5	–	ND (2.5)	GeoCore	Accutest
GW4	AGGW4-W-39872	10/17/17	311 D	4.4	ND	ND	Argonne	AGEM
GW4	GW-4 ^f	11/02/17	150	4.2	–	ND (1)	GeoCore	Accutest
GW4	AGGW4-W-39894	12/14/17	198	3.2	ND	ND	Argonne	Pace
GW5	AGGW5-W-17925	05/20/09	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-17974	09/18/09	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30127	12/13/09	ND	ND	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
GW5	AGGW5-W-30153	03/23/10	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30171	06/16/10	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30233	09/16/10	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30252	12/16/10	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30271	03/16/11	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30302	06/06/11	0.4 J	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30325	10/05/11	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30345	12/14/11	0.3 J	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30365	03/14/12	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30386	06/27/12	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30448	10/18/12	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30468	01/16/13	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30488	04/02/13	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-30520	07/11/13	0.3 J	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-35711	09/17/13	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-35731	11/25/13	0.3 J	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-35751	02/25/14	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-36599	06/28/14	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-36811	09/30/14	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW5-W-36832	12/02/14	ND	ND	ND	ND	Argonne	AGEM
GW5	AGMWJ-W-36848	03/27/15	ND	ND	ND	ND	Argonne	AGEM
GW5	AGMWJ-W-37189	06/30/15	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW4-W-37220	10/16/15	ND	ND	ND	ND	Argonne	AGEM
GW5	AGGW4-W-38214	01/06/16	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW5-W-38733 ^c	03/16/16	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW5-W-38767 ^c	07/28/16	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW4-W-39321	10/18/16	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW4-W-39355	12/07/16	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW4-W-39725	03/06/17	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW4-W-39767	07/06/17	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW4-W-39873	10/17/17	ND	ND	ND	ND	Argonne	AGEM
GW-5	AGGW4-W-39895	12/14/17	4.0	ND	ND	ND	Argonne	Pace
MW-J	AGMWJ-W-17908	10/29/08	32	0.3 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-17945	06/16/09	13	0.1 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-17986	11/03/09	52	0.4 J	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
MW-J	AGMWJ-W-30128	12/13/09	32	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30147	03/23/10	23	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30165	06/16/10	23	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30227	09/16/10	32	0.3 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30246	12/16/10	27	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30265	03/16/11	15	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30287	06/07/11	18	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30319	10/05/11	24	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30339	12/14/11	22	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30359	03/14/12	14	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30408	06/27/12	12	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30442	10/18/12	14	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30462	01/16/13	15	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30482	04/02/13	11	0.2 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-30505	07/10/13	12	0.2 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-35705	09/16/13	15	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-35725	11/25/13	13	0.2 J	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-35745	02/26/14	20	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-36562	06/28/14	12	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-36805	09/30/14	13	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-36826	12/02/14	18	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-36848	03/27/15	ND	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-37189	06/30/15	11	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-37205	10/14/15	19	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-38208	01/06/16	13	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-38241 ^c	03/17/16	10	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-38761 ^c	07/29/16	10	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-39321	10/18/16	10	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-39355	12/07/16	9.4	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-39369	03/07/17	12	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-39752	06/25/17	9.9	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-39867	10/17/17	9.9	ND	ND	ND	Argonne	AGEM
MW-J	AGMWJ-W-39889	12/14/17	11	ND	ND	ND	Argonne	Pace
MW-P	AGMWP-W-17914	10/28/08	318	5.5	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-17948	06/16/09	260	11	ND	ND	Argonne	AGEM

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
MW-P	AGMWP-W-17985	11/03/09	334	5.9	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30126	12/13/09	480	7.9	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30148	03/23/10	318	7.5	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30166	06/16/10	259	6.0	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30228	09/16/10	240	7.0	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30247	12/16/10	297	7.8	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30266	03/16/11	296	6.4	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30290	06/06/11	222	5.9	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30320	10/05/11	221	6.1	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30340	12/14/11	303	7.1	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30360	03/14/12	313	6.7	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30381	06/27/12	377	7.0	ND	ND	Argonne	AGEM
MW-P	AGMWP-DUP-W-30449	10/18/12	266	6.2	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30443	10/18/12	276	7.3	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30463	01/16/13	288	6.6	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30483	04/02/13	212	6.9	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-30508	07/10/13	427	6.5	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-35706	09/16/13	417	7.6	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-35726	11/25/13	432	6.8	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-35746	02/26/14	651	8.5	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-36594	06/28/14	262	4.3	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-36806	09/30/14	410	6.6	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-36827	12/02/14	552	7.4	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-36849	03/27/15	295	5.7	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-37190	06/30/15	332	5.5	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-37208	10/14/15	647	8.6	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-38209	01/06/16	438	7.1	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-38242 ^c	03/17/16	320	5.2	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-38762 ^c	07/29/16	280	5.2	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-39322	10/18/16	204	5.3	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-39356	12/07/16	311	5.3	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-39720	03/07/17	358	7.6	ND	ND	Argonne	AGEM
MW-P	AGMWP-W-39756	06/25/17	337	6.1	ND	ND	Argonne	AGEM
MW-P	AGKMWP-W-39868	10/17/17	271 D	6	ND	ND	Argonne	AGEM
MW-P	AGKMWP3-W-39888	12/14/17	200	6.3	ND	ND	Argonne	Pace

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		
KMW-03	AGKMW3-W-17900	10/28/08	2.1	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-17942	06/16/09	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW03-W-30122	12/13/09	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30146	03/23/10	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30164	06/16/10	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30226	09/16/10	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30245	12/16/10	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30264	03/16/11	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30284	06/06/11	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30318	10/05/11	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30338	12/14/11	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30358	03/14/12	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30379	06/27/12	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30441	10/18/12	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30461	01/16/13	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30481	04/02/13	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-30502	07/10/13	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-35704	09/16/13	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-35724	11/25/13	0.3 J	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-35744	02/26/14	0.9 J	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-36593	06/28/14	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-36804	09/30/14	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-36825	12/02/14	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-36847	03/27/15	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-37188	06/30/15	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-37202	10/14/15	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-38207	01/06/16	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-38240 ^c	03/17/16	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-38760 ^c	07/29/16	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-39320	10/18/16	2.4	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-39354	12/07/16	1.7	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-39368	03/07/17	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-39745	06/25/17	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-39866	10/17/17	ND	ND	ND	ND	Argonne	AGEM
KMW-03	AGKMW3-W-39888	12/14/17	ND	ND	ND	ND	Argonne	Pace

TABLE 4.5 (Cont.)

Location	Sample	Sample Date	Concentration (µg/L)				Sampled By	Analyzed By
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-DCA		

- ^a ND, compound analyzed for but not detected at a level greater than or equal to the method detection limit (< 1 µg/L).
- ^b Inaccessible because of rainwater.
- ^c Sampling occurred during temporary shutdown of the SVE/AS system for supplemental testing purposes, initiated on February 18, 2016.
- ^d J, compound identified with an estimated concentration between the instrument detection limit and the method detection limit.
- ^e Analyzed at dilution. Chloroform not detected in the diluted analysis.
- ^f Sample vial contained bubbles with diameter > 6 mm; sample not preserved to pH < 2. Reported result considered minimum value.

TABLE 4.6 Dissolved oxygen levels in groundwater since 2009.^a

Sampling Date	Dissolved Oxygen (mg/L)							
	GW1	GW2	GW3	GW4	GW5	KMW03	MW-J	MW-P
06/16/09	—	—	—	—	—	5.93	8.25	7.73
09/18/09	10.43	10.85	10.87	10.62	9.08	—	—	—
11/03/09	—	—	—	—	—	—	7.01	8.22
12/13/09	NR ^b	NR	NR	NR	NR	6.82	8.51	9.45
03/23/10	NR	NR	NR	NR	NR	7.80	8.54	10.16
06/16/10	NR	NR	NR	NR	NR	6.38	7.38	8.69
08/03/10	—	—	—	—	—	—	7.46	—
09/16/10	NR	NR	NR	NR	NR	11.19	6.98	8.19
12/16/10	9.15	10.14	8.49	9.21	8.10	7.92	7.32	8.81
03/16/11	9.80	10.29	9.62	9.23	8.93	14.30	9.23	9.03
06/06/11	10.00	9.67	9.10	9.00	8.67	7.28	7.72	8.68
10/05/11	10.73	9.44	9.35	10.08	8.62	7.12	7.09	8.15
12/14/11	NR	NR	NR	NR	NR	7.25	7.16	8.62
03/14/12	NR	NR	NR	NR	NR	6.60	7.03	7.66
06/25/12	10.11	11.00	9.68	9.97	9.12	6.35	7.23	8.42
10/18/12	9.07	9.28	9.10	9.40	8.54	7.86	8.26	9.41
01/16/13	9.63	9.39	9.13	8.01	8.29	7.70	8.20	9.50
04/02/13	9.76	9.60	9.50	9.25	8.54	6.99	6.79	8.14
07/11/13	9.98	10.77	10.58	10.07	9.25	6.10	7.49	7.35
09/16/13-09/17/13	9.65	10.55	9.43	9.63	9.10	7.33	7.45	8.61
11/25/13	12.09	12.72	13.21	12.31	11.30	7.99	8.01	9.58
02/25/14-02/26/14	16.30	17.88	18.82	19.64	12.68	11.86	10.11	20.81
06/27/14-06/28/14	9.64	9.98	9.69	9.90	9.10	7.14	0.27	0.20
09/30/14	4.42	8.05	4.04	5.20	8.89	6.24	7.15	8.25
12/02/14	8.54	7.77	4.84	5.85	4.84	4.42	4.49	4.55
03/27/15	29.75	38.24	35.22	35.39	22.30	31.40	20.48	35.18
06/30/15	9.26	10.17	8.74	7.70	8.51	7.79	8.17	9.47
10/16/15	12.42	11.23	8.23	8.10	8.35	6.59	7.56	8.28
01/06/16	9.02	8.87	8.72	8.41	9.00	7.72	8.08	9.24
03/16/16-03/17/16	9.22	9.46	8.64	8.84	8.15	7.79	7.66	8.85
07/28/16-07/29/16	8.15	8.24	7.09	8.82	7.73	7.06	6.97	8.47
10/18/16	7.40	6.99	7.10	7.44	5.70	6.28	6.19	7.51
12/06/16-12/07/16	7.99	8.56	8.55	8.55	7.39	7.62	7.00	8.82
03/06/17-07/17/17	8.02	7.44	6.79	7.24	6.15	6.08	5.90	7.20
06/25/17-07/06/17	8.69	7.44	8.60	9.31	7.80	6.56	6.93	7.63
10/17/17	8.56	7.74	7.86	8.20	7.30	6.47	6.68	7.54
12/14/17	9.56	9.33	9.34	8.66	8.00	7.83	6.73	8.38

^a Measurements by Argonne for the CCC/USDA.

^b NR, not recorded.

FIGURE 4.1 Carbon tetrachloride concentrations in groundwater in the Agra treatment area during the current reporting period, with circles representing areas within 30 ft and 80 ft of the approximate center of the LDB installations.

FIGURE 4.2a Sitewide groundwater level elevations on October 17-18, 2017, as interpreted from manually recorded data.

FIGURE 4.2b Sitewide groundwater level elevations on December 14-15, 2017, as interpreted from manually recorded data.

FIGURE 4.3a Treatment area groundwater level elevations on October 17-18, 2017, as interpreted from manually recorded data.

FIGURE 4.3b Treatment area groundwater level elevations on December 14-15, 2017, as interpreted from manually recorded data.

5 Analysis and Discussion

5.1 Effectiveness of the SVE/AS System in Removing Carbon Tetrachloride

Effective remediation of the identified soil and groundwater source at the former CCC/USDA grain storage facility requires (1) removal of contaminant mass in the unsaturated and saturated soils that is leaching into the groundwater and (2) a corresponding sustained reduction in dissolved VOCs concentrations in groundwater. The following measures are evidence of declining contaminant concentrations:

- Concentrations of carbon tetrachloride in extracted vapors dropped dramatically after system start-up, from approximately $46,000 \mu\text{g}/\text{m}^3$ (as measured in the SVE effluent) on May 29, 2009, to $39 \mu\text{g}/\text{m}^3$ on October 28, 2017.
- The carbon tetrachloride concentrations in soil gas also moderated, declining from a maximum of approximately $19,000 \mu\text{g}/\text{m}^3$ prior to system start-up (as measured at location SG1D on May 20, 2009) to an estimated maximum of $6.0 \mu\text{g}/\text{m}^3$ at SG3D, on October 17, 2017. All other sample locations on this date were below the method detection limit; estimated concentrations below the method detection limit, however, were also detected at SG1S and SG1D at levels of $1.9 \mu\text{g}/\text{m}^3$ and $3.6 \mu\text{g}/\text{m}^3$, respectively.

The remedial system has had a more limited impact on VOCs in the saturated zone. In the localized hot-spot area, initial (prior to system start-up in May 2009) maximum carbon tetrachloride concentrations were approximately $6,000 \mu\text{g}/\text{L}$ at GW2 and $9,000 \mu\text{g}/\text{L}$ at GW3. In December 2017 (for the October-December 2017 quarter), the maximum concentrations were approximately $4,300 \mu\text{g}/\text{L}$ at GW2 and $1,300 \mu\text{g}/\text{L}$ at GW3 (the maximum concentrations in October 2017 were approximately $3,700 \mu\text{g}/\text{L}$ at GW2 and $1,000 \mu\text{g}/\text{L}$ at GW3).

The VOCs in extracted vapors (SVE effluent) represent a combination of vapors withdrawn from soil pores and vapors generated by the AS wells in the LDB backfill. At system start-up, the AS system was stripping VOCs primarily from the groundwater in the LDBs, and the mass removed was relatively high. More recently, mass removal by the AS system has been limited to

the flux of dissolved VOCs entering the LDB backfill, which is controlled by groundwater flow velocities.

The initial rapid declines in VOCs concentrations in the soil gas monitoring wells and SVE wells indicate that significant amounts of the VOCs initially present were removed rapidly from the pore spaces of vadose zone soils. More recently, VOCs removal is likely occurring through relatively slow desorption from the predominantly low-permeability silt and clay in these soils.

The SVE/AS remedial system was operating well in general in 2009-2011 (with the exception of the persistent low flow at AS-5) and was effective in removing contaminant mass from the subsurface. While the radius of influence of the individual SVE wells in the vadose (unsaturated) zone provides excellent horizontal coverage in the treatment area, with substantial overlap between individual wells, the removal process also depends on groundwater flow into the LDBs. Therefore, an operating strategy to increase groundwater flow into the LDBs and hence increase their radius of influence in the saturated zone (and increase the rate of mass removal) was devised during the first half of 2012 (Argonne 2013a). Implementation and effectiveness of this optimization strategy is discussed in Section 5.2.

5.2 Optimization of System Performance

Inspection of the SVE/AS remedial system in November 2011 (Argonne 2012) led to system repairs and the installation of a larger AS blower (Argonne 2013a), plus rewiring and installation of new valves, relays, and timers (Table 1.1). Replacement of the blower resulted in consistently higher AS system pressures but not sustained improvement in the AS flow rates. The cumulative air flow in the AS system also remains below design values (Table 4.1), though the reported rates show some improvement. Overall, increased oversight has resulted in uninterrupted operation of the system from mid-January 2013 to mid-February 2016— more than three years.

In late May 2012, the SVE and AS systems were modified to permit individual operation of the SVE-3, SVE-4, and SVE-5 wells and the pulsed operation summarized in Table 5.1 (Argonne 2013a,b). Since then, monitoring data under cyclic (pulsing) operating conditions (Argonne 2013c, 2014a,b, 2015a,b, 2016a,b, 2017) have indicated limited potential for significant acceleration of the groundwater treatment via this approach. The effectiveness of pulsing and overall system performance in treating groundwater was therefore assessed with input from the

GreenField original design engineer during the January-June 2015 monitoring period. Based on the findings of this assessment (Argonne 2015b), a program of supplemental testing and sampling at the IM site was recommended in the same report to help explore an alternative operations scheme for continuation of the source area cleanup. This program included the following elements:

- Shutdown of the SVE/AS system, to investigate for rebound
- Aquifer hydraulic testing, to determine potential groundwater migration rates
- Sampling of groundwater in SVE wells for VOCs

KDHE (2015c) approved the proposal to temporarily shut down the SVE/AS system for supplemental testing and sampling purposes. Argonne initiated this program on February 18, 2016, and conducted the baseline sampling event on this date prior to system shutdown. Argonne then conducted a one-month post-shutdown sampling event in conjunction with the quarterly sampling event on March 16-17, 2016, and a five-month post-shutdown sampling event in conjunction with the quarterly sampling event on July 28-29, 2016. The temporary shutdown testing was concluded and the SVE/AS system was restarted on September 20, 2016. Argonne conducted a sampling event on September 20, 2016, upon system restart; a one-week post-restart sampling event on September 27, 2016; and a one-month post-restart sampling event in conjunction with the quarterly sampling event on October 18, 2016.

TABLE 5.1 Schedule for pulsed operation, beginning in May 2012.

Well	Cycle	Flow Rate (scfm)
<i>SVE wells</i>		
SVE-1	Continuous	10
SVE-2	Continuous	10
SVE-3	1 hr on, 2 hr off	Maximum
SVE-4	1 hr on, 2 hr off	Maximum
SVE-5	1 hr on, 2 hr off	Maximum
<i>AS wells</i>		
AS-1	2 hr on, 2 hr off	3-5
AS-2	2 hr on, 2 hr off	3-5
AS-3	On in conjunction with SVE-3	5-10
AS-4	On in conjunction with SVE-4	5-10
AS-5	On in conjunction with SVE-5	5-10

6 References

Argonne, 2002, *Final Master Work Plan: Environmental Investigations at Former CCC/USDA Facilities in Kansas, 2002 Revision*, ANL/ER/TR-02/004, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C., by Argonne National Laboratory, Argonne, Illinois, December.

Argonne, 2006, *Final Report: Results of the 2005 Investigation of Contaminant Sources at Agra, Kansas*, ANL/EVS/AGEM/TR-06-02, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C., by Argonne National Laboratory, Argonne, Illinois, July.

Argonne, 2008, *Interim Measure Work Plan/Design for Agra, Kansas*, ANL/EVS/AGEM/TR-08-06, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C., by Argonne National Laboratory, Argonne, Illinois, November.

Argonne, 2009a, *KDHE Project C6-074-00002: Quarterly Progress in October-December 2008 for Implementation of the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility in Agra, Kansas*, ANL/EVS/AGEM/CHRON-1229, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, February.

Argonne, 2009b, *KDHE Project C6-074-00002: Quarterly Progress in January-March 2009 for Implementation of the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility in Agra, Kansas*, ANL/EVS/AGEM/CHRON-1268, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, June.

Argonne, 2009c, *KDHE Project C6-074-00002: Quarterly Progress in April-June 2009 for Implementation of the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility in Agra, Kansas*, ANL/EVS/AGEM/CHRON-1295, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, October.

Argonne, 2010a, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in July-December 2009 (Two Quarters)*, ANL/EVS/AGEM/CHRON-1333, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, February.

Argonne, 2010b, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in January-March, 2010*, ANL/EVS/AGEM/CHRON-1373, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, June.

Argonne, 2010c, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in April-June, 2010*, ANL/EVS/AGEM/CHRON-1408, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, November.

Argonne, 2010d, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in July-September, 2010*, ANL/EVS/AGEM/CHRON-1417, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, December.

Argonne, 2011a, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in October-December, 2010*, ANL/EVS/AGEM/CHRON-1434, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, February.

Argonne, 2011b, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in January-March, 2011*, ANL/EVS/AGEM/CHRON-1456, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, June.

Argonne, 2011c, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in April-June, 2011*, ANL/EVS/AGEM/CHRON-1479, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, August.

Argonne, 2012, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in July-December, 2011*, ANL/EVS/AGEM/CHRON-1516, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, August.

Argonne, 2013a, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in January-June 2012*, ANL/EVS/AGEM/CHRON-1555, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, January.

Argonne, 2013b, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in July-December 2012*, ANL/EVS/AGEM/CHRON-1591, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, February.

Argonne, 2013c, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in January-June 2013*, ANL/EVS/AGEM/CHRON-1640, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, November.

Argonne, 2014a, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in July-December 2013*, ANL/EVS/AGEM/CHRON-1681, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, March.

Argonne, 2014b, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in January-June 2014*, ANL/EVS/AGEM/CHRON-1755, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, August.

Argonne, 2015a, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in July-December 2014*, ANL/EVS/AGEM/CHRON-1847, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, May.

Argonne, 2015b, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in January-June 2015*, ANL/EVS/AGEM/CHRON-1913, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, September.

Argonne, 2016a, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in July-December 2015*, ANL/EVS/AGEM/CHRON-1959, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, February.

Argonne, 2016b, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in January-June 2016*, ANL/EVS/AGEM/CHRON-2042, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, September.

Argonne, 2018, *KDHE Project C6-074-00002: Progress and Monitoring Report for the LDB/SVE/AS Interim Measure at the Former CCC/USDA Grain Storage Facility, Agra, Kansas, in January-June 2017*, ANL/EVS/AGEM/CHRON-2157, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, March.

KDHE, 2008a, *Consent Order Case No. 07-E-0028 in the Matter of Pollution at Producers Agricultural Marketing Association, Inc. Site, Agra, Kansas*, before the Kansas Department of Health and Environment, Topeka, Kansas, April 2.

KDHE, 2008b, letter from E. Finzer (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas) to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), regarding the response to KDHE comments and replacement pages for the IMWP/D, November 21.

KDHE, 2010, letter from M. Townsend (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas) to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), regarding the Agra progress and monitoring report for July-December 2009, May 20.

KDHE, 2011, letter from C. Carey (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas) to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), regarding the Agra progress and monitoring report for April-June 2011, September 14.

KDHE, 2014, letter from M. O'Halloran (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas) to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), regarding the Agra progress and monitoring report for January-June 2013, March 3.

KDHE, 2015a, letter from M. O'Halloran (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas) to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), regarding the Agra progress and monitoring report for July-December 2013, January 28.

KDHE, 2015b, letter from D. Newman (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas) to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), regarding the Agra progress and monitoring report for July-December 2014, April 24.

KDHE, 2015c, letter from D. Newman (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas) to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), regarding the Agra progress and monitoring report for January-June 2015, October 30.

KDHE, 2016, letter from D. Newman (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas) to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), regarding the Agra progress and monitoring report for July-December 2015, March 18.

KDHE, 2017, letter from K. Diediker (Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas) to C. Roe (Commodity Credit Corporation, U.S. Department of Agriculture, Washington, D.C.), regarding the Agra progress and monitoring report for July-December 2016, April 6.

Appendix A:

**Data for Argonne's Twice-Yearly Soil Gas and Quarterly Groundwater Sampling
on October 17-18, 2017**

TABLE A.1 Sequence of activities during twice-yearly soil gas and quarterly groundwater sampling at Agra, Kansas, on October 17-18, 2017.

Sample Date:Time	Location	Sample	Sample Type ^a	Depth (ft BGL)	Sample Matrix ^b	Shipment Date	Sample Description
10/17/17 9:00	QC	AGDIH2O-W-39876	FB	–	WQC	10/18/2017	Field blank of water used for equipment decontamination during the October 2017 sampling event.
10/17/17 9:00	QC	AGQCTB-W-39877	TB	–	WQC	10/18/2017	Trip blank sent with water samples shipped to AGEM Laboratory.
10/17/17 9:00	QC	AGQCTB-W-39877VER	VER	–	WQC	10/18/2017	Verification sample sent to TestAmerica, Inc., South Burlington, VT.
10/17/17 13:36	MW-P	AGMWP-W-39868	N	35.4-54.9	WG	10/18/2017	Depth to water = 44.33 ft TOC. Depth of 2-in. well = 54.92 ft. Sample collected using low flow bladder pump after purging 6.5 L.
10/17/17 13:36	MW-P	AGMWP-W-39868VER	VER	35.4-54.9	WG	10/18/2017	Verification sample sent to TestAmerica, Inc., South Burlington, VT.
10/17/17 14:54	MW-J	AGMWJ-W-39867	N	56-66	WG	10/18/2017	Depth to water = 41.98 ft TOC. Depth of 2-in. well = 66 ft. Sample collected using low flow bladder pump after purging 6 L.
10/17/17 15:32	KMW-03	AGKMW3-W-39866	N	–	WG	10/18/2017	Depth to water = 44.85 ft TOC. Depth of 2-in. well = 89 ft. Sample collected using low flow bladder pump after purging 6 L.
10/17/17 15:40	GW5	AGGW5-W-39873	N	43-53	WG	10/18/2017	Depth to water = 41.08 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 5.2 L.
10/17/17 16:20	GW1	AGGW1-W-39869	N	43-53	WG	10/18/2017	Depth to water = 41.24 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 5 L.
10/17/17 17:05	GW3	AGGW3-W-39871	N	43-53	WG	10/18/2017	Depth to water = 40.88 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 5.3 L.
10/17/17 17:05	GW3	AGGW3-W-39871VER	VER	43-53	WG	10/18/2017	Verification sample sent to TestAmerica, Inc., South Burlington, VT.
10/17/17 17:35	SG1S	AGSG1S-G-39878	N	20-21	SOIL GAS	10/18/2017	Sample collected without purge. Begin pressure -26 in. Hg. End pressure 1 in. Hg.
10/17/17 17:36	SG1D	AGSG1D-G-39879	N	29-30	SOIL GAS	10/18/2017	Sample collected after purging 3 tank volumes. Begin pressure -27 in. Hg. End pressure 0.5 in. Hg.
10/17/17 17:37	SG2S	AGSG2S-G-39880	N	20-21	SOIL GAS	10/18/2017	Sample collected without purge. Begin pressure -28 in. Hg. End pressure 0 in. Hg.

TABLE A.1 (Cont.)

Sample Date:Time	Location	Sample	Sample Type ^a	Depth (ft BGL)	Sample Matrix ^b	Shipment Date	Sample Description
10/17/17 17:38	SG2D	AGSG2D-G-39881	N	29-30	SOIL	10/18/2017	Sample collected after purging 3 tank volumes. Begin pressure -25 in. Hg. End pressure 1 in. Hg.
10/17/17 17:39	SG3S	AGSG3S-G-39882	N	20-21	GAS	10/18/2017	Sample collected without purge. Begin pressure -28 in. Hg. End pressure 0.5 in. Hg.
10/17/17 17:40	GW2	AGGW2DUP-W-39874	DUP-F	43-53	WG	10/18/2017	Field replicate.
10/17/17 17:40	GW2	AGGW2-W-39870	N	43-53	WG	10/18/2017	Depth to water = 41.41 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 5 L.
10/17/17 17:40	SG3D	AGSG3D-G-39883	N	29-30	SOIL	10/18/2017	Sample collected after purging 3 tank volumes. Begin pressure -29 in. Hg. End pressure 0.5 in. Hg.
10/17/17 17:52	SG2D	AGSG2DDUP-G-39884	DUP-F	29-30	GAS	10/18/2017	Field replicate from SG2D. Sample collected after purging 3 tank volumes. Begin pressure -27 in. Hg. End pressure 0 in. Hg.
10/17/17 18:00	QC	AGBKGD-G-39885	N	-	SOIL	10/18/2017	Sample collected without purge. Begin pressure -28 in. Hg. End pressure 0.5 in. Hg.
10/17/17 18:25	GW4	AGGW4-W-39872	N	43-53	GAS	10/18/2017	Depth to water = 41.54 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 5 L.
10/18/17 9:00	QC	AGQCTB-W-39876	TB	-	WG	10/18/2017	Trip blank sent with water samples shipped to Pace Analytical for organic analysis.
10/18/17 12:00	QC	AGIDW-W-39887	WASTE	-	WQC	10/18/2017	Composite sample of the purge water containerized on-site during the December 2016 sampling event.

^a Sample types: DUP-F, field replicate; DUP-L, duplicate lab analysis; FB, field blank; N, primary sample; RI, rinsate; TB, trip blank; VER, verification sample; WASTE, investigation-derived waste water.

^b Matrix codes: SOIL GAS, soil gas; WG, groundwater; WQC, QA/QC water sample, e.g., trip blank.

TABLE A.2 Field measurements during collection of groundwater samples on October 17, 2017.

Location	Sample	Sample Depth (ft BGL)	Temperature (Deg.C)	pH	Conductivity (μ S/cm)	Dissolved Oxygen (mg/L)	Oxygen Reduction Potential (mV)
GW1	AGGW1-W-39869	43-53	13.4	7.24	1857	8.56	222
GW2	AGGW2-W-39870	43-53	14.4	7.29	1220	7.74	215
GW3	AGGW3-W-39871	43-53	14.7	7.32	1387	7.86	215
GW4	AGGW4-W-39872	43-53	13.3	7.31	940	8.20	208
GW5	AGGW5-W-39873	43-53	12.8	7.13	1785	7.30	221
KMW-03	AGKMW3-W-39866	–	13.5	7.31	933	6.47	210
MW-J	AGMWJ-W-39867	56-66	13.5	7.20	1156	6.68	261
MW-P	AGMWP-W-39868	35.42-54.92	14.6	7.29	1355	7.54	228

TABLE A.3 TestAmerica analytical results for soil gas samples collected on October 17, 2017.^a

Location	Sample	Sample Date	Sample Type ^b	Sample Depth to (ft BGL)	Carbon Tetrachloride (µg/m ³)	Chloroform (µg/m ³)	Methylene Chloride (µg/m ³)	1,2-Dichloroethane (µg/m ³)
QC	AGBKGD-G-39885	10/17/17	N	–	13 U	9.8 U	17 U	8.1 U
SG1D	AGSG1D-G-39879	10/17/17	N	29-30	3.6 J	9.8 U	17 U	8.1 U
SG1S	AGSG1S-G-39878	10/17/17	N	20-21	1.9 J	9.8 U	17 U	3.3 J
SG2D	AGSG2DDUP-G-39884	10/17/17	DUP-F	29-30	13 U	9.8 U	17 U	8.1 U
SG2D	AGSG2D-G-39881	10/17/17	N	29-30	13 U	9.8 U	17 U	8.1 U
SG2S	AGSG2S-G-39880	10/17/17	N	20-21	13 U	9.8 U	17 U	8.1 U
SG3D	AGSG3D-G-39883	10/17/17	N	29-30	6.0 J	9.9 U	17 U	8.9
SG3S	AGSG3S-G-39882	10/17/17	N	20-21	13 U	9.8 U	17 U	8.1 U

^a Analysis by TestAmerica, Inc. (Vermont) for VOCs using EPA Method TO-15. The complete data package is in sample delivery group 200-40522 in Supplement 4 (on CD).

^b Sample types: DUP-F, field replicate; N, primary sample.

^c J, compound identified with an estimated concentration between the instrument detection limit and the method detection limit.

^d U, compound analyzed for but not detected at a level greater than or equal to the indicated method detection limit.

TABLE A.4 AGEM Laboratory analytical results for quarterly groundwater samples collected on October 17, 2017.

Location	Sample	Sample Depth (ft BGL)	Concentration (µg/L)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
GW1	AGGW1-W-39869	43-53	56	6.3	ND	ND
GW2	AGGW2-W-39870	43-53	3,729 D ^a	23	ND	ND
GW3	AGGW3-W-39871	43-53	986 D	11	ND	ND
GW4	AGGW4-W-39872	43-53	311 D	4.4	ND	ND
GW5	AGGW5-W-39873	43-53	ND ^b	ND	ND	ND
KMW-03	AGKMW3-W-39866	–	ND	ND	ND	ND
MW-J	AGMWJ-W-39867	56-66	9.9	ND	ND	ND
MW-P	AGMWP-W-39868	35.42-54.92	271 D	6.0	ND	ND

^a D, result from analysis at secondary dilution factor.

^b ND, compound analyzed for but not detected at a level greater than or equal to the method detection limit (< 1 µg/L).

TABLE A.5 AGEM Laboratory analytical results for quality control samples collected during quarterly groundwater monitoring on October 17, 2017.

Location	Sample	Sample Depth (ft BGL)	Sample Type ^a	Concentration (µg/L)			
				Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
GW2	AGGW2-W-39870	43-53	N	3,729 D	23	ND	ND
GW2	AGGW2DUP-W-39874	43-53	DUP-F	3,733 D	23	ND	ND
QC	AGDIH2O-W-39876	–	FB	ND ^b	ND	ND	ND
QC	AGQCTB-W-39877	–	TB	ND	ND	ND	ND

^a Sample types: DUP-F, field replicate; DUP-L, duplicate lab analysis; FB, field blank; N, primary sample; RI, rinsate; TB, trip blank.

^b D, result from analysis at secondary dilution factor.

^c ND, compound analyzed for but not detected at a level greater than or equal to the method detection limit (< 1 µg/L).

TABLE A.6 Analytical results for quarterly groundwater samples collected on October 17, 2017, and submitted for verification organic analysis.^a

Location	Sample	Sample Depth (ft BGL)	Analytical Laboratory	Concentration (µg/L)				Method Detection Limit
				Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane	
GW5	AGGW5-W-39871	43-53	AGEM	986 D ^b	11	ND	ND	1
GW5	AGGW5-W-39871VER	43-53	TestAmerica	840 D	12	ND	ND	0.5
MW-P	AGKMW3-W-39868	32.4-54.9	AGEM	271 D	6.0	ND	ND	1
MW-P	AGKMW3-W-39868VER	32.4-54.9	TestAmerica	310 D	6.7	ND	ND	0.5
QC	AGQCTB-W-39877	–	AGEM	ND ^c	ND	ND	ND	1
QC	AGQCTB-W-39877VER	–	TestAmerica	ND	0.2 J ^d	ND	ND	0.5

^a TestAmerica verification data are in sample delivery group 200-40524 in Supplement 5 (on CD).

^b D, result from analysis at secondary dilution factor.

^c ND, compound analyzed for but not detected at a level greater than or equal to the indicated method detection limit.

^d J, compound identified with an estimated concentration between the instrument detection limit and the method detection limit.

Appendix B:

Data for Argonne's Quarterly Groundwater Sampling on December 14-18, 2017

TABLE B.1 Sequence of activities during quarterly groundwater sampling at Agra, Kansas, on December 14-18, 2017.

Sample Date:Time	Location	Sample	Sample Type ^a	Depth (ft BGL)	Sample Matrix ^b	Shipment Date	Sample Description
12/14/17 13:00	QC	AGQCTB-W-39898	TB	–	WQC	12/18/2017	Trip blank sent with water samples shipped to AGEM Laboratory.
12/14/17 14:53	GW1	AGGW1-W-39891	N	43-53	WG	12/18/2017	Depth to water = 40.68 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 5.5 L.
12/14/17 15:03	MW-P	AGMWP-W-39890	N	35.4-54.9	WG	12/18/2017	Depth to water = 44.13 ft TOC. Depth of 2-in. well = 54.92 ft. Sample collected using low flow bladder pump after purging 6 L.
12/14/17 15:42	GW2	AGGW2-W-39892	N	43-53	WG	12/18/2017	Depth to water = 41.15 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 5.5 L.
12/14/17 15:58	MW-J	AGMWJ-W-39889	N	56-66	WG	12/18/2017	Depth to water = 41.69 ft TOC. Depth of 2-in. well = 66 ft. Sample collected using low flow bladder pump after purging 4.5 L.
12/14/17 16:20	QC	AGQCIR-W-39897	RI	–	WQC	12/18/2017	Rinsate of decontaminated sampling line after collection of sample AGMWJ-W-39889.
12/14/17 16:30	GW3	AGGW3-W-39893	N	43-53	WG	12/18/2017	Depth to water = 40.64 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 5.7 L.
12/14/17 17:06	KMW-03	AGKMW3DUP-W-39896	DUP-F	–	WG	12/18/2017	Field replicate.
12/14/17 17:06	KMW-03	AGKMW3-W-39888	N	–	WG	12/18/2017	Depth to water = 44.28 ft TOC. Depth of 2-in. well = 89 ft. Sample collected using low flow bladder pump after purging 5 L.
12/14/17 17:14	GW4	AGGW4-W-39894	N	43-53	WG	12/18/2017	Depth to water = 41.14 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 5.2 L.
12/14/17 18:02	GW5	AGGW5-W-39895	N	43-53	WG	12/18/2017	Depth to water = 41.02 ft TOC. Depth of 1-in. well = 53 ft. Sample collected using Waterra pump after purging 5.2 L.
12/18/17 17:00	QC	AGIDW-W-39899	WASTE	–	WG	12/18/2017	Composite sample of the purge water containerized on-site during the December 2017 sampling event.

TABLE B.1 (Cont.)

Sample Date:Time	Location	Sample	Sample Type ^a	Depth (ft BGL)	Sample Matrix ^b	Shipment Date	Sample Description
---------------------	----------	--------	-----------------------------	-------------------	-------------------------------	------------------	--------------------

^a Sample types: DUP-F, field replicate; N, primary sample; RI, rinsate; TB, trip blank.

^b Matrix codes: WG, groundwater; WQC, QA/QC water sample, e.g., trip blank.

TABLE B.2 Field measurements during collection of groundwater samples on December 14, 2017.

Location	Sample	Sample Depth (ft BGL)	Temperature (Deg.C)	pH	Conductivity (μS/cm)	Dissolved Oxygen (mg/L)	Oxygen Reduction Potential (mV)
GW1	AGGW1-W-39357	43-53	11.7	7.18	1661	9.56	167
GW2	AGGW2-W-39358	43-53	11.0	7.22	1185	9.33	165
GW3	AGGW3-W-39359	43-53	10.6	7.25	1316	9.34	176
GW4	AGGW4-W-39360	43-53	10.5	7.26	862	8.66	181
GW5	AGGW5-W-39361	43-53	11.0	7.08	1429	8.00	196
KMW-03	AGKMW3-W-39354	–	11.2	7.22	807	7.83	243
MW-J	AGMWJ-W-39355	54-66	12.0	7.14	953	6.73	256
MW-P	AGMWP-W-39356	35.42-54.92	11.1	7.25	1081	8.38	268

TABLE B.3 AGEM Laboratory analytical results for quarterly groundwater samples collected on December 14, 2017.

Location	Sample	Sample Depth (ft BGL)	Concentration (µg/L)			
			Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
GW1	AGGW1-W-39891	43-53	64	7.1	ND	ND
GW2	AGGW2-W-39892	43-53	4,270	29	ND	ND
GW3	AGGW3-W-39893	43-53	1,280	15	ND	ND
GW4	AGGW4-W-39894	43-53	198	3.2	ND	ND
GW5	AGGW5-W-39895	43-53	4.0	ND	ND	ND
KMW-03	AGKMW3-W-39888	–	ND	ND	ND	ND
MW-J	AGMWJ-W-39889	56-66	11	ND	ND	ND
MW-P	AGMWP-W-39890	35.4-54.9	200	6.3	ND	ND

^a ND, compound analyzed for but not detected at a level greater than or equal to the method detection limit (< 1 µg/L).

TABLE B.4 AGEM Laboratory analytical results for quality control samples collected during quarterly groundwater monitoring on December 14, 2017.

Location	Sample	Sample Depth (ft BGL)	Sample Type ^a	Concentration (µg/L)			
				Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane
KMW-03	AGKMW3-W-39888	–	N	ND ^b	ND	ND	ND
KMW-03	AGKMW3DUP-W-39896	–	DUP-F	ND	ND	ND	ND
QC	AGQCTB-W-39898	–	TB	ND	ND	ND	ND
QC	AGQCIR-W-39897	–	RI	ND	ND	ND	ND

^a Sample types: DUP-F, field replicate; DUP-L, duplicate lab analysis; N, primary sample; RI, rinsate; TB, trip blank.

^b ND, compound analyzed for but not detected at a level greater than or equal to the method detection limit (< 1 µg/L).

TABLE B.5 Analytical results for quarterly groundwater samples collected on December 6-7, 2016, and submitted for verification organic analysis.^a

Location	Sample	Sample Depth (ft BGL)	Analytical Laboratory	Concentration (µg/L)				Method Detection Limit
				Carbon Tetrachloride	Chloroform	Methylene Chloride	1,2-Dichloroethane	
GW4	AGGW4-W-39360	43-53	AGEM	314 D ^b	3.3	ND	ND	1
GW4	AGGW4-W-39360VER	43-53	TestAmerica	250 E ^c	3.7	ND	ND	0.5
MW-P	AGMWP-W-39356	35.42-54.92	AGEM	311 D	5.3	ND	ND	1
MW-P	AGMWP-W-39356VER	35.42-54.92	TestAmerica	230 D	6.7	ND	ND	0.5
QC	AGQCTB-W-39365	–	AGEM	ND ^d	ND	ND	ND	1
QC	AGQCTB-W-39365VER	–	TestAmerica	0.1 J ^e	ND	ND	ND	0.5

^a TestAmerica verification data are in sample delivery group 200-36551 in Supplement 7 (on CD).

^b D, result from analysis at secondary dilution factor.

^c E, result exceeded calibration range.

^d ND, compound analyzed for but not detected at a level greater than or equal to the indicated method detection limit.

^e J, compound identified with an estimated concentration between the instrument detection limit and the method detection limit.

Appendix C:

Well Locations and Water Level Data

TABLE C.1 Well location and completion data.

Well	Horizontal Location ^a		Reference Elevation ^a (ft AMSL)	Depth (ft BGL)		Sand Interval Elevation (ft AMSL)	
	Easting	Northing		Screen	Sand Pack	Top	Bottom
KMW01	997915	522702	1857.71	43-53	20-63	1835.15	1793.15
KMW02	998604	522716	1855.42	57-97	20-97	1833.59	1756.59
KMW03	998534	523065	1857.03	74-89	24-89	1831.4	1766.4
MW01	997831	522705	1856.9	41-51	39-53	1817.9	1803.9
MW02	997892	522640	1856.88	40-60	38-60	1816.26	1794.26
MW-B	997691	522742	1852.59	39-54	37-54.5	1815.74	1798.24
MW-C	997552	522534	1851.54	35-55	33-55	1818.89	1796.89
MW-F	997920	522543	1856.14	65-75	63-85	1790.6	1768.6
MW-G	998146	522430	1854.56	89-99	87-100	1767.79	1754.79
MW-H	997729	522837	1855.22	43-53	41-53	1814.56	1802.56
MW-I	998193	522730	1855.26	36-71	34-71	1821.38	1784.38
MW-J	998339	522914	1854.29	56-66	54-66	1800.44	1788.44
MW-K	997920	522915	1854.86	55-65	53-65	1802.18	1790.18
MW-L	998157	522251	1852.93	70-80	68-80	1785.17	1773.17
MW-M	998727	522242	1851.52	59-69	57-75	1794.82	1776.82
MW-O	997906	522816	1855.1	38-58	38-58	1817.15	1797.15
MW-P	998271	522970	1857.11	35.4-54.9	31-59	1823.5	1795.5
MW-Q	998034	522971	1857.78	43.3-62.8	38-69	1816.8	1785.8
MW-R	998105	523133	1859.43	44.5-64	38-66	1818.51	1790.51
SB15	999074	521178	1843.08	98.5-108.5	94-108.8	1746.87	1732.07
SB23	999489	520269	1830.32	100-106	99-106	1731.77	1724.77
SB23S	999487	520270	1830.46	49-55	48-55	1782.84	1775.84
SB28	998516	520640	1839.4	100-106	99-106	1741.01	1734.01
SB28S	998516	520646	1839.38	59-65	58-65	1781.91	1774.91
SB36	999115	520771	1837.93	42.7-62.7	40-64.7	1798.54	1773.84
SB38	999229	520932	1838.19	95-101	94-101	1744.65	1737.65
SB38S	999227	520927	1838.28	57-63	56-63	1782.75	1775.75
SB72	999214	522233	1845.79	59-69	57-69	1789.5	1781.5
GW1 ^b	998235	522992	1853.97	43-53	41-53	1812.97	1800.97
GW2 ^b	998264	523012	1854.28	43-53	41-53	1813.28	1801.28
GW3 ^b	998283	522995	1853.87	43-53	41-53	1812.87	1800.87
GW4 ^b	998246	523050	1854.69	43-53	41-53	1813.69	1801.69
GW5 ^b	998278	522907	1853.94	43-53	41-53	1812.94	1800.94

^a Northings and eastings are Kansas State Plane Coordinates in feet. Horizontal datum is converted North American Datum (NAD) 27. Vertical datum is National Geodetic Vertical Datum (NGVD) 29.

^b The horizontal locations for wells GW1-GW5 were established from geographic positioning system data measured in June 2009. The reference elevations for these wells were estimated in October 2012 with a transit, through comparison with the surveyed elevations for nearby wells MW-P and MW-J.

TABLE C.2 Hand-measured groundwater levels since 2009.

Easting	Northing	TOC ft AMSL	Name	7/30/09			6/28/11			10/3/12			6/6/13			9/6/13			2/15/14		
				Time	WLs		Time	WLs		Time	WLs		Time	WLs		Time	WLs		Time	WLs	
					ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL
997915	522702	1857.71	KMW-01	17:18	44.97	1812.74	11:28	44.16	1813.55	14:52	44.72	1812.99	14:26	45.57	1812.14	12:48	46.16	1811.55	14:09	46.66	1811.05
998604	522716	1855.42	KMW-02	17:47	43.73	1811.69	11:49	42.67	1812.75	15:08	43.24	1812.18	14:42	43.90	1811.52	12:42	44.46	1810.96	14:26	44.87	1810.55
998534	523065	1857.03	KMW-03							14:09	42.24	1814.79	14:04	43.06	1813.97	12:09	43.56	1813.47	11:52	44.10	1812.93
997892	522640	1856.88	MW-2	17:22	44.49	1812.39	11:33	43.64	1813.24	14:55	44.17	1812.71	14:29	45.02	1811.86	12:50	45.64	1811.24	14:14	46.14	1810.74
997691	522742	1852.59	MW-B	17:06	39.97	1812.62	11:24	39.22	1813.37	14:43	39.81	1812.78	14:18	40.65	1811.94	12:58	41.21	1811.38	14:01	41.75	1810.84
997920	522543	1856.14	MW-F	17:25	44.33	1811.81	11:36	43.44	1812.70	14:58	43.96	1812.18	14:32	44.88	1811.26	12:54	45.42	1810.72	14:18	45.95	1810.19
998193	522730	1855.26	MW-I	17:33	42.10	1813.16	11:43	41.33	1813.93	15:03	41.96	1813.30	14:38	42.74	1812.52	12:36	43.34	1811.92	14:22	43.55	1811.71
998339	522914	1854.29	MW-J	16:45	39.81	1814.48	13:48	39.07	1815.22	14:01	39.78	1814.51	13:45	40.64	1813.65	12:29	41.12	1813.17	13:43	41.59	1812.70
997920	522915	1854.86	MW-K	16:51	39.74	1815.12	13:21	39.02	1815.84	14:21	39.65	1815.21	13:50	40.49	1814.37	12:22	41.02	1813.84	13:57	41.46	1813.40
998157	522251	1852.93	MW-L	18:50	41.68	1811.25	11:12	40.86	1812.07	15:27	41.45	1811.48	15:00	42.30	1810.63	14:56	42.98	1809.95	14:45	43.28	1809.65
998727	522242	1851.52	MW-M	18:10	42.77	1808.75	12:03	41.39	1810.13	15:21	42.08	1809.44	14:54	42.53	1808.99	15:07	43.23	1808.29	14:38	43.51	1808.01
998271	522970	1857.11	MW-P	16:37	42.18	1814.93	14:10	41.46	1815.65	11:02	42.18	1814.93	11:20	43.03	1814.08	12:05	43.53	1813.58	12:00	43.97	1813.14
998034	522971	1857.78	MW-Q	16:56	42.36	1815.42	13:28	41.61	1816.17	14:17	42.22	1815.56	13:54	43.09	1814.69	12:19	43.62	1814.16	13:52	44.06	1813.72
998105	523133	1859.43	MW-R	16:33	42.56	1816.87	13:30	41.83	1817.60	14:14	42.45	1816.98	13:58	43.24	1816.19	12:14	43.85	1815.58	11:47	44.23	1815.20
999489	520269	1830.32	SB23	19:14	30.54	1799.78	10:42	27.93	1802.39	16:20	28.30	1802.02	15:34	29.05	1801.27	15:40	29.72	1800.60			
999487	520270	1830.46	SB23S	19:18	30.65	1799.81	10:45	28.02	1802.44	16:25	28.47	1801.99	15:37	29.18	1801.28	15:44	29.80	1800.66	15:04	30.06	1800.40
998516	520640	1839.40	SB28	19:00	38.18	1801.22	11:03	36.07	1803.33	15:42	36.50	1802.90	15:10	36.94	1802.46	15:59	37.98	1801.42	14:52	37.81	1801.59
998516	520646	1839.38	SB28S	18:56	38.00	1801.38	11:00	35.72	1803.66	15:55	36.33	1803.05	15:13	36.73	1802.65	15:55	37.61	1801.77	14:58	37.58	1801.80
999229	520932	1838.19	SB38	19:21	37.41	1800.78	12:36	37.02	1801.17	16:06	35.83	1802.36	15:18	36.24	1801.95	15:25	39.11	1799.08	15:19	36.88	1801.31
999227	520927	1838.28	SB38S	19:26	37.53	1800.75	12:29	36.55	1801.73	16:02	36.03	1802.25	15:24	36.37	1801.91	15:29	39.30	1798.98	15:21	36.92	1801.36
999214	522233	1845.79	SB72	18:04	37.84	1807.95	11:57	36.20	1809.59	15:16	37.05	1808.74	14:49	37.58	1808.21	15:20	38.33	1807.46	14:32	38.50	1807.29
998235	522992	1853.97	GW-1	19:59	38.40	1815.57				14:35	38.74	1815.23	12:41	39.57	1814.40	13:12	40.12	1813.85	11:34	40.58	1813.39
998264	523012	1854.28	GW-2	19:45	38.99	1815.29	14:18	38.40	1815.88	12:24	39.02	1815.26	12:45	39.98	1814.30	13:21	40.42	1813.86	11:42	40.88	1813.40
998283	522995	1853.87	GW-3	20:01	38.90	1814.97				14:31	38.68	1815.19	13:14	39.63	1814.24	13:15	40.06	1813.81	11:37	40.52	1813.35
998246	523050	1854.69	GW-4	19:38	39.09	1815.60	14:36	38.40	1816.29	12:14	39.03	1815.66	13:04	39.98	1814.71	13:07	40.48	1814.21	11:40	40.96	1813.73
998278	522907	1853.94	GW-5	19:55	38.74	1815.20	14:00	38.12	1815.82	12:39	38.88	1815.06	13:20	39.82	1814.12	13:43	40.25	1813.69	13:16	40.76	1813.18
GPS Transit Shots																					

TABLE C.2 (Cont.)

Easting	Northing	TOC ft AMSL	Name	6/10/14			7/31/14			9/30/14			11/19/14			12/2/14			2/6/15		
				Time	WLs		Time	WLs		Time	WLs		Time	WLs		Time	WLs		Time	WLs	
					ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL
997915	522702	1857.71	KMW-01	12:18	47.08	1810.63	13:57	47.30	1810.41	45.03	1812.00	12:37	47.75	1809.96	45.12	1811.91	11:56	47.84	1809.87		
998604	522716	1855.42	KMW-02	12:48	45.27	1810.15	14:23	45.53	1809.89			12:53	45.94	1809.48			11:38	46.04	1809.38		
998534	523065	1857.03	KMW-03	13:19	44.54	1812.49	13:07	44.75	1812.28			13:17	45.19	1811.84			12:38	45.30	1811.73		
997892	522640	1856.88	MW-2	13:32	46.55	1810.33	14:00	46.78	1810.10	42.44	1811.85	12:39	47.21	1809.67	42.56	1811.73	11:58	47.30	1809.58		
997691	522742	1852.59	MW-B	12:12	42.12	1810.47	13:50	42.30	1810.29			12:32	42.74	1809.85			12:06	42.87	1809.72		
997920	522543	1856.14	MW-F	12:37	46.35	1809.79	14:03	46.78	1809.36			12:42	47.04	1809.10			12:00	47.15	1808.99		
998193	522730	1855.26	MW-I	12:38	44.21	1811.05	14:12	44.45	1810.81	44.82	1812.29	12:49	44.91	1810.35	44.95	1812.16	11:44	44.82	1810.44		
998339	522914	1854.29	MW-J	13:09	42.07	1812.22	12:59	42.28	1812.01			13:11	42.70	1811.59			12:28	42.75	1811.54		
997920	522915	1854.86	MW-K	12:58	41.95	1812.91	13:20	42.15	1812.71			12:59	42.52	1812.34			12:15	42.60	1812.26		
998157	522251	1852.93	MW-L	11:52	43.85	1809.08	14:43	44.15	1808.78	44.82	1812.29	12:14	44.44	1808.49	44.95	1812.16	11:13	44.60	1808.33		
998727	522242	1851.52	MW-M	11:47	43.89	1807.63	14:36	44.27	1807.25			12:07	44.61	1806.91			11:21	44.68	1806.84		
998271	522970	1857.11	MW-P	13:35	44.43	1812.68	13:24	44.62	1812.49			13:55	45.09	1812.02			12:43	45.18	1811.93		
998034	522971	1857.78	MW-Q	13:03	44.50	1813.28	13:16	44.77	1813.01	41.39	1812.58	13:03	45.16	1812.62	41.60	1812.37	12:19	45.21	1812.57		
998105	523133	1859.43	MW-R	13:14	44.70	1814.73	13:13	45.02	1814.41			13:50	45.33	1814.10			12:33	45.38	1814.05		
999489	520269	1830.32	SB23	11:19	30.50	1799.82	15:01	30.98	1799.34			11:47	31.06	1799.26			10:40	31.17	1799.15		
999487	520270	1830.46	SB23S	11:14	30.64	1799.82	15:03	30.98	1799.48	42.22	1812.06	11:44	31.17	1799.29	42.15	1812.13	10:38	31.24	1799.22		
998516	520640	1839.40	SB28	12:03	38.37	1801.03	14:51	39.31	1800.09			12:24	38.99	1800.41			11:02	39.00	1800.40		
998516	520646	1839.38	SB28S	12:00	38.14	1801.24	14:54	38.76	1800.62			12:20	38.75	1800.63			11:06	38.78	1800.60		
999229	520932	1838.19	SB38	11:32	37.55	1800.64	15:16	41.65	1796.54	41.36	1812.51	11:51	38.55	1799.64	41.55	1812.32	10:55	38.04	1800.15		
999227	520927	1838.28	SB38S	11:28	37.61	1800.67	15:20	39.82	1798.46			11:53	38.22	1800.06			10:51	38.09	1800.19		
999214	522233	1845.79	SB72	11:40	38.85	1806.94	14:30	39.33	1806.46			12:01	39.50	1806.29			11:30	39.61	1806.18		
998235	522992	1853.97	GW-1	13:41	41.24	1812.73	13:31	41.37	1812.60	42.22	1812.06	13:39	41.67	1812.30	42.15	1812.13	12:54	41.87	1812.10		
998264	523012	1854.28	GW-2	14:21	41.34	1812.94	12:22	41.58	1812.70			13:42	41.98	1812.30			13:50	42.05	1812.23		
998283	522995	1853.87	GW-3	13:43	41.01	1812.86	13:37	41.21	1812.66			13:36	41.62	1812.25			13:00	41.74	1812.13		
998246	523050	1854.69	GW-4	13:38	41.40	1813.29	13:41	41.53	1813.16	41.69	1812.25	13:44	41.98	1812.71	41.72	1812.22	12:57	42.12	1812.57		
998278	522907	1853.94	GW-5	14:35	41.27	1812.67	12:40	41.41	1812.53			13:58	41.85	1812.09			14:09	41.89	1812.05		
GPS Transit Shots																					

TABLE C.2 (Cont.)

Easting	Northing	TOC ft AMSL	Name	5/12/15			8/4/15			11/3/15			1/29/16			7/28-8/1/16			12/6-7/16		
				Time	WLs		Time	WLs		Time	WLs		Time	WLs		Time	WLs		Time	WLs	
					ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL
997915	522702	1857.71	KMW-01	11:45	48.10	1809.61	11:57	48.41	1809.30	12:21	48.63	1809.08	12:50	48.62	1809.09	14:10	48.60	1809.11	16:14	48.72	1808.99
998604	522716	1855.42	KMW-02	12:01	46.35	1809.07	11:48	46.67	1808.75	12:11	46.86	1808.56	13:20	46.91	1808.51	14:20	46.89	1808.53	15:52	46.69	1808.73
998534	523065	1857.03	KMW-03	12:26	45.62	1811.41	12:34	45.87	1811.16	13:02	46.07	1810.96	12:25	46.20	1810.83	10:53	46.70	1810.33	12:55	45.95	1811.08
997892	522640	1856.88	MW-2	11:48	47.55	1809.33	11:59	47.86	1809.02	12:26	48.11	1808.77	12:55	48.10	1808.78	14:30	48.10	1808.78	16:09	48.23	1808.65
997691	522742	1852.59	MW-B	11:40	43.07	1809.52	12:09	43.36	1809.23	12:37	43.55	1809.04	12:45	44.55	1808.04	14:40	43.50	1809.09	16:19	43.58	1809.01
997920	522543	1856.14	MW-F	11:51	47.41	1808.73	12:03	47.73	1808.41	12:29	47.99	1808.15	13:00	47.95	1808.19	14:50	48.00	1808.14	16:04	48.14	1808.00
998193	522730	1855.26	MW-I	11:57	45.28	1809.98	11:53	45.54	1809.72	12:16	45.79	1809.47	13:15	46.70	1808.56	15:00	45.75	1809.51	15:57	45.77	1809.49
998339	522914	1854.29	MW-J	12:46	43.17	1811.12	12:25	43.21	1811.08	12:58	43.53	1810.76	14:30	43.55	1810.74	12:00	43.55	1810.74	13:40	43.43	1810.86
997920	522915	1854.86	MW-K	12:09	42.90	1811.96	12:14	43.17	1811.69	12:43	43.33	1811.53	12:37	43.30	1811.56	15:10	43.25	1811.61	16:25	45.69	1809.17
998157	522251	1852.93	MW-L	11:33	44.84	1808.09	11:28	45.18	1807.75	12:05	45.59	1807.34	13:10	45.52	1807.41	15:20	45.55	1807.38	15:42	45.29	1807.64
998727	522242	1851.52	MW-M	11:28	44.99	1806.53	11:33	45.35	1806.17	12:00	45.61	1805.91	13:25	45.55	1805.97	15:30	45.60	1805.92	15:47	45.28	1806.24
998271	522970	1857.11	MW-P	12:30	45.52	1811.59	12:49	45.58	1811.53	13:18	45.95	1811.16	12:27	45.93	1811.18	11:10	45.95	1811.16	11:30	45.92	1811.19
998034	522971	1857.78	MW-Q	12:13	45.58	1812.20	12:19	45.82	1811.96	12:48	46.00	1811.78	12:35	45.95	1811.83				16:40	45.83	1811.95
998105	523133	1859.43	MW-R	12:20	45.79	1813.64	12:33	46.03	1813.40	12:52	46.20	1813.23	12:23	46.22	1813.21	15:40	46.33	1813.10	16:35	46.05	1813.38
999489	520269	1830.32	SB23	10:51	31.58	1798.74	10:56	32.01	1798.31	11:21	31.80	1798.52	14:00	32.10	1798.22	13:10	32.55	1797.77	15:17	32.21	1798.11
999487	520270	1830.46	SB23S	10:52	31.75	1798.71	10:51	32.14	1798.32	11:17	32.33	1798.13	13:55	32.20	1798.26	13:00	32.55	1797.91	15:15	32.38	1798.08
998516	520640	1839.40	SB28	11:02	39.49	1799.91	11:14	40.23	1799.17	11:45	40.10	1799.30	14:10	39.90	1799.50	13:50	40.85	1798.55	15:36	40.14	1799.26
998516	520646	1839.38	SB28S	11:03	39.28	1800.10	11:18	39.69	1799.69	11:42	39.95	1799.43	14:15	39.70	1799.68	13:40	40.30	1799.08	15:33	39.9	1799.48
999229	520932	1838.19	SB38	11:13	38.77	1799.42	11:02	42.51	1795.68	11:28	39.35	1798.84	13:42	39.30	1798.89	13:30	43.30	1794.89	15:23	39.41	1798.78
999227	520927	1838.28	SB38S	11:11	38.70	1799.58	11:06	40.58	1797.70	11:32	39.44	1798.84	13:40	39.10	1799.18	13:20	41.20	1797.08	15:26	39.48	1798.80
999214	522233	1845.79	SB72	11:22	39.96	1805.83	11:42	40.25	1805.54	11:54	40.51	1805.28	13:30	39.80	1805.99	14:00	40.35	1805.44	15:57	40.17	1805.62
998235	522992	1853.97	GW-1	12:37	42.18	1811.79	13:28	42.09	1811.88	13:12	42.52	1811.45	12:33	42.46	1811.51	9:45	42.55	1811.42	17:10	42.37	1811.60
998264	523012	1854.28	GW-2	14:20	42.50	1811.78	13:33	42.55	1811.73	15:02	42.81	1811.47	14:20	42.85	1811.43	11:40	43.40	1810.88	9:07	42.79	1811.49
998283	522995	1853.87	GW-3	12:34	42.17	1811.70	13:31	42.08	1811.79	13:15	42.48	1811.39	12:29	42.39	1811.48	10:15	42.60	1811.27	9:15	42.46	1811.41
998246	523050	1854.69	GW-4	12:41	42.49	1812.20	13:26	42.56	1812.13	13:07	42.85	1811.84	12:31	43.34	1811.35	11:00	42.95	1811.74	10:40	42.72	1811.97
998278	522907	1853.94	GW-5	14:35	42.31	1811.63	15:04	42.16	1811.78	15:18	42.61	1811.33	14:25	42.60	1811.34	12:20	42.75	1811.19	14:24	42.59	1811.35
GPS Transit Shots																					

TABLE C.2 (Cont.)

Easting	Northing	TOC ft AMSL	Name	3/6&10/17			6/25-7/6/17			7/7/17			10/17-18/2017			12/14-15/2017		
				Time	WLS		Time	WLS		Time	WLS		Time	WLS		Time	WLS	
					ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL		ft TOC	ft AMSL
997915	522702	1857.71	KMW-01	12:05	48.49	1809.22	13:08	48.04	1809.67	12:04	48.04	1809.67	10:00	47.39	1810.32	11:35	46.89	1810.82
998604	522716	1855.42	KMW-02	12:25	46.66	1808.76	11:55	46.08	1809.34	9:49	46.08	1809.34	10:05	45.52	1809.90	11:30	44.39	1811.03
998534	523065	1857.03	KMW-03		45.93	1811.10	15:20	45.53	1811.50				15:02	44.85	1812.18	16:32	44.28	1812.75
997892	522640	1856.88	MW-2	12:10	47.96	1808.92	16:05	47.54	1809.34	12:09	47.54	1809.34	9:55	46.91	1809.97	11:25	46.41	1810.47
997691	522742	1852.59	MW-B	12:00	43.46	1809.13				11:59	42.82	1809.77	10:15	42.28	1810.31	11:20	41.83	1810.76
997920	522543	1856.14	MW-F	12:15	47.83	1808.31	17:20	47.43	1808.71	12:14	47.43	1808.71	9:50	46.79	1809.35	11:15	46.26	1809.88
998193	522730	1855.26	MW-I	12:20	45.6	1809.66	16:40	45.04	1810.22	10:09	45.04	1810.22	10:10	44.42	1810.84	11:10	43.92	1811.34
998339	522914	1854.29	MW-J	12:00	43.52	1810.77	17:26	42.81	1811.48	10:45	42.81	1811.48	14:20	41.98	1812.31	15:24	41.69	1812.60
997920	522915	1854.86	MW-K	11:55	43.11	1811.75				10:38	42.56	1812.30	10:20	41.91	1812.95	10:55	41.46	1813.40
998157	522251	1852.93	MW-L	12:25	45.28	1807.65	10:50	44.92	1808.01	12:29	44.92	1808.01	9:45	44.31	1808.62	11:05	43.67	1809.26
998727	522242	1851.52	MW-M	12:30	45.19	1806.33	19:45	44.69	1806.83	12:37	44.68	1806.84	9:40	44.16	1807.36	11:40	43.45	1808.07
998271	522970	1857.11	MW-P	13:25	45.89	1811.22	16:20	45.26	1811.85	11:32	45.26	1811.85	13:00	44.33	1812.78	14:25	44.13	1812.98
998034	522971	1857.78	MW-Q	11:40	45.81	1811.97	18:45	45.28	1812.50	11:04	45.28	1812.50	10:25	44.57	1813.21	10:35	44.08	1813.70
998105	523133	1859.43	MW-R	11:50	46.01	1813.42	13:50	45.91	1813.52	11:54	45.91	1813.52	10:30	44.78	1814.65	11:00	44.25	1815.18
999489	520269	1830.32	SB23	13:05	32.34	1797.98				9:05	31.75	1798.57	9:00	30.89	1799.43	12:10	30.13	1800.19
999487	520270	1830.46	SB23S	13:07	32.24	1798.22	13:15	31.82	1798.64	9:00	31.83	1798.63	9:05	31.03	1799.43	12:15	30.24	1800.22
998516	520640	1839.40	SB28	13:15	40.16	1799.24				9:34	39.77	1799.63	9:20	38.94	1800.46	12:00	38.34	1801.06
998516	520646	1839.38	SB28S	13:17	39.91	1799.47				9:30	39.56	1799.82	9:15	38.67	1800.71	12:05	38.16	1801.22
999229	520932	1838.19	SB38	12:47	39.42	1798.77				9:23	39.12	1799.07	9:30	37.68	1800.51	11:55	37.61	1800.58
999227	520927	1838.28	SB38S	12:45	39.52	1798.76	11:20	40.99	1797.29	9:18	40.98	1797.30	9:25	37.71	1800.57	11:50	37.02	1801.26
999214	522233	1845.79	SB72	12:40	40.18	1805.61	17:45	39.18	1806.61	9:43	39.2	1806.59	9:35	38.47	1807.32	11:45	38.21	1807.58
998235	522992	1853.97	GW-1	16:45	42.14	1811.83	15:20	41.62	1812.35	11:51	41.64	1812.33	15:45	41.24	1812.73	14:30	40.68	1813.29
998264	523012	1854.28	GW-2	17:32	42.62	1811.66	16:05	42.33	1811.95	11:10			17:10	41.41	1812.87	15:15	41.15	1813.13
998283	522995	1853.87	GW-3	18:30	42.31	1811.56	17:05	41.66	1812.21	11:21	41.68	1812.19	16:30	40.88	1812.99	16:10	40.64	1813.23
998246	523050	1854.69	GW-4	19:15	42.55	1812.14	17:55	42.08	1812.61	11:27	42.1	1812.59	17:50	41.54	1813.15	16:50	41.14	1813.55
998278	522907	1853.94	GW-5	19:23	42.55	1811.39	18:50	41.83	1812.11	10:55	41.74	1812.20	14:50	41.08	1812.86	17:40	41.02	1812.92
GPS Transit Shots				Values in red measured on 10/17 before sampling													Values in red measured on 12/14 before sampling	

Supplement 1:

GreenField Report for Quarterly OMM Event on August 1, 2017

September 12, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
Eighth Quarterly OMM Report of the Fourth OMM Contract**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of the quarterly OMM report of the referenced site. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

Melisa D. McElwee

Melisa McElwee
GreenField Contractors, Inc.

Fourth Quarterly Report of the Third Scope of OMM Services

**Former Agra Commodity Credit Corporation, United States
Department of Agriculture Grain Storage Facility
Agra, Kansas**

**KDHE Project Code: C6-074-00002
Legal Description: SW ¼, SE ¼, NW ¼, S27, T3S, R16W
Phillips County, Kansas**

**Prepared for:
Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843**

**Submitted by:
GreenField Contractors, Inc.
Tim Pace, Remedial Director
P.O. Box 677
Salina, Kansas 67401-0677
(785)-822-0900**

September 12, 2017

GreenField Contractors, Inc.

TABLE OF CONTENTS

SECTION 1.0 OPERATION, MAINTENANCE AND MONITORING

1.1 Operation and Maintenance.	1
1.2 Monitoring.	1

SECTION 2.0 TABLES

Section 1	Summary of Remedial Action
Section 2	Groundwater/Vapor Extraction/Injection Information
Section 3	System Down Time Summary
Section 4	History of Major Maintenance/Repair Activities
Section 6	Well Inventory Table (Onsite and Offsite Wells)
Section 7	Groundwater Elevations
Section 10	Monitoring & Recovery Well Analytical
Section 14	Groundwater Trends
Section 15	Soil Vapor Extraction (SVE) Unit Field and Laboratory Analytical Results
Section 17	SVE Well Field and Laboratory Analysis Results
Section 18	Air Sparge (ASP) Wells/System Operation
Section 19	SVE Well/Unit Vacuum Extraction Flow Rates and Totalizer / Analyzer Readings
Section 20	Operation and Maintenance Costs vs. Time
Section 21	Permits
Section 22	System Operation Time

SECTION 3.0 FIGURES

Figure 1	Remediation Site Map
Figure 2	Carbon Tetrachloride in Groundwater
Figure 3	Chloroform in Groundwater
Figure 4	1,2 DCA in Groundwater

SECTION 4.0 APPENDICES

Appendix 1	Laboratory Data
Appendix 2	Field Notes

1.0 OPERATION, MAINTENANCE AND MONITORING

This quarterly OMM report for the USDA/CCC site located in Agra, Kansas, documents site activities from the eighth quarter of operation under the fourth scope of OMM services.

1.1 Operation and Maintenance

Between April 27th, 2017 and August 1st, 2017, two monthly OMM event and one quarterly OMM event was conducted at the Agra CCC/USDA site. The SVE and AS systems operated throughout the quarter. Vapor samples were collected from each individual SVE well line at the SVE manifold and one from the SVE effluent stack at the quarterly OMM event for laboratory analysis of carbon tetrachloride, chloroform, and 1,2 DCA. Groundwater samples were collected from onsite wells GW-1, 3, and 4 at the quarterly OMM event. General maintenance was conducted on the SVE and ASP systems as well.

Soil Vapor Extraction System

The SVE system operates SVE wells SVE-1 & 2 continuously while SVE-3, 4, & 5 are individually operated on alternating intervals. For consistency, SVE operating parameters are collected when SVE-1, 2, & 3 are operating. The SVE system operated at an average pre-filter vacuum of 59.0 inches of water and an average manifold flow rate of 150 cubic feet per minute (cfm) this quarter with the air dilution valve closed.

Monitoring activities on the SVE vapors included measuring total volatile organic compounds (VOC's), carbon dioxide, and oxygen concentrations on the SVE manifold and on each individual well line. Oxygen concentrations maintained 20.9 percent of extracted air. Carbon dioxide levels were at non-detectable levels. The vapor samples were collected from the SVE Effluent and the individual well lines at the SVE manifold at the quarterly OMM event. Vapor samples collected at the SVE manifold were analyzed via EPA Method TO-15 for VOC's carbon tetrachloride, chloroform, and 1,2 DCA. Carbon tetrachloride was detected in four of the six air samples collected ranging in concentration from 15 to 378 ug/m³. Chloroform was detected in the SVE-3 and SVE-5 air samples at 1.9 ug/m³ and 3.4 ug/m³, respectively. 1,2 DCA was not detected above laboratory detection limits in any of the air samples analyzed.

Air Sparge System

The AS system operated at an average pressure of 17.1 psi and an average cumulative airflow rate of 11 scfm this quarter. Wellhead pressures ranged from 3.42 psi to greater than 10 psi. Individual well line airflow rates ranged from 2.5 to 5.0 scfm. The AS-4 well line flowmeter was noted to be broken. A replacement meter is on order. The well line was deactivated until a replacement flowmeter can be installed.

1.2 Monitoring

Monitoring Wells

Groundwater samples were collected at the quarterly OMM event. The samples were analyzed for chloroform, carbon tetrachloride, and 1,2 DCA. Carbon tetrachloride was detected in the three groundwater samples ranging in concentration from 46.7 to 1,130 ug/L. Chloroform was detected in the GW-1 groundwater sample at 5.5 ug/L and the GW-4 sample at 3.5 ug/L. 1,2 DCA was not detected in the three groundwater samples analyzed. However, minimum detection levels were elevated in the GW-3 and GW-4 samples to 20 ug/L and 2.5 ug/L, respectively.

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA
Facility Address: 671 Railroad Ave. Agra, KS
Consultant: GreenField Contractors Inc.
Reporting Period: 4/27/2017 through 8/1/2017
Days In Reporting Period 96

Project #: 1491
Consultant Project Mgr.: Tim Pace
Number of Days SVE System Operating: 96
Number of Days ASP System Operating: 96

Section 1 - Summary of Remedial Action

Groundwater:

Pump & Treat: **Total Fluids Pumps (Electric)** **Dual Phase Pumps (Electric)**
 Total Fluids Pumps (Pneumatic) **Dual Phase Pumps (Pneumatic)**
 With Off-gas Treatment **W/O Off-gas Treatment**
Yes **Air Sparge System:**
Recovery Trench(es): **NO** **L** **ft.** **W** **ft.** **D** **ft.**
No. of GW Recovery Wells: **No. of Sparge Wel** **Yes**
Startup Dates: **GW Pump & Treat** **Sparge** 5 **Off-gas Treatment**

ISOC System: **No. of ISOC Wells:**
Startup Dates: **ISOC**

Water Treatment System: **Carbon** **Air Stripper Tower** **Tray Stripper**
 Other (Specify):
Public Well Treatment System: **Carbon** **Air Stripper Tower** **Tray Stripper**
 Other (Specify):
Disposition of Treated Water: **Sanitary Sewer** **NPDES** **Reinjection**
 Other (Specify):

Soil:

YES **Vapor Extraction System:** **With Off-gas Treatment** **W/O Off-gas Treatment:**
No. of SVE Wells: 5 **Startup Dates:** **VES** **Off-gas Treatment**

Comments:

SVE and ASP wells are installed in large diameter borings(LDBs)

Quarterly Monitoring Report					
Facility Name:	<u>Former Agra CCC/USDA</u>			Project #:	<u>1491</u>
Continued Section 1 - Summary of Remedial Action					
Major Equipment on Site:					
Skimmer Pumps:	Brand _____	Type _____	Capacity _____	Date _____	Warr. Exp. _____
Groundwater Pumps:	Brand _____	Type _____	Capacity _____	Date _____	
Pre-Treatment/Filter:	Brand _____	Type _____		Date _____	
Air Stripper:	Brand _____	Type _____	Capacity _____	Date _____	
Enclosure Type:	Fence _____	Building _____	Skid _____	Other _____	Trailer _____
Transfer Pumps:	Brand _____	Type _____	Capacity _____	Date _____	
Air Compressor:	Brand _____	Type _____		Date _____	
SVE Vacuum Pump:	Brand <u>Republic</u>	Type <u>HRB-900E</u>	Capacity _____	Date _____	
Sparge Blower Pump:	Brand <u>Reitschle</u>	Type <u>DLT-40</u>	Capacity _____	Date _____	
Oil/H2O Separator:	Brand _____	Type _____	Capacity _____	Date _____	
Knockout Tank:	Brand <u>Ametek</u>	Type <u>M5350B</u>	Capacity <u>350 cfm</u>	Date _____	
Vapor Phase Carbon:	Brand _____	Type _____		Date _____	
Water Phase Carbon:	Brand _____	Type _____		Date _____	
PWS Treatment Equip.	Brand _____	Type _____	Capacity _____	Date _____	
Telemetry:	Model <u>Sensaphone 2000</u>	Type _____		Date _____	
Off-gas Treatment Equip.:	Brand _____	Type _____	Capacity _____	Date _____	
ISOC Oxygen Injection System:	Brand _____	Type _____	Capacity _____	Date _____	

Section 2 - Groundwater/Vapor Extraction/Injection Information					
Design Air Flow Rate for Vapor Extraction System:	—	CFM			
Actual Ave. Flow Rate During 1st. Month of Operation:	<u>255.50</u>	CFM			
Actual Average System Flow Rate Since Start-up:	<u>192.42</u>	CFM			
Reporting Period Average Flow Rate:	<u>150.00</u>	CFM			
Blower Operation:	<u>X</u>	Continual	<u> </u>	Cycling	
Design Air Flow Rate for Air Sparge System:	<u>20.00</u>	CFM			
Actual Ave. Flow Rate During 1st. Month of Operation:	<u>19.10</u>	CFM			
Actual Average System Flow Rate Since Start-up:	<u>13.66</u>	CFM			
Reporting Period Average Flow Rate:	<u>10.83</u>	CFM			
Blower Operation:	<u>X</u>	Continual	<u> </u>	Cycling	

<div> <div> Quarterly Monitoring Report </div> </div>		
Facility Name:	Former Agra CCC/USDA	Project #: 1491
Section 3 - System Down Time Summary (Current Reporting Period Only)		
Dates		Explanation for Down Time Indicate Corrective Measures Taken
From	To	

Facility Name:		Former Agra CCC/USDA		Project #:		1491	
Section 6 - Well Inventory (Onsite and Offsite Wells)							
Wells				Wells			
Well No.	Date Install	Dia. (in.)	Screened Interval (ft)	Well No.	Date Install	Dia. (in.)	Screened Interval (ft)
GW-1				SVE-1		4	20-40
GW-3				SVE-2		4	20-40
GW-4				SVE-3		4	20-40
				SVE-4		4	20-40
				SVE-5		4	20-40
				AS-1		2	51.37-53.37
				AS-2		2	58-60
				AS-3		2	53.9-55.9
				AS-4		2	58-60
				AS-5		2	56.27-58.27

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 5/29/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.02		NA	NA
GW-3		—		NA	NA
GW-4		39.93		NA	NA

Date: 8/28/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.26		NA	NA
GW-3		39.16		NA	NA
GW-4		39.85		NA	NA

Date: 11/27/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		38.22		NA	NA
GW-3		38.25		NA	NA
GW-4		39.36		NA	NA

Date: 2/25/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.40		NA	NA
GW-3		37.94		NA	NA
GW-4		39.44		NA	NA

Date: 5/27/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.97		NA	NA
GW-3		38.36		NA	NA
GW-4		39.51		NA	NA

Date: 8/27/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.73		NA	NA
GW-3		37.73		NA	NA
GW-4		38.96		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 11/19/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.78		NA	NA
GW-3		37.72		NA	NA
GW-4		39.12		NA	NA

Date: 3/1/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.30		NA	NA
GW-3		37.92		NA	NA
GW-4		38.05		NA	NA

Date: 5/25/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		NA		NA	NA
GW-3		NA		NA	NA
*GW-4		NA		NA	NA

* SWL'S not collected. Wellheads under water.

Date: 10/27/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		NA		NA	NA
*GW-3		NA		NA	NA
*GW-4		NA		NA	NA

* No SWL'S. Water level indicator probe too big for 1" wells.

Date: 1/26/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		37.98		NA	NA
*GW-3		38.95		NA	NA
*GW-4		39.10		NA	NA

* No SWL'S. Water level indicator faulty.

Date: 4/26/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		37.98		NA	NA
*GW-3		38.95		NA	NA
*GW-4		39.10		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 7/31/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		38.40		NA	NA
*GW-3		38.40		NA	NA
*GW-4		39.30		NA	NA

Date: 10/30/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		38.92		NA	NA
*GW-3		38.87		NA	NA
*GW-4		39.91		NA	NA

Date: 2/1/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.12		NA	NA
*GW-3		39.04		NA	NA
*GW-4		40.28		NA	NA

Date: 4/26/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.41		NA	NA
*GW-3		39.26		NA	NA
*GW-4		40.41		NA	NA

Date: 8/1/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.93		NA	NA
*GW-3		39.79		NA	NA
*GW-4		40.20		NA	NA

Date: 10/29/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		40.28		NA	NA
*GW-3		40.20		NA	NA
*GW-4		40.48		NA	NA

Date: 1/31/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		40.55		NA	NA
*GW-3		40.47		NA	NA
*GW-4		40.91		NA	NA

Date: 4/30/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.02		NA	NA
*GW-3		40.89		NA	NA
*GW-4		41.28		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 8/1/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.27		NA	NA
*GW-3		41.21		NA	NA
*GW-4		41.59		NA	NA

Date: 10/29/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.57		NA	NA
*GW-3		41.51		NA	NA
*GW-4		41.84		NA	NA

Date: 1/23/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.62		NA	NA
*GW-3		41.56		NA	NA
*GW-4		41.96		NA	NA

Date: 4/30/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.95		NA	NA
*GW-3		41.92		NA	NA
*GW-4		42.28		NA	NA

Date: 7/28/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.04		NA	NA
*GW-3		42.08		NA	NA
*GW-4		42.52		NA	NA

Date: 10/29/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.53		NA	NA
*GW-3		42.43		NA	NA
*GW-4		42.85		NA	NA

Date: 1/29/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.37		NA	NA
*GW-3		42.21		NA	NA
*GW-4		42.80		NA	NA

Date: 4/29/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.64		NA	NA
*GW-3		42.66		NA	NA
*GW-4		42.84		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 7/28/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.55		NA	NA
*GW-3		42.60		NA	NA
*GW-4		42.95		NA	NA

Date: 10/28/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.01		NA	NA
*GW-3		41.99		NA	NA
*GW-4		42.41		NA	NA

Date: 1/30/2017

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.27		NA	NA
*GW-3		42.23		NA	NA
*GW-4		42.63		NA	NA

Date: 4/27/2017

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.27		NA	NA
*GW-3		42.18		NA	NA
*GW-4		42.59		NA	NA

Date: 8/1/2017

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.68		NA	NA
*GW-3		41.56		NA	NA
*GW-4		41.93		NA	NA

Quarterly Monitoring Report									
Facility Name:		Former Agra CCC/USDA			Project #: 1491				
Section 10A - Monitoring & Recovery Well Analytical									
(Use ppb units)									
Method		Chloroform	Carbon tetrachloride	1,2-Dichloroethane					Volume Purged (gallons)
Det. Level		8260B	8260B	8260B					
Well I.D.	Date	0.5	0.5	0.5					
GW-1	5/29/09	6.7	31.7	ND(1)					NA
	8/28/09	7.7	45.9	ND(1)					NA
	11/27/09	7.3	48.3	ND(1)					NA
	2/25/10	4.2	35.8	ND(1)					NA
	5/27/10	5.1	24.8	ND(1)					NA
	8/27/10	5.4	30.3	ND(1)					NA
	11/19/10	5.8	31.2	ND(1)					NA
	3/1/11	5.5	39.8	ND(1)					NA
	5/25/11	Unable to access due to rain water							
	10/27/11	5.4	34	ND(1)					NA
	1/26/12	5.7	38.9	ND(1)					NA
	4/26/12	5	39.3	ND(1)					NA
	7/31/12	4.8	45	ND(1)					NA
	10/30/12	5.7	45.6	ND(1)					NA
	2/1/13	3.3	30.7	ND(1)					NA
	4/26/13	5.1	56.2	ND(1)					NA
	8/1/13	5.7	50.3	ND(1)					NA
	10/29/13	5.7	84.6	ND(1)					NA
	1/31/14	5.6	93.7	ND(1)					NA
	4/30/14	5	70	ND(1)					NA
	8/1/14	5.8	76.6	ND(1)					NA
	10/29/14	4.5	66.1	ND(1)					NA
	1/23/15	6.3	82.7	ND(1)					NA
	4/30/15	4.8	48	ND(1)					NA
	7/28/15	5.8	49.7	ND(1)					NA
	10/29/15	7	55.8	ND(1)					NA
	1/29/16	4.1	47.6	ND(1)					NA
	4/29/16	5.5	53	ND(1)					NA
	7/28/16	6	49.3	ND(1)					1
	*10/28/2016	6.6	67.4	ND(1)					1
	1/30/17	5.4	57.2	ND(1)					1
	4/27/17	5.6	48.9	ND(1)					1
	8/1/17	5.5	46.7	ND(1)					1
*Sample not preserved to a pH<2.									
Method		Chloroform	Carbon tetrachloride	1,2-Dichloroethane					Volume Purged (gallons)
Det. Level		8260B	8260B	8260B					
Well I.D.	Date	0.5	0.5	0.5					
GW-3	5/29/09	22.7	1210	ND(1)					NA
	8/28/09	29.4	968	ND(20)					NA
	11/27/09	17.4	797	ND(10)					NA
	2/25/10	15.2	733	ND(5)					NA
	5/27/10	16	748	ND(5)					NA
	8/27/10	17.4	913	ND(10)					NA
	11/19/10	25.2	629	ND(10)					NA
	3/1/11	23.3	1180	ND(1)					NA
	5/25/11	Unable to access due to rain water							
	10/27/11	16.2	867	ND(10)					NA
	1/26/12	17.6	857						

*Sample not preserved to a pH<2.

Facility Name:		Former Agra CCC/USDA			Quarterly Monitoring Report					Project #: 1491	
Section 10A - Monitoring & Recovery Well Analytical											
		(Use ppb units)									
Method		Chloroform	Carbon tetrachloride	1,2-Dichloroethane						Volume Purged (gallons)	
Det. Level		8260B	8260B	8260B							
Well I.D.		0.5	0.5	0.5							
Date											
GW-4	5/29/09	2.6	78.6	ND(1)						NA	
	8/28/09	4.1	154	ND(1)						NA	
	11/27/09	2.9	150	ND(2)						NA	
	2/25/10	3.1	228	ND(2)						NA	
	5/27/10	2.5	191	ND(2)						NA	
	8/27/10	1.8	70.1	ND(1)						NA	
	11/19/10	1.7	77.5	ND(1)						NA	
	3/1/11	2.6	184	ND(1)						NA	
	5/25/11	Unable to access due to rain water									
	10/27/11	2.5	172	ND(2)						NA	
	1/26/12	3.3	259	ND(1)						NA	
	4/26/12	3.2	199	ND(1)						NA	
	7/31/12	4.2	183	ND(1)						NA	
	10/30/12	4.1	262	ND(5)						NA	
	2/1/13	5.5	45.6	ND(1)						NA	
	4/26/13	3.9	246	ND(1)						NA	
	8/1/13	6.7	236	ND(5)						NA	
	10/29/13	3.9	243	ND(1)						NA	
	1/31/14	ND(5)	337	ND(5)						NA	
	4/30/14	ND(5)	274	ND(5)						NA	
	8/1/14	ND(5)	223	ND(5)						NA	
	10/29/14	3.8	259	ND(1)						NA	
	1/23/15	3.4	276	ND(2)						NA	
	4/30/15	3.2	191	ND(2)						NA	
	7/28/15	2.2	99.7	ND(1)						NA	
	10/29/15	4.4	193	ND(1)						NA	
	1/29/16	3	160	ND(1)						NA	
	4/29/16	ND(5)	264	ND(5)						NA	
	7/28/16	4.8	288	ND(1)						1	
	*10/28/2016	ND(5)	268	ND(5)						1	
	1/30/17	3.7	242	ND(1)						1	
	4/27/17	2.9	199	ND(2.5)						1	
	8/1/17	3.5	218	ND(2.5)						1	

*Sample not preserved to a pH<2.

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 14 - Groundwater Trends

Indicate below any patterns/trends in groundwater fluctuations and discuss hydrological features that may contribute to such fluctuations (i.e., irrigation ditches, ponds, wells, etc.)

Groundwater elevations increased an average of 0.62 feet across the site between April 2017 and August 2017.

Section 15 - SVE Unit Field and Laboratory Analytical Results

SVE Unit: Effluent

Method:	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tet.	1,2-DCA	O2	CO2	TPH (PID)
	EPA TO-15	EPA TO-15	EPA TO-15	Readings (%)	Readings (%)	Readings (ppm)
Reporting Units	ug/m3	ug/m3	ug/m3			
Date						
*5/29/09	2,000	46,000	ND(64)	—	—	—
06/23/09	99	1,100	ND(2.2)	19.7	0	0.2
07/30/09	26	460	ND(2.5)	20.9	0	0
08/28/09	ND(14)	40	ND(11)	19.1	0	0.2
09/23/09	--	--	--	20.9	0	0.4
10/28/09	--	--	--	20.9	0	4.1
11/27/09	8.8	182	ND(3.2)	20.9	0	0.4
12/23/09	--	--	--	20.9	0	0.8
01/28/10	--	--	--	20.9	0	0
02/25/10	12	115	ND(0.81)	20	0	2.2
03/23/10	--	--	--	20.9	0	0
04/29/10	--	--	--	20.9	0	0
05/27/10	6.8	143	ND(3.2)	20.6	0	0
06/22/10	--	--	--	20.3	0	0
07/28/10	--	--	--	20.7	0	0
08/27/10	2.9	34	ND(3.2)	20.9	0	0
09/28/10	--	--	--	20.9	0	0
10/28/10	--	--	--	20.6	0	0
11/19/10	97.2	13000	ND(3.2)	20.9	0	0
12/27/10	--	--	--	21.5	0	0
02/02/11	--	--	--	--	--	--
03/01/11	ND(3.9)	71.7	ND(3.2)	20.9	0	0.1
03/29/11	--	--	--	20.9	0	0
04/27/11	--	--	--	20.9	0	0
05/25/11	ND(3.9)	49	ND(3.2)	20.9	0	0
08/30/11	--	--	--	20.9	0	0
09/26/11	--	--	--	20.4	0	1.2
10/27/11	ND(3.9)	33	ND(3.2)	20.9	0	0.2
11/28/11	--	--	--	20.9	0	0
12/29/11	--	--	--	20.9	0	0.2
01/26/12	ND(3.9)	21	ND(3.2)	20.9	0	0.2
02/21/12	--	--	--	20.9	0	0.1
03/29/12	--	--	--	20.7	0	0
04/26/12	ND(3.9)	25	ND(3.2)	20.9	0	0.3
05/31/12	--	--	--	20.9	0	0
06/28/12	--	--	--	20.9	0	0
07/31/12	ND(3.9)	52	ND(3.2)	20.9	0	0
08/31/12	--	--	--	20.9	0	0.2
09/27/12	--	--	--	20.9	0	0
10/30/12	ND(3.9)	27	ND(3.2)	20.9	0	0
12/01/12	--	--	--	20.9	0	0
12/27/12	--	--	--	20.9	0	0
Continued						

*5/29/09 SVE/AS System Start-up

Facility Name:

Former Agra CCC/USDA

Quarterly Monitoring Report

Project #:

1491

Section 15 - SVE Unit Field and Laboratory Analytical Results

SVE Unit: Effluent

Method:	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tet.	1,2-DCA	O2	CO2	TPH (PID)
	EPA TO-15	EPA TO-15	EPA TO-15	Readings	Readings	Readings
Reporting Units	ug/m3	ug/m3	ug/m3	(%)	(%)	(ppm)
Date						
02/01/13	ND(3.9)	9.4	ND(3.2)	20.9	0	0
02/28/13	--	--	--	20.9	0	0
03/26/13	--	--	--	20.9	0	0
04/26/13	ND(3.9)	20	ND(3.2)	19.8	0	0
05/30/13	--	--	--	20.9	0	0
06/27/13	--	--	--	20.5	0	0
08/01/13	ND(3.9)	48	ND(3.2)	20.9	0	0
08/31/13	--	--	--	20.9	0	0
09/27/13	--	--	--	20.9	0	0
10/29/13	ND(3.9)	38	ND(3.2)	20.5	0	0
12/02/13	--	--	--	20.9	0	0
12/28/13	--	--	--	20.9	0	0.2
01/31/14	ND(3.9)	9.4	ND(3.2)	20.9	0	0
02/26/14	--	--	--	20.9	0	0
03/27/14	--	--	--	20.6	0	0
04/30/14	ND(3.9)	15	ND(3.2)	20.9	0	0
05/27/14	--	--	--	20.9	0	0
06/26/14	--	--	--	20.9	0	0
08/01/14	ND(3.9)	63.5	ND(3.2)	20.9	0	0
08/28/14	--	--	--	20.9	0	0
09/29/14	--	--	--	20.9	0	0
10/29/14	ND(3.9)	41	ND(3.2)	20.9	0	0
11/26/14	--	--	--	20.9	0	0
12/31/14	--	--	--	20.9	0	0
01/23/15	ND(3.9)	11	ND(3.2)	20.9	0	0
02/27/15	--	--	--	20.9	0	0
04/01/15	--	--	--	20.9	0	0
04/30/15	ND(3.9)	50	ND(3.2)	20.9	0	0
05/30/15	--	--	--	20.9	0	0
06/29/15	--	--	--	20.9	0	0
07/28/15	ND(3.9)	76.7	ND(3.2)	20.9	0	0
08/27/15	--	--	--	20.9	0	0
09/29/15	--	--	--	20.9	0	0
10/29/15	ND(3.9)	38	ND(3.2)	20.9	0	0
12/01/15	--	--	--	20.9	0	0
01/02/16	--	--	--	20.9	0	0
01/29/16	ND(3.9)	62.4	ND(3.2)	20.9	0	0
02/18/16	System deactivated for rebound					
09/29/16	--	--	--	20.9	0	0
10/28/16	ND(0.98)	25	ND(0.81)	20.9	0	0
11/29/16	--	--	--	20.9	0	0
12/29/16	--	--	--	20.9	0	0
01/30/17	ND(3.9)	64.2	ND(3.2)	20.9	0	0
02/23/17	--	--	--	20.9	0	0
04/03/17	--	--	--	20.9	0	0
04/27/17	ND(2.0)	34	ND(1.6)	20.9	0	0
05/30/17	--	--	--	20.9	0	0
06/28/17	--	--	--	20.9	0	0
08/01/17	ND(3.9)	44	ND(3.2)	20.9	0	0

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 17 - SVE Well Field and Laboratory Analytical Results

(Report in ug/m3)

SVE Well: SVE-1

Date	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon	1,2-DCA	O2	CO2	TPH (PID)
		Tetrachloride		Readings	Readings	Readings
Method:	EPA TO-15	EPA TO-15	EPA TO-15	(%)	(%)	(ppm)
05/29/09	710	5,900	ND(31)	--	--	--
06/23/09	11	150	ND(2.6)	19.7	0	0.2
07/30/09	5.1	21	ND(2.4)	20.9	0	0.3
08/28/09	5	20	ND(3.2)	19	0	0.1
09/23/09	--	--	--	20.9	0	0.6
10/28/09	--	--	--	20.9	0	28.1
11/27/09	ND(3.9)	16	ND(3.2)	20.9	0	0.6
12/23/09	--	--	--	20.9	0	3.8
01/28/10	--	--	--	20.9	0	0
02/25/10	2	62	ND(0.81)	20	0	3.9
03/23/10	--	--	--	20.9	0	2.1
04/29/10	--	--	--	20.9	0	0
05/27/10	ND(3.9)	23	ND(3.2)	20.6	0	0
06/22/10	--	--	--	20.3	0	0
07/28/10	--	--	--	20.6	0	0
08/27/10	ND(3.9)	7.5	ND(3.2)	20.9	0	0.4
09/28/10	--	--	--	20.9	0	0.2
10/28/10	--	--	--	20.6	0	0.2
11/19/10	ND(3.9)	138	ND(3.2)	20.6	0	0
12/27/10	--	--	--	21.3	0	0.2
02/02/11	--	--	--	20.9	0	0.2
03/01/11	ND(3.9)	42	ND(3.2)	20.9	0	0.2
03/29/11	--	--	--	20.9	0	0.2
04/27/11	--	--	--	20.9	0	0
05/25/11	ND(3.9)	95	ND(3.2)	20.9	0	0
08/30/11	--	--	--	20.9	0	0.1
09/26/11	--	--	--	20.3	0	1.1
10/27/11	ND(3.9)	5.6	ND(3.2)	20.9	0	0.1
11/28/11	--	--	--	20.9	0	0.1
12/29/11	--	--	--	20.9	0	0.4
01/26/12	ND(3.9)	9.4	ND(3.2)	20.9	0	0.1
02/21/12	--	--	--	20.6	0	0.6
03/29/12	--	--	--	20.9	0	0
04/26/12	ND(3.9)	15	ND(3.2)	20.9	0	0.5
05/31/12	--	--	--	20.9	0	0.1
06/28/12	--	--	--	20.9	0	0.1
07/31/12	Sampling Error			20.9	0	0
08/31/12	--	--	--	20.9	0	0.5
09/27/12	--	--	--	20.9	0	0
10/30/12	ND(3.9)	15	ND(3.2)	20.9	0	0
12/01/12	--	--	--	20.9	0	0.5
12/28/12	--	--	--	20.9	0	0
02/01/13	ND(3.9)	23	ND(3.2)	20.9	0	0.2
02/28/13	--	--	--	20.9	0	0
03/26/13	--	--	--	20.9	0	0.1
04/26/13	ND(3.9)	11	ND(3.2)	19.8	0	0
05/30/13	--	--	--	20.9	0	0
06/27/13	--	--	--	20.5	0	0
08/01/13	ND(3.9)	13	ND(3.2)	20.9	0	0
08/30/13	--	--	--	20.9	0	0
09/27/13	--	--	--	20.9	0	0
10/29/13	ND(0.98)	1.1	ND(0.81)	20.9	0	0
12/02/13	--	--	--	20.9	0	0
12/28/13	--	--	--	20.9	0	0.4
01/31/14	ND(3.9)	8.2	ND(3.2)	20.9	0	0
02/26/14	--	--	--	20.9	0	0
03/27/14	--	--	--	20.9	0	0
04/30/14	ND(3.9)	18	ND(3.2)	20.9	0	0
05/27/14	--	--	--	20.9	0	0
06/26/14	--	--	--	20.9	0	0
08/01/14	ND(3.9)	13	ND(3.2)	20.9	0	0
08/28/14	--	--	--	20.9	0	0
09/29/14	--	--	--	20.9	0	0
10/29/14	ND(3.9)	10	ND(3.2)	20.9	0	0
11/26/14	--	--	--	20.9	0	0
12/31/14	--	--	--	20.9	0	0
01/23/15	ND(3.9)	11	8.5	20.9	0	0
02/27/15	--	--	--	20.9	0	0
04/01/15	--	--	--	20.9	0	0
04/30/15	ND(3.9)	7.5	ND(3.2)	20.9	0	0
05/30/15	--	--	--	20.9	0	0
	Continued					

Section 17 - SVE Well Field and Laboratory Analytical Results
(Report in ug/m3)

SVE Well: SVE-1

	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tetrachloride	1,2-DCA	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
Method:	EPA TO-15	EPA TO-15	EPA TO-15			
Date						
06/29/15	--	--	--	20.9	0	0
07/28/15	ND(3.9)	17	ND(3.2)	20.9	0	0
08/27/15	--	--	--	20.9	0	0
09/29/15	--	--	--	20.9	0	0
10/29/15	ND(3.9)	8.8	ND(3.2)	20.9	0	0
12/01/15	--	--	--	20.9	0	0
01/02/16	--	--	--	20.9	0	0
01/29/16	ND(3.9)	ND(5)	ND(3.2)	20.9	0	0
02/18/16	System deactivated for rebound					
09/29/16	--	--	--	20.9	0	0
10/28/16	ND(0.98)	1.1	ND(0.81)	20.9	0	0
11/29/16	--	--	--	20.9	0	0
12/29/16	--	--	--	20.9	0	0
01/30/17	ND(3.9)	6.2	ND(3.2)	20.9	0	0
02/23/17	--	--	--	20.9	0	0
04/03/17	--	--	--	20.9	0	0
04/27/17	ND(2.0)	8.2	ND(1.6)	20.9	0	0
05/30/17	--	--	--	20.9	0	0
06/28/17	--	--	--	20.9	0	0
08/01/17	ND(3.9)	ND(5)	ND(3.2)	20.9	0	0

Quarterly Monitoring Report										
Facility Name: <u>Former Agra CCC/USDA</u>				Project #: <u>1491</u>						
Section 17 - SVE Well Field and Laboratory Analytical Results (Report in ug/m3)										
SVE Well: <u>SVE-2</u>		LABORATORY ANALYSIS				FIELD ANALYSIS				
		Chloroform	Carbon	1,2-DCA				O2	CO2	TPH (PID)
			Tetrachloride					Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15				(%)	(%)	(ppm)
Date										
05/29/09		480	8,800	ND(48)				--	--	--
06/23/09		17	49	ND(2.5)				19.7	0	0.3
07/30/09		5.2	26	ND(2.4)				20.9	0	0.6
08/28/09		1	5	ND(0.80)				19.2	0	0.3
09/23/09		--	--	--				20.9	0	0.7
10/28/09		--	--	--				20.9	0	26.6
11/27/09		2.1	23	ND(3.2)				20.9	0	1.2
12/23/09		--	--	--				20.9	0	5.3
01/28/10		--	--	--				20.9	0	0
02/25/10		1.6	12	ND(0.81)				19.9	0	2.6
03/23/10		--	--	--				20.6	0	2.6
04/29/10		--	--	--				20.9	0	0
05/27/10		ND(3.9)	6.3	ND(3.2)				20.7	0	0
06/22/10		--	--	--				20.4	0	0
07/28/10		--	--	--				20.7	0	0
08/27/10		ND(3.9)	3.8	ND(3.2)				20.9	0	0.4
09/28/10		--	--	--				20.9	0	0.2
10/28/10		--	--	--				20.6	0	0.2
11/19/10		55.7	12000	ND(3.2)				20.6	0	0
12/27/10		--	--	--				21.5	0	0
02/02/10		--	--	--				20.8	0	0
03/01/11		ND(3.9)	5.4	ND(3.2)				20.9	0	0.2
03/29/11		--	--	--				20.9	0	0.2
04/27/11		--	--	--				20.9	0	0
05/25/11		ND(3.9)	23	ND(3.2)				20.9	0	0
08/30/11		--	--	--				20.9	0	0
09/28/11		--	--	--				20.3	0	1.2
10/27/11		ND(3.9)	3.5	ND(3.2)				20.9	0	0.4
11/28/11		--	--	--				20.9	0	0
12/29/11		--	--	--				20.9	0	0.8
01/26/12		ND(3.9)	6.9	ND(3.2)				20.8	0	0
02/21/12		--	--	--				20.6	0	0.6
03/29/12		--	--	--				20.9	0	0.1
04/26/12		ND(3.9)	13	ND(3.2)				20.9	0	0.9
05/31/12		--	--	--				20.9	0	0
06/28/12		--	--	--				20.9	0	0
07/31/12		ND(3.9)	7.5	ND(3.2)				20.9	0	0
08/31/12		--	--	--				20.9	0	0.7
09/27/12		--	--	--				20.9	0	0
10/30/12		2.3	3.7	ND(3.2)				20.9	0	0
12/01/12		--	--	--				20.9	0	0.5
12/28/12		--	--	--				20.9	0	0
02/01/13		ND(3.9)	3.7	ND(3.2)				20.9	0	0.2
02/28/13		--	--	--				20.9	0	0
03/26/13		--	--	--				20.9	0	0
04/26/13		ND(3.9)	5.9	ND(3.2)				19.6	0	0
05/30/13		--	--	--				20.9	0	0
06/27/13		--	--	--				20.3	0	0
08/01/13		ND(3.9)	4.3	ND(3.2)				20.9	0	0
08/31/13		--	--	--				20.9	0	0
09/27/13		--	--	--				20.9	0	0
10/29/13		ND(0.98)	0.82	ND(0.81)				20.9	0	0
12/02/13		--	--	--				20.8	0	0
12/28/13		--	--	--				20.9	0	0.3
01/31/14		ND(3.9)	3.3	ND(3.2)				20.9	0	0
02/26/14		--	--	--				20.9	0	0
03/27/14		--	--	--				20.6	0	0
04/30/14		ND(3.9)	6.3	ND(3.2)				20.9	0	0
05/27/14		--	--	--				20.9	0	0
06/26/14		--	--	--				20.9	0	0
08/01/14		ND(3.9)	5.3	ND(3.2)				20.9	0	0
08/28/14		--	--	--				20.9	0	0
09/29/14		--	--	--				20.9	0	0
10/29/14		ND(3.9)	ND(5)	ND(3.2)				20.9	0	0
11/26/14		--	--	--				20.9	0	0
12/31/14		--	--	--				20.9	0	0
01/23/15		ND(3.9)	ND(5)	ND(3.2)				20.9	0	0
02/27/15		--	--	--				20.9	0	0
04/01/15		--	--	--				20.9	0	0
04/30/15		ND(3.9)	2.9	ND(3.2)				20.9	0	0
05/30/15		--	--	--				20.9	0	0
		Continued								

Quarterly Monitoring Report									
Facility Name: <u>Former Agra CCC/USDA</u>				Project #: <u>1491</u>					
Section 17 - SVE Well Field and Laboratory Analytical Results (Report in ug/m3)									
SVE Well: <u>SVE-2</u>		LABORATORY ANALYSIS					FIELD ANALYSIS		
		Chloroform	Carbon	1,2-DCA			O2	CO2	TPH (PID)
			Tetrachloride				Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15			(%)	(%)	(ppm)
Date									
06/29/15		--	--	--			20.9	0	0
07/28/15		ND(3.9)	4.5	ND(3.2)			20.9	0	0
08/27/15		--	--	--			20.9	0	0
09/29/15		--	--	--			20.9	0	0
10/29/15		ND(3.9)	ND(5)	ND(3.2)			20.9	0	0
12/01/15		--	--	--			20.9	0	0
01/02/16		--	--	--			20.9	0	0
01/29/16		ND(3.9)	42	ND(3.2)			20.9	0	0
02/18/16		System deactivated for rebound							
09/29/16		--	--	--			20.9	0	0
10/28/16		ND(0.98)	2.6	ND(0.81)			20.9	0	0
11/29/16		--	--	--			20.9	0	0
12/29/16		--	--	--			20.9	0	0
01/30/17		ND(3.9)	3.2	ND(3.2)			20.9	0	0
02/23/17		--	--	--			20.9	0	0
04/03/17		--	--	--			20.9	0	0
04/27/17		ND(2.0)	3.6	ND(1.6)			20.9	0	0
05/30/17		--	--	--			20.9	0	0
06/28/17		--	--	--			20.9	0	0
08/01/17		ND(3.9)	ND(5)	ND(3.2)			20.8	0	0

Quarterly Monitoring Report										
Facility Name: <u>Former Agra CCC/USDA</u>				Project #: <u>1491</u>						
Section 17 - SVE Well Field and Laboratory Analytical Results										
SVE Well: <u>SVE-3</u> (Report in ug/m3)										
		LABORATORY ANALYSIS			FIELD ANALYSIS					
		Chloroform	Carbon Tetrachloride	1,2-DCA				O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
Method:		EPA TO-15	EPA TO-15	EPA TO-15						
Date										
05/29/09		2,600	60,000	ND(310)				--	--	--
06/23/09		190	2,000	ND(2.5)				19.6	0	0.2
07/30/09		54	950	ND(2.4)				20.9	0	0.6
08/28/09		37	502	ND(3.2)				19.1	0	0.4
09/23/09		--	--	--				20.9	0	0.7
10/28/09		--	--	--				20.9	0	27.4
11/27/09		21	528	ND(3.2)				20.9	0	0.7
12/23/09		--	--	--				20.9	0	4.2
01/28/10		--	--	--				20.9	0	0
02/25/10		28	238	ND(1.6)				20	0	5
03/23/10		--	--	--				20.9	0	0
04/29/10		--	--	--				20.9	0	0
05/27/10		15	345	ND(3.2)				20.6	0	0
06/22/10		--	--	--				20.4	0	0.1
07/28/10		--	--	--				20.6	0	0
08/27/10		9.3	113	ND(3.2)				20.9	0	0.3
09/28/10		--	--	--				20.9	0	0.3
10/28/10		--	--	--				20.6	0	0.2
11/19/10		47	7110	ND(3.2)				20.9	0	0
12/27/10		--	--	--				21.5	0	0
02/02/11		--	--	--				20.9	0	0
03/01/11		ND(3.9)	98.2	ND(3.2)				20.9	0	0
03/29/11		--	--	--				20.9	0	0
04/27/11		--	--	--				20.9	0	0
05/25/11		ND(3.9)	5	ND(3.2)				20.9	0	0
08/30/11		--	--	--				20.9	0	0
09/23/11		--	--	--				20.4	0	1.3
10/27/11		3	165	ND(3.2)				20.9	0	0.2
11/28/11		--	--	--				20.9	0	0
12/29/11		--	--	--				20.9	0	0.1
01/26/12		ND(3.9)	46	ND(3.2)				20.9	0	0.2
02/21/12		--	--	--				20.6	0	0.8
03/29/12		--	--	--				20.5	0	0.2
04/26/12		ND(3.9)	45	ND(3.2)				20.9	0	0.3
05/31/12		--	--	--				20.5	0	0
06/28/12		--	--	--				20.9	0	0.2
07/31/12		ND(3.9)	81.8	ND(3.2)				20.9	0	0.1
08/31/12		--	--	--				20.9	0	0.7
09/27/12		--	--	--				20.9	0	0.2
10/30/12		ND(3.9)	47	ND(3.2)				20.9	0	0
12/01/12		--	--	--				20.9	0	0.8
12/28/12		--	--	--				20.9	0	0.1
02/01/13		ND(3.9)	19	ND(3.2)				20.9	0	0.3
02/28/13		--	--	--				20.5	0	0.1
03/26/13		--	--	--				20.9	0	0.2
04/26/13		ND(3.9)	39	ND(3.2)				19.9	0	0
05/30/13		--	--	--				20.9	0	0.1
06/27/13		--	--	--				20.3	0	0
08/01/13		ND(3.9)	85.5	ND(3.2)				20.9	0	0
08/30/13		--	--	--				20.9	0	0
09/27/13		--	--	--				20.9	0	0
10/29/13		ND(3.9)	90.6	ND(3.2)				20.5	0	0
12/02/13		--	--	--				20.8	0	0
12/28/13		--	--	--				20.9	0	0.4
01/31/14		ND(3.9)	47	ND(3.2)				20.9	0	0
02/26/14		--	--	--				20.9	0	0
03/27/14		--	--	--				20.9	0	0
04/30/14		ND(3.9)	60	ND(3.2)				20.9	0	0
05/27/14		--	--	--				20.9	0	0
06/26/14		--	--	--				20.9	0	0
08/01/14		ND(3.9)	150	ND(3.2)				20.9	0	0
08/28/14		--	--	--				20.9	0	0
09/29/14		--	--	--				20.9	0	0
10/29/14		ND(3.9)	83	ND(3.2)				20.9	0	0
11/26/14		--	--	--				20.9	0	0
12/31/14		--	--	--				20.9	0	0
01/23/15		ND(3.9)	89.3	ND(3.2)				20.9	0	0
02/27/15		--	--	--				20.9	0	0
04/01/15		--	--	--				20.9	0	0
04/30/15		ND(3.9)	57	ND(3.2)				20.9	0	0
05/30/15		--	--	--				20.9	0	0
		Continued								

Quarterly Monitoring Report		
Facility Name: <u>Former Agra CCC/USDA</u>		Project #: <u>1491</u>

Section 17 - SVE Well Field and Laboratory Analytical Results
(Report in ug/m3)

LABORATORY ANALYSIS				FIELD ANALYSIS		
	Chloroform	Carbon Tetrachloride	1,2-DCA			
Method:	EPA TO-15	EPA TO-15	EPA TO-15			
Date				O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
06/29/15	--	--	--	20.9	0	0
07/28/15	2.1	184	ND(3.2)	20.9	0	0
08/27/15	--	--	--	20.9	0	0
09/29/15	--	--	--	20.9	0	0
10/29/15	ND(3.9)	166	ND(3.2)	20.9	0	0
12/01/15	--	--	--	20.9	0	0.1
01/02/16	--	--	--	20.9	0	0
01/29/16	2.1	240	ND(3.2)	20.9	0	0
02/18/16	System deactivated for rebound					
09/29/16	--	--	--	20.9	0	0
10/28/16	1.4	145	ND(0.81)	20.9	0	0
11/29/16	--	--	--	20.9	0	0
12/29/16	--	--	--	20.9	0	0
01/30/17	ND(3.9)	144	ND(3.2)	20.9	0	0
02/23/17	--	--	--	20.9	0	0
04/03/17	--	--	--	20.9	0	0
04/27/17	1.6	120	ND(1.6)	20.9	0	0
05/30/17	--	--	--	20.9	0	0
06/28/17	--	--	--	20.9	0	0
08/01/17	1.9	144	ND(3.2)	20.8	0	0

Quarterly Monitoring Report										
Facility Name: <u>Former Agra CCC/USDA</u>				Project #: <u>1491</u>						
Section 17 - SVE Well Field and Laboratory Analytical Results										
SVE Well: <u>SVE-4</u> (Report in ug/m3)										
		LABORATORY ANALYSIS			FIELD ANALYSIS					
		Chloroform	Carbon Tetrachloride	1,2-DCA				O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
Method:		EPA TO-15	EPA TO-15	EPA TO-15						
Date										
05/29/09		1,800	29,000	ND(160)				--	--	--
06/23/09		51	400	ND(2.5)				19.5	0	0.4
07/30/09		12	130	ND(2.3)				20.9	0	0.7
08/28/09		8	84	ND(3.2)				19.4	0	0.2
09/23/09		--	--	--				20.9	0	0.8
10/28/09		--	--	--				20.6	0	31.3
11/27/09		7.3	110	ND(3.2)				20.9	0	0.6
12/23/09		--	--	--				20.9	0	3.6
01/28/10		--	--	--				20.9	0	0
02/25/10		6.8	59	ND(0.81)				20	0	0.7
03/23/10		--	--	--				20.9	0	0
04/29/10		--	--	--				20.9	0	0
05/27/10		3.6	35	ND(3.2)				20.4	0	0
06/22/10		--	--	--				20.1	0	0.2
07/28/10		--	--	--				20.5	0	0
08/27/10		3	17	ND(3.2)				20.9	0	0.4
09/28/10		--	--	--				20.9	0	0.4
10/28/10		--	--	--				20.9	0	0.9
11/19/10		90.3	34300	ND(3.2)				20.9	0	0
12/27/10		--	--	--				21.5	0	0.2
02/02/11		--	--	--				20.9	0	0
03/01/11		ND(3.9)	25	ND(3.2)				20.9	0	0
03/29/11		--	--	--				20.9	0	0.2
04/27/11		--	--	--				20.9	0	0
05/25/11		ND(3.9)	23	ND(3.2)				20.9	0	0
08/30/11		--	--	--				20.9	0	0
09/23/11		--	--	--				20.2	0	1.8
10/27/11		ND(3.9)	17	ND(3.2)				20.9	0	0.1
11/28/11		--	--	--				20.9	0	0.1
12/29/11		--	--	--				20.9	0	0.1
01/26/12		ND(3.9)	8.8	ND(3.2)				20.8	0	0.1
02/21/12		--	--	--				20.9	0	0.8
03/29/12		--	--	--				20.8	0	0
04/26/12		ND(3.9)	8.2	ND(3.2)				20.9	0	0.3
05/31/12		--	--	--				--	--	--
06/28/12		--	--	--				--	--	--
07/31/12		ND(3.9)	18	ND(3.2)				20.9	0	0
08/31/12		--	--	--				--	--	--
09/27/12		--	--	--				--	--	--
10/30/12		ND(3.9)	8.2	ND(3.2)				20.9	0	0
12/01/12		--	--	--				--	--	--
12/28/12		--	--	--				--	--	--
02/01/13		ND(3.9)	8.2	ND(3.2)				20.9	0	0.3
02/28/13		--	--	--				Off Cycling		
03/26/13		--	--	--				Off Cycling		
04/26/13		ND(3.9)	4.4	ND(3.2)				20.2	0	0.1
05/30/13		--	--	--				--	--	--
06/27/13		--	--	--				--	--	--
08/01/13		ND(3.9)	18	ND(3.2)				20.5	0	0
08/30/13		--	--	--				--	--	--
09/27/13		--	--	--				20.9	0	0
10/29/13		ND(3.9)	14	ND(3.2)				20.4	0	0
12/02/13		--	--	--				--	--	--
12/28/13		--	--	--				--	--	--
01/31/14		ND(3.9)	13	ND(3.2)				20.9	0	0
02/26/14		--	--	--				--	--	--
03/27/14		--	--	--				--	--	--
04/30/14		ND(3.9)	20	ND(3.2)				20.9	0	0
08/01/14		ND(3.9)	28	ND(3.2)				20.9	0	0
10/29/14		ND(3.9)	13	ND(3.2)				20.9	0	0
01/23/15		ND(3.9)	12	ND(3.2)				20.9	0	0
04/30/15		ND(3.9)	20	ND(3.2)				20.9	0	0
07/28/15		ND(3.9)	30	ND(3.2)				20.9	0	0
10/29/15		ND(3.9)	ND(5)	ND(3.2)				20.9	0	0
01/29/16		ND(3.9)	20	ND(3.2)				20.9	0	0
02/18/16	System deactivated for rebound									
10/28/16		ND(0.98)	19	ND(0.81)				20.9	0	0
01/30/17		ND(3.9)	16	ND(3.2)				20.9	0	0
04/27/17		ND(2.0)	14	ND(1.6)				20.9	0	0
08/01/17		ND(3.9)	15	ND(3.2)				20.9	0	0

Quarterly Monitoring Report									
Facility Name: Former Agra CCC/USDA		Project #: 1491							
Section 17 - SVE Well Field and Laboratory Analytical Results									
SVE Well: SVE-5		(Report in ug/m3)							

Quarterly Monitoring Report

Facility Name: **Former Agra CCC/USDA**

Project #: **1491**

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: **AS-1**

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	5.5	4.95	5
06/23/09	5.89	5.29	3.5
07/29/09	6.11	5.25	6
08/28/09	5.86	4.13	6
09/23/09	5.91	5.04	6.9
10/28/09	5.47	4.03	9
11/27/09	5.96	5.76	3.6
12/23/09	4.97	4.29	4
01/28/10	4.77	4.56	5
02/25/10	4.95	4.72	4.9
03/23/10	4.84	4.46	4.8
04/29/10	5.47	5.31	3
05/27/10	5.69	5.14	4.2
06/22/10	6.18	5.54	5
07/28/10	1.06	0.57	4.8
08/27/10	Blower faulty. System deactivated.		
10/28/10	0.92	0.32	5.9
11/19/10	Possible broken line. Well Line deactivated.		
12/27/10	OFF		
02/02/11	5.4	4.89	3
03/01/11	5.34	NA	3
03/29/11	4.61	NA	4
04/27/11	5.47	5.01	3.3
05/25/11	5.65	NA	3.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	5.75	5.49	4
11/28/11	5.68	5.11	4
12/29/11	5.32	5.31	4
01/26/12	5.54	5.3	3
02/21/12	5.68	5.19	2.8
03/29/12	5.86	5.41	3
04/28/12	5.62	5.18	2.5
05/31/12	5.44	5.18	2
06/28/12	5.34	5.17	4
07/31/12	5.28	5.04	4
08/31/12	5.44	4.85	6
09/27/12	5.33	4.9	5
10/30/12	5.32	4.98	4
12/01/12	Needs Vanes & Filters		
02/01/13	5.14	4.86	3
02/28/13	4.73	4.36	5
03/26/13	4.59	4.4	4
04/26/13	4.91	4.79	3
05/30/13	4.91	4.55	3.5
06/27/13	4.91	4.51	4
08/01/13	4.69	4.4	3.5
08/30/13	4.67	4.24	4
09/27/13	4.54	4.26	3.8
10/29/13	4.74	4.47	3.5
12/02/13	4.4	3.96	6
12/28/13	4.73	4.55	3.5
01/31/14	4.27	4.06	3.5
02/26/14	4.16	3.82	5
03/27/14	4.38	3.94	5
04/30/14	4.31	3.9	5.3
05/27/14	4.63	3.96	5.2
06/26/14	4.52	3.93	4.9
08/01/14	4.27	3.9	5
08/28/14	4.42	3.89	5.5
09/29/14	4.36	3.8	6
10/29/14	4.37	3.69	6.7
11/26/14	4.42	3.63	7
12/31/14	4.26	3.34	6.8
01/23/15	4.17	3.57	6.6
02/27/15	4.34	3.49	7.9
04/01/15	4.27	3.7	6.5
04/30/15	4.2	3.62	6.2
05/30/15	4.33	3.63	6.3
06/29/15	3.92	3.36	6.1
07/28/15	4.19	3.39	6
	Continued		

Possible broken line, pad hit by tractor & moved. Took readings & turned off

Wellhead Pad Under construction
Wellhead Pad Under construction

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-1

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	4.32	3.42	7.7
09/29/15	4	3.27	7
10/29/15	3.95	3.29	6.7
12/01/15	3.78	3.35	5.7
01/02/16	3.62	3.54	4
01/29/16	3.56	3.4	4
02/18/16	System deactivated for rebound		
09/29/16	5.16	5.1	4
10/28/16	4.81	4.7	4
11/29/16	4.83	4.44	4
12/29/16	4.74	4.37	4.2
01/30/17	4.88	4.5	4
02/23/17	3.67	3.39	4
04/03/17	3.74	3.51	4.5
04/27/17	3.77	3.33	5.4
05/30/17	3.77	3.44	5
06/28/17	3.82	3.42	4.9
08/01/17	3.93	3.55	4.5

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: **AS-2**

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.5	5
06/23/09	8.84	8.31	4
07/29/09	8.27	8.21	1.5
08/28/09	8.33	8.08	2
09/23/09	8.2	8.1	1.1
10/28/09	8.2	7.96	0.5
11/27/09	8.74	8.61	3.5
12/23/09	8.48	8.06	4
01/28/10	8.33	8.06	3.7
02/25/10	8.41	8.22	3
03/23/10	8.47	8.37	2
04/29/10	8.61	8.35	3
05/27/10	8.88	8.48	3.7
06/22/10	8.74	8.53	2.4
07/28/10	8.9	8.45	2.8
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.42	8.27	3.7
11/19/10	8.92	8.61	4
12/27/10	9.13	8.65	5
02/02/11	8.76	8.41	3.7
03/01/11	2	0.54	3
03/29/11	0.44	0.11	4
04/27/11	Deactivated due to no PSI at Manifold through 10-6-11		
11/29/11	9.03	9	4
12/29/11	9.03	9	4
01/26/12	8.68	8.67	3
02/21/12	8.97	8.63	2.8
03/29/12	9.16	8.66	3
04/26/12	8.95	8.65	3
05/31/12	8.59	8.36	2
06/28/12	8.72	8.14	5
07/31/12	8.36	8.18	5
08/31/12	8.81	8.28	6
09/27/12	8.49	8.13	5
10/30/12	8.25	8.02	4
12/01/12	Needs Vanes & Filters		
02/01/13	8.43	8.11	3.7
02/28/13	7.98	7.59	5
03/26/13	7.68	7.3	4
04/26/13	7.96	7.82	3
05/30/13	7.86	7.47	2.5
06/27/13	8.37	7.92	4
08/01/13	7.59	7.32	4
08/31/13	7.76	7.3	4
09/27/13	7.82	7.55	4
10/29/13	7.85	7.59	3.7
12/02/13	7.8	7.38	6
12/28/13	7.87	7.79	3.5
01/31/14	7.68	7.42	3.5
02/26/14	7.67	7.29	5
03/27/14	7.87	7.45	5
04/30/14	7.89	7.38	2
05/27/14	8.05	7.43	5.2
06/26/14	7.98	7.37	5.1
08/01/14	7.93	7.27	5
08/28/14	8.61	7.38	8.5
09/29/14	8.34	7.29	8
10/29/14	8.04	7.17	7.7
11/26/14	7.78	7.09	7
12/31/14	7.37	6.76	5.5
01/23/15	7.26	6.9	5
02/27/15	7.56	6.79	7
04/01/15	7.64	7.07	6.5
04/30/15	7.52	6.98	6.2
05/30/15	7.7	7.01	6
06/29/15	7.49	6.96	5.8
07/28/15	7.46	6.96	6
	Continued		

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-2

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	7.46	6.98	5
09/29/15	7.14	6.79	4.8
10/29/15	7.11	6.73	4.7
12/01/15	7.33	6.9	5
01/02/16	6.46	4.27	4
01/29/16	7.38	6.8	4
02/18/16	System deactivated for rebound		
09/29/16	10+	10+	4
10/29/16	10+	9.72	4
11/29/16	9.98	9.55	4
12/29/16	9.97	9.41	4.2
01/30/17	10+	9.64	4
02/23/17	7.36	7.04	4
04/03/17	7.44	7.04	4.5
04/27/17	7.36	7.03	4.3
05/30/17	7.46	7.15	3.8
06/28/17	7.48	7.28	3.6
08/01/17	7.55	7.37	3.8

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-3

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.21	5
06/23/09	7.75	6.98	4
07/29/09	8.87	8.08	5
08/28/09	8.5	8.13	7
09/23/09	8.3	7.8	5
10/28/09	8.16	7.89	3.2
11/27/09	8.86	8.8	2.2
12/23/09	7.41	7.33	4
01/28/10	7.19	6.66	4.7
02/25/10	7.15	6.78	4.8
03/25/10	6.9	6.6	5
04/29/10	7.4	7.22	3
05/27/10	7.78	7.51	4.9
06/22/10	8.71	8.27	4
07/28/10	8.96	8.27	4
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.35	7.67	5
11/19/10	8.82	8.05	6.8
12/27/10	9.19	8.74	3.5
02/02/11	8.68	8.39	2
03/01/11	8	7.64	3
03/29/11	7.75	7.46	4
04/27/11	8.22	8.09	3
05/25/11	10+	NA	2.8
08/30/11	OFF		
09/26/11	OFF		
10/27/11	8	7.73	5
11/28/11	8.32	8.04	4
12/29/11	10.55	10.21	4
01/26/12	12.46	12.42	3
02/21/12	10+	10+	1.3
03/29/12	11.74	10.74	1.5
04/28/12	11.13	11	3
05/31/12	13.98	13.8	3
06/28/12	15.72	15.07	6
07/31/12	10+	10+	2
08/31/12	7.71	7.65	1
09/27/12	10+	10+	1.5
10/30/12	10+	10+	2
12/01/12	Needs Vanes & Filters		
02/01/13	10+	10+	3.2
02/28/13	10+	10+	4
03/26/13	10+	10+	2
04/26/13	10+	10+	0.5
05/30/13	10+	10+	1.5
06/27/13	10+	10+	0
08/01/13	10+	10+	<0.5
08/31/13	10+	10+	1
09/27/13	10+	10+	0.5
10/29/13	10+	10+	0.5
12/02/13	10+	10+	0
12/28/13	10+	10+	0.5
01/31/14	6.39	5.32	1
02/26/14	10+	10+	7
03/27/14	10+	10+	3
04/30/14	15.77	15.66	2
05/27/14	16.11	15.87	1.5
06/26/14	14.32	14.23	1.7
08/01/14	10+	10+	1.7
08/28/14	10+	10+	2
09/29/14	10+	10+	2
10/29/14	10+	10+	1.7
11/26/14	10+	10+	2
12/31/14	10+	10+	1.8
01/23/15	10+	10+	1.8
02/27/15	10+	10+	2
04/01/15	10+	10+	1.8
04/30/15	10+	10+	2
05/30/15	10+	10+	2
06/29/15	10+	10+	2
07/28/15	10+	10+	2.2
	Continued		

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report			
Facility Name: <u>Former Agra CCC/USDA</u>		Project #: <u>1491</u>	
Section 18 - Air Sparge (A/S) Wells / System Operation			
A/S Well: AS-3			
	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	10+	10+	3
09/29/15	10+	10+	3.3
10/29/15	10+	10+	3.2
12/01/15	12.9	3.22	3
01/02/16	10+	10+	3.2
01/29/16	10+	10+	3.3
02/18/16	System deactivated for rebound		
09/29/16	10+	10+	3.5
10/28/16	10+	10+	3.5
11/29/16	10+	10+	4.2
12/29/16	10+	10+	3.2
01/30/17	10+	10+	3.7
02/23/17	10+	10+	3
04/03/17	10+	10+	1
04/27/17	10+	10+	1.8
05/30/17	10+	10+	2.5
06/28/17	10+	10+	2.5
08/01/17	10+	10+	2.5

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-4

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	9	8.56	5
06/23/09	8.41	8.16	3.7
07/29/09	8.17	8.03	1.5
08/28/09	8.38	8.14	3
09/23/09	8.05	7.95	1.5
10/28/09	8.2	7.97	1
11/27/09	8.65	8.48	3.6
12/23/09	8.29	8.16	4
01/28/10	8.32	7.81	5
02/25/10	8.37	8.01	4.5
03/23/10	8.43	8.11	4.5
04/29/10	8.48	8.25	3
05/27/10	8.34	8.25	1.8
06/22/10	8.44	8.14	3
07/28/10	8.62	7.93	2.2
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.46	8.26	3.6
11/19/10	8.9	8.52	4.6
12/27/10	8.5	8.4	4
02/02/11	8.49	8.36	2
03/01/11	8.68	8.52	3
03/29/11	10+	7.89	1
04/27/11	8.58	8.28	2
05/25/11	8.71	NA	2.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	8.72	8.45	4
11/28/11	8.84	8.55	4
12/29/11	8.61	8.36	4
01/26/12	8.96	8.81	3
02/21/12	10+	8.28	2.8
03/29/12	8.89	8.09	3
04/26/12	8.65	8.19	3
05/31/12	OFF	OFF	OFF
06/28/12	OFF	OFF	OFF
07/30/12	8.25	7.76	5
08/31/12	--	--	--
09/27/12	8.54	7.76	6
10/30/12	8.88	8.1	7.75
12/01/12	Needs Vanes & Filters		
02/01/13	10+	8.16	8.5
02/28/13	Off Cycling		
03/26/13	Off Cycling		
04/26/13	7.91	7.86	2.5
05/30/13	--	--	--
06/27/13	--	--	--
08/01/13	8.75	7.18	7
08/31/13	--	--	--
09/27/13	7.51	7.35	3.5
10/29/13	7.71	7.47	3.7
12/02/13	--	--	--
12/28/13	--	--	--
01/31/14	7.61	--	4.5
04/30/14	8.39	7.23	9
08/01/14	7.95	7.03	Broken
10/29/14	8.15	6.88	10.1
01/23/14	7.63	6.72	8.8
04/30/15	7.91	6.72	9.9
07/28/15	7.51	6.52	8.9
10/29/15	7.81	6.44	11
01/29/16	7.9	6.6	11.5
02/18/16	System deactivated for rebound		
10/28/16	10+	9.36	11
01/30/17	Flowmeter broken to current		

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-5

Parameter:	Manifold	Wellhead	Flow Rate
Units:	Well Pressure	Well Pressure	Flow Rate
	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.9	5
06/23/09	8.93	8.42	3
07/29/09	8.92	8.7	3.2
08/28/09	8.65	8.5	2
09/23/09	8.45	8.39	0
10/28/09	8.28	8.22	0
11/27/09	8.95	8.85	0
12/23/09	10+	8.29	1.5
01/28/10	8.47	8.44	0
02/25/10	8.51	8.5	0
03/23/10	8.59	8.57	0
04/29/10	9.96	9.64	3
05/27/10	8.96	8.8	0
06/22/10	8.84	8.79	0
07/28/10	10+	8.84	0
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.55	8.43	0
11/19/10	10	8.88	0
12/27/10	9.3	8.97	3
02/02/11	10+	9.02	3.3
03/01/11	8.98	8.14	2.5
03/29/11	10+	8.96	4
04/27/11	10+	8.8	3.5
05/25/11	10+	NA	4.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	11.61	11.3	3
11/28/11	10+	10+	0
12/29/11	11.1	11.1	0
01/26/12	12.52	12.5	0.5
02/21/12	10+	10+	0.5
03/29/12	11.77	11.32	0.5
04/28/12	11.63	11.82	1
05/31/12	OFF	OFF	OFF
06/28/12	OFF	OFF	OFF
07/31/12	10+	10+	7
08/31/12	--	--	--
09/27/12	10+	10+	5
10/30/12	10+	10+	2.5
12/01/12	Needs Vanes & Filters		
02/01/13	10+	10+	2
02/28/13	Off Cycling		
03/26/13	Off Cycling		
04/26/13	10+	10+	0.5
05/30/13	--	--	--
06/27/13	--	--	--
08/01/13	10+	10+	*--
08/31/13	--	--	--
09/27/13	10+	10+	*--
10/29/13	10+	10+	0.5
12/02/13	--	--	--
01/31/14	10+	--	--
02/26/14	8.27	7.7	6.25
04/30/14	8.99	7.55	10
08/01/14	8.24	7.31	8
10/29/14	8.51	7.25	9.4
01/23/15	7.85	6.99	8
04/30/15	8.25	7.08	9.3
07/28/15	7.96	6.86	8.2
10/29/15	8.49	6.92	10.5
01/29/16	8.55	7.04	10.5
02/18/16	System deactivated for rebound		
10/28/16	10+	9.94	10.2
01/30/17	10+	10+	10
04/27/17	8.75	6.91	11.5
08/01/17	Broken wellhead		

Unable to collect wellhead pressure reading due to standing water over wellhead

* Flowmeter broken

Quarterly Monitoring Report							
Facility Name: Former Agra CCC/USDA				Project #: 1491			
Section 18 - Air Sparge (A/S) Wells / System Operation							
Complete A/S System (If applicable)							
	System		Bleed-Off	Pre	Post	Operation Time	
Parameter:	Pressure	Flow Rate	Valve	Air Temp.	Air Temp.	Continuous	Cycling
Units:	(psi)	(scfm)	(%) Open	(Deg. F)	(Deg. F)	(Hours)	(Hours)
Date							
05/29/09	8	20	Closed	--	--		
06/23/09	10.8	18.2	Closed	148	--		591.7
07/29/09	11.4	17.2	Closed	129	--		1111.1
08/28/09	11	20	Closed	--	--		1112.1
09/23/09	11.3	14.5	Closed	128	--		1112.1
10/28/09	11.4	13.7	Closed	113	--		1112.2
11/27/09	12	12.9	Closed	119	--		1112.2
12/23/09	14	17.5	Closed	113	--		1112.2
01/28/10	21.7	18.4	Closed	91	--		175.7
02/25/10	12	17.2	Closed	101	--		507.5
03/23/10	11.6	16.3	Closed	116	--		813
04/29/10	12.7	15	Closed	134	--		1261.1
05/27/10	11.4	14.6	Closed	139	--		1938.6
06/22/10	11.4	14.4	Closed	135	--		2556.5
07/28/10	11.1	13.8	Closed	147	--		3421.3
08/27/10	Blower faulty. System deactivated.						3954.2
10/28/10	10.8	18.2	Closed	124	--		4478.4
11/19/10	10.4	15.4	Closed	119	--		5010.7
12/27/10	11	15.5	Closed	110	--		5921.1
02/02/11	10.8	14	Closed	109	--		6808.4
03/01/11	10	16.5	Closed	120	--		7456.5
03/29/11	11.1	17	Closed	111	--		7770.2
04/27/11	11.1	15.8	Closed	122	--		8467.3
05/25/11	11.9	13.3	Closed	124	--		9138.8
08/30/11	OFF						
09/26/11	OFF						
10/27/11	13	16	Closed	126	--		9644.7
11/28/11	13.5	16	Closed	120	--		10407.5
12/29/11	11	16	Closed	120	--		11155.5
01/26/12	14	12.5	Closed	104	--		11824.4
02/21/12	14	10.2	Closed	111	--		12448.6
03/29/12	13	11	Closed	120	--		13336.4
04/26/12	13	12.5	Closed	127	--		14000.7
05/31/12	16	7	Closed	110	--		14642.9
06/28/12	18	15	Closed	150	--		15313.4
07/31/12	16	16	Closed	140	--		16105.7
08/31/12	19.9	13	Closed	139	--		16849.7
09/27/12	20	11.5	Closed	118	--		17498.6
10/30/12	20	10	Closed	110	--		18288.7
12/01/12	Needs Vanes & Filters						
02/01/13	13.5	20.4	Closed	107	--		18671.6
02/28/13	20	14	Closed	106	--		19317.5
03/26/13	21	10	Closed	100	--		19939.9
04/26/13	21	6	Closed	112	--		20687.2
05/30/13	21.5	7.5	Closed	120	--		21499.8
06/27/13	19	8	Closed	130	--		22171.8
08/01/13	19	8	Closed	106	--		23014.5
08/31/13	20	9	Closed	--	--		23706.2
09/27/13	21	7.8	Closed	122	--		24378.7
10/29/13	18.5	11.9	Closed	104	--		25148
12/02/13	15	12	Closed	110	--		25963.7
12/28/13	18.5	7.5	Closed	100	--		26587.8
01/31/14	19	17	Closed	79	--		27405.9
02/26/14	17	17	Closed	82	--		28027.3
03/27/14	17.9	13	Closed	84	--		28723.8
04/30/14	18.2	13.1	Closed	108	--		29538.2
05/27/14	18.5	11.9	Closed	133	--		30187.8
06/26/14	17	11.7	Closed	181	--		30896.1
08/01/14	16.1	11.7	Closed	131	--		31765.9
08/28/14	16.7	16	Closed	133	--		32412.5
09/29/14	16	16	Closed	129	--		33178.4
10/29/14	16.2	16.1	Closed	99	--		33899.2
11/26/14	14.4	16	Closed	85	--		34569.1
12/31/14	14.3	14.1	Closed	94	--		35412.3
01/23/15	13.5	13.4	Closed	102	--		35964.8
02/27/15	16.5	16.9	Closed	91	--		36798.5
04/01/15	15.5	14.8	Closed	116	--		37589.3
04/30/15	15.2	14.4	Closed	111	--		38288.9
05/30/15	15.5	14.3	Closed	112	--		39005.6
06/29/15	14.3	13.9	Closed	115	--		39725
07/28/15	14.2	14.2	Closed	123	--		40425.1
		Continued					

12/22/09 ASP set to run 4hours on 4 hours off.

Quarterly Monitoring Report							
Facility Name: Former Agra CCC/USDA			Project # 1491				
Section 18 - Air Sparge (A/S) Wells / System Operation							
Complete A/S System (If applicable)							
Parameter:	System	Flow Rate	Bleed-Off	Pre	Post	Operation Time	
Units:	Pressure		Valve	Air Temp.	Air Temp.	Continuous	Cycling
Date	(psi)	(scfm)	(%) Open	(Deg. F)	(Deg. F)	(Hours)	(Hours)
08/27/15	18	15.7	Closed	129	--		41141.3
09/29/15	17	15.1	Closed	119	--		41933.8
10/29/15	17	14.6	Closed	111	--		42656.4
12/01/15	15	13.7	Closed	91	--		43448.8
01/02/16	16.5	11.2	Closed	96	--		44214.4
01/29/16	15.5	11.3	Closed	99	--		44863.9
02/18/16	System deactivated for rebound						
09/29/16	17	11.5	Closed	105	--		45554.9
10/28/16	16.2	11.5	Closed	116	--		46251.8
11/29/16	19.8	12.2	Closed	124	--		47017.9
12/29/16	20	11.6	Closed	127	--		47738.5
01/30/17	18	11.7	Closed	101	--		48507.2
02/23/17	18.7	11	Closed	115	--		49080.5
04/03/17	17	10	Closed	111	--		49977.7
04/27/17	19.3	11.5	Closed	106	--		50556.2
05/30/17	17.8	11.3	Closed	109	--		51345.9
06/28/17	17.5	11	Closed	133	--		52042.6
08/01/17	16	10.8	Closed	125	--		52858.4

Facility Name: Former Agra CCC/USDA

Quarterly Monitoring Report

Project #: 1491

Section 19 - SVE Well/Unit Vacuum Extraction Flow Rates & Totalizer / Analyzer Readings														
Well # / Unit #	Date	05/29/09	06/23/09	07/29/09	08/28/09	09/23/09	10/28/09	11/27/09	12/23/09	01/28/10	02/25/10	03/23/10	04/29/10	
SV-1 Manifold Vacuum ("H2O)		34.6	34	30.2	29	27	25.7	26.3	18.2	27	30.7	29.5	32.3	
SV-1 Wellhead Vacuum ("H2O)		34.6	31.6	28.2	26	24.6	22.9	24	16	24.3	23.2	28.4	30.6	
SV-1 Direct Read Flow Rate (CFM)		<40	66	36	30	60	40	35	38	56	39	47	51	
SV-2 Manifold Vacuum ("H2O)		32.8	34.6	31.8	30.7	29.2	29.1	29.6	26.1	30.1	34.9	31.3	31.1	
SV-2 Wellhead Vacuum ("H2O)		31.1	32.9	29.3	27.5	26.7	25.4	27.9	22.5	29.8	31.8	28.9	29.4	
SV-2 Direct Read Flow Rate (CFM)		<40	59	37	40	62	23	78	30	21	45	58	71	
SV-3 Manifold Vacuum ("H2O)		31.5	31.6	28.2	26.6	26.1	26.9	28.3	24.4	29.5	34.2	25.7	28.9	
SV-3 Wellhead Vacuum ("H2O)		29.7	38.9	24.7	23.8	23.1	24	26	19	27.9	26.6	23.4	25.9	
SV-3 Direct Read Flow Rate (CFM)		<40	77	45	40	61	27	89	38	19	36	42	35	
SV-4 Manifold Vacuum ("H2O)		29.2	29.1	26.9	26.6	24.6	24.9	25.5	22.2	26.8	31.9	24.2	19.7	
SV-4 Wellhead Vacuum ("H2O)		28.2	25.6	23.1	21.6	21.4	21.5	22.7	18.3	21.8	27.8	20.2	17.3	
SV-4 Direct Read Flow Rate (CFM)		50	47	48	50	45	42	43	45	44	47	42	35	
SV-5 Manifold Vacuum ("H2O)		34.8	33.5	29.4	28.7	26.1	26	25.8	19.2	28.9	33.6	27	20.8	
SV-5 Wellhead Vacuum ("H2O)		34.4	31.3	26.9	25.1	23.4	23.4	22.7	17.5	26.5	30.6	22.4	19.7	
SV-5 Direct Read Flow Rate (CFM)		<40	63	33	30	40	44	42	41	14	31	40	35	
Pre KO Tank Vacuum ("H2O)		46	42.9	40.5	39.4	38.9	38.4	38.9	36	39.8	45	40.1	41.4	
Before Filter ("H2O)		46	48	45	44	43	43	42	39	43	48	43	45	
After Filter ("H2O)		54	56	53	50	52	51	50	48	53	56	52	55	
Dilution Valve (% Open)		Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	
Cumulative Direct Read Flow Rate (scfm)		210	312	199	190	268	176	287	192	154	198	229	227	
K.O. Tank -Gallons Drained Meter Reading		0	0	0	0	0	0	Drained	Drained	Drained	Drained	Drained	0	

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Quarterly Monitoring Report	
Facility Name: Former Agra CCC/USDA	Project #: 1491

Facility Name: Former Agra CCC/USDA

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Facility Name: Former Agra CCC/USDA

Quarterly Monitoring Report

Project #: 1491

Section 19 - SVE Well/Unit Vacuum Extraction Flow Rates & Totalizer / Analyzer Readings														
Well # / Unit #	Date	07/28/15	08/27/15	09/29/15	10/29/15	12/01/15	01/02/16	01/29/16	04/29/16	09/29/16	10/28/16	11/29/16	12/29/16	
SV-1 Manifold Vacuum ("H2O)		9.6	8.5	8.1	7.5	7.8	10.3	9.7	System deactivated for rebound 2/18/16	12.8	11.6	11.8	12.3	
SV-1 Wellhead Vacuum ("H2O)		5.6	4.5	4.1	3.3	3.2	5.3	7.1		6	5.4	4.9	4.6	
SV-1 Direct Read Flow Rate (CFM)		50	50	50	50	55	50	40		55	55	55	55	
SV-2 Manifold Vacuum ("H2O)		9.6	8.6	8	7.4	8.3	8.5	11.2		12.3	11.3	11.8	12.3	
SV-2 Wellhead Vacuum ("H2O)		5.7	4.7	4	3.4	3.5	4.3	6.8		5.8	5.1	3.8	5.4	
SV-2 Direct Read Flow Rate (CFM)		50	50	50	50	50	50	50		55	55	55	55	
SV-3 Manifold Vacuum ("H2O)		20.2	11.9	11.2	11.1	12.1	10.1	12.8		24	21.8	21.4	21.1	
SV-3 Wellhead Vacuum ("H2O)		11.9	7.3	6.2	5.9	5.9	5.9	8.7		13.9	12.3	10.8	11	
SV-3 Direct Read Flow Rate (CFM)		73	50	53	54	55	50	50		65	65	65	55	
SV-4 Manifold Vacuum ("H2O)		28.8	-	-	15.2	-	-	10.5		-	18.3	-	-	
SV-4 Wellhead Vacuum ("H2O)		16.1	-	-	8.5	-	-	6.3		-	9.6	-	-	
SV-4 Direct Read Flow Rate (CFM)		89	-	-	70	-	-	55		-	60	-	-	
SV-5 Manifold Vacuum ("H2O)		26.7	-	-	14.9	-	-	11.2		-	21.1	-	-	
SV-5 Wellhead Vacuum ("H2O)		13	-	-	6.6	-	-	5.9		-	10.3	-	-	
SV-5 Direct Read Flow Rate (CFM)		94	-	-	70	-	-	55		-	65	-	-	
Pre KO Tank Vacuum ("H2O)		47.4	31.4	30.7	31	32.7	32.6	38.3		66.4	64.6	65	76.7	
Before Filter ("H2O)		58	41	42	41	43	46	49		-	-	-	-	
After Filter ("H2O)		64	47	49	49	52	54	56		74	66	-	89.7	
Dilution Valve (% Open)		Closed	Closed	Closed	Closed	Closed	Closed	Closed		Closed	Closed	Closed	Closed	
Cumulative Direct Read Flow Rate (scfm)		173	150	153	154	160	150	140		175	175	175	165	
K.O. Tank -Gallons Drained Meter Reading		0	0	0	0	0	0	0		0	0	0	0	

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 19 - SVE Well/Unit Vacuum Extraction Flow Rates & Totalizer / Analyzer Readings

Well # / Unit #	01/30/17	02/23/17	04/03/17	04/27/17	05/30/17	06/28/17	08/01/17
SV-1 Manifold Vacuum ("H2O)	12.6	7.2	10.5	10.8	16.2	10.8	8.1
SV-1 Wellhead Vacuum ("H2O)	7	3.5	5.6	7.2	12.4	7	5.6
SV-1 Direct Read Flow Rate (CFM)	50	50	50	50	50	50	50
SV-2 Manifold Vacuum ("H2O)	11.4	8.1	10.5	7.8	13.2	8.6	9
SV-2 Wellhead Vacuum ("H2O)	5.7	3.5	5.9	4.3	8.6	5.1	5.8
SV-2 Direct Read Flow Rate (CFM)	50	50	50	50	50	50	50
SV-3 Manifold Vacuum ("H2O)	16.5	12.7	16.2	11.6	15.6	11.8	12.3
SV-3 Wellhead Vacuum ("H2O)	9	5.6	8.9	6.4	11	7.2	7.1
SV-3 Direct Read Flow Rate (CFM)	50	50	50	50	50	50	50
SV-4 Manifold Vacuum ("H2O)	15.3	-	-	11.6	-	-	11.5
SV-4 Wellhead Vacuum ("H2O)	9	-	-	6.7	-	-	6.7
SV-4 Direct Read Flow Rate (CFM)	50	-	-	50	-	-	50
SV-5 Manifold Vacuum ("H2O)	38.1	-	-	26.4	-	-	41.3
SV-5 Wellhead Vacuum ("H2O)	33.1	-	-	21.3	-	-	35.8
SV-5 Direct Read Flow Rate (CFM)	50	-	-	50	-	-	50
Pre KO Tank Vacuum ("H2O)	84.4	60.8	59.4	59.1	59.1	55.9	52
Before Filter ("H2O)	-	-	-	-	-	-	64
After Filter ("H2O)	95.4	68.6	67.8	67.3	67.5	64	69.2
Dilution Valve (% Open)	Closed	Closed	Closed	Closed	Closed	Closed	Closed
Cumulative Direct Read Flow Rate (scfm)	150	150	150	150	150	150	150
K.O. Tank -Gallons Drained Meter Reading	0	0	0	0	0	0	0

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 20 - Operation & Maintenance Cost vs. Time

Date	1/16	4/16	7/16	10/16	1/17	4/17	8/17
Period Cost	\$5,055.00	\$1,447.50	\$1,472.50	\$4,205.00	\$5,055.00	\$5,055.00	\$5,055.00
Cumulative Cost	\$112,746.00	\$114,193.50	\$115,666.00	\$119,871.00	\$124,926.00	\$129,981.00	\$135,036.00

Date							
Period Cost							
Cumulative Cost							

OM&M Costs

Quarterly Monitoring Report**Facility Name:** Former Agra CCC/USDA**Project #:** 1491**Section 21 - Permits**

Permit	Permit #	Original Application Date	Renewal Date
Class V Injection Well (BOW)		Granted 5/22/2009	
Flushmount Waiver		Granted 5/29/2009	
Landfarm		Granted 10/16/2008	
Notification of Soil Vapor Extraction		Recognition Letter Received 1/21/2009	

Quarterly Monitoring Report		
Facility Name: Former Agra CCC/USDA		
Project #: 1491		
Section 22 - System Operation Time (hours)		
Date	SVE #1	A/S #1
	Start-up	Tested ASP
05/29/09	NR	NR
06/23/09	600.6	591.7
07/29/09	1445.6	1111.1
08/28/09	2121.5	1112.1
*9/23/2009	2211.2	1112.1
*10/28/2009	2221.1	1112.2
*11/27/2009	2221.1	1112.2
12/23/09	2221.2	1112.2
01/28/10	357.4	175.7
02/25/10	1030	507
03/23/10	1652.6	813
04/29/10	2539.1	1261.1
05/27/10	3216.6	1938.6
06/22/10	3834.5	2556.5
07/28/10	4699.3	3421.3
08/27/10	5420.7	3954.2
09/28/10	6189.1	3954.2
10/28/10	6905.8	4478.4
11/19/10	7438.3	5010.7
12/27/10	8348.7	5921.1
02/02/11	9236	6808.4
03/01/11	9884.1	7456.5
03/29/11	10552.7	7770.2
04/27/11	11249.8	8467.3
05/25/11	11921.6	9138.8
08/30/11	14246.5	9138.9
09/26/11	14894.1	9138.9
10/27/11	15638.1	9644.7
11/28/11	16405.5	10407.5
	Continued	
Total Oper. Hrs. for Rept. Period	---	---
Potential Oper. Hrs for Quarter	---	---

*Bad Hour meter SVE and ASP

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 22 - System Operation Time (hours)

Date	SVE #1	A/S #1
	Start-up	Tested ASP
12/29/11	17153.5	11155.5
01/26/12	17822.8	11824.4
02/21/12	18446.9	12448.6
03/29/12	19334.7	13336.4
04/26/12	20005.5	14000.7
05/31/12	20820.2	14642.9
06/28/12	21490.7	15313.4
07/31/12	22283.2	16105.7
08/31/12	23027.2	16849.7
09/27/12	23676.1	17498.6
10/30/12	24466.2	18288.7
12/01/12	25235.3	18288.9
12/28/12	25881.9	18288.9
02/01/13	26724.4	18671.6
02/28/13	27370.3	19317.5
03/26/13	27992.7	19939.9
04/26/13	28740.4	20687.2
05/30/13	29553.1	21499.8
06/27/13	30225	22171.8
08/01/13	31067.8	23014.5
08/30/13	31759.5	23706.2
09/27/13	32431.9	24378.7
10/29/13	33201.2	25148
12/02/13	34016.9	25963.7
12/28/13	34641	26587.8
01/31/14	35459.1	27405.9
02/26/14	36080.5	28027.3
03/27/14	36777	28723.8
04/30/14	37591.4	29538.2
05/27/14	38241	30187.8
06/26/14	38949.2	30896.1
08/01/14	39819	31765.9
08/28/14	40465.6	32412.5
09/29/14	41231.5	33178.4
10/29/14	41952.3	33899.2
11/26/14	42622.2	34569.1
12/31/14	43465.4	35412.3
01/23/15	44017.9	35964.8
	Continued	
Total Oper. Hrs. for Rept. Period	0	0
Potential Oper. Hrs for Quarter	0	0

*Bad Hour meter SVE and ASP

Quarterly Monitoring ReportFacility Name: Former Agra CCC/USDAProject #: 1491**Section 22 - System Operation Time (hours)**

Date	SVE #1	A/S #1
2/27/2015	44851.5	36798.5
04/01/15	45642.3	37589.3
04/30/15	46342	38288.9
05/30/15	47058.7	39005.6
06/29/15	47778	39725
07/28/15	48478.1	40425.1
08/27/15	49194.4	41141.3
09/29/15	49986.8	41933.8
10/29/15	50709.4	42656.4
12/01/15	51501.7	43448.8
01/02/16	52267.4	44214.4
01/29/16	52916.9	44863.9
02/18/16	System deactivated for rebound	
04/29/16	NR	NR
09/29/16	53607.9	45554.9
10/28/16	54304.9	46251.8
11/29/16	55071	47017.9
12/29/16	55791.6	47738.5
01/30/17	56560.3	48507.2
02/23/17	57133.6	49080.5
04/03/17	58030.8	49977.7
04/27/17	58609.3	50556.2
05/30/17	59399	51345.9
06/28/17	60095.6	52042.6
08/01/17	60911.5	52858.4
Total Oper. Hrs. for Rept. Period	2302.2	2302.2
Potential Oper. Hrs for Quarter	2304	2304

*Bad Hour meter SVE and ASP

SB43

SB69

⊕GW4

●SB45

●SB46

●SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

LDB4
SVE-4/AS-4

LDB5
SVE-5/AS-5

SVE-3/AS-3
LDB3

⊕GW2

GW3⊕

GW1⊕

LDB2
SVE-2/AS-2

LDB1
SVE-1/AS-1

MW-P⊕

●SB49

⊕GW5

MW-J⊕

- ⊕ MONITORING WELL
- 2005 INVESTIGATION LOCATION
- ⊕ CCC/USDA MONITORING WELL
- ⊕ LDB LOCATION

0 20' 40'

SCALE: 1" = 20'

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 1:
SITE BASE MAP

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

●SB45

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

218

⊕GW4

●SB46

●SB68

⊕LDB5
SVE-5/AS-5

⊕LDB4
SVE-4/AS-4

SVE-3/AS-3
⊕LDB3

⊕GW2

⊕GW3

1130

ND 10 100 1000

⊕GW1

46.7

⊕LDB2
SVE-2/AS-2

⊕LDB1
SVE-1/AS-1

MW-P

●SB49

⊕GW5

MW-J

- ⊕ MONITORING WELL
- 2005 INVESTIGATION LOCATION
- ⊕ CCC/USDA MONITORING WELL
- ⊕ LDB LOCATION
- 123.4 CARBON TETRACHLORIDE (ppb)

0 20' 40'

SCALE: 1" = 20'

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 21
CARBON TETRACHLORIDE IN GROUNDWATER
SAMPLED: 08/01/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

⊕GW4 3.5

●SB45

●SB46

●SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

LDB4
SVE-4/AS-4

LDB5
SVE-5/AS-5

SVE-3/AS-3
LDB3

⊕GW2

GW3⊕

ND (<20)

5.5 GW1⊕

LDB2
SVE-2/AS-2

LDB1
SVE-1/AS-1

MW-P

●SB49

⊕GW5

MW-J

● MONITORING WELL
● 2005 INVESTIGATION LOCATION
⊕ CCC/USDA MONITORING WELL
⊗ LDB LOCATION
123.4 CHLOROFORM (ppb)

0 20' 40'
SCALE: 1" = 20'

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 34
CHLOROFORM IN GROUNDWATER
SAMPLED: 08/01/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

ND
⊕ GW4

● SB45

● SB46

● SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

LDB4
SVE-4/AS-4

LDB5
SVE-5/AS-5

SVE-3/AS-3
LDB3

⊕ GW2

GW3 ⊕

ND
⊕ GW1

ND

LDB2
SVE-2/AS-2

LDB1
SVE-1/AS-1

MW-P ⊕

● SB49

⊕ GW5

MW-J ⊕

⊕ MONITORING WELL
● 2005 INVESTIGATION LOCATION
⊕ CCC/USDA MONITORING WELL
⊕ LDB LOCATION
123.4 1,2 DCA (ppb)

0 20' 40'
SCALE: 1" = 20'

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 4
1,2 DCA IN GROUNDWATER
SAMPLED: 08/01/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

APPENDIX 1

LABORATORY INFORMATION

Technical Report for

GeoCore, Inc.-Remediation

AGRA CCC/USDA, Agra, KS

1491

SGS Accutest Job Number: FA46366

Sampling Date: 08/01/17

Report to:

GeoCore, Inc
2775 Arnold Ave Suite D
Salina, KS 67401
jlaire@geocore.net; dcorl@geocore.net

ATTN: Dave Corl

Total number of pages in report: 15

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Sue Bell 407-425-6700

Certifications: FL(BS510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FLO2), NY(12022), SC(96038001)
DoD ELAP(A-B L2229), AZ(AZ0806), CA(8337), TX(T10470400), PA(88-03573), VA(40177).

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Sections:

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: FA46366-1: GW-1	6
3.2: FA46366-2: GW-3	7
3.3: FA46366-3: GW-4	8
Section 4: Misc. Forms	9
4.1: Chain of Custody	10
Section 5: GC/MS Volatiles - QC Data Summaries	12
5.1: Method Blank Summary	13
5.2: Blank Spike Summary	14
5.3: Matrix Spike/Matrix Spike Duplicate Summary	15

Sample Summary

GeoCore, Inc.-Remediation
 AGRA CCC/USDA, Agra, KS
 Project No: 1491
 Job No: FA46366

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
FA46366-1	08/01/17	15:50 DC	AQ	Ground Water	GW-1
FA46366-2	08/01/17	16:50 DC	AQ	Ground Water	GW-3
FA46366-3	08/01/17	16:20 DC	AQ	Ground Water	GW-4

Summary of Hits
 Job Number: FA46366
 Account: GeoCore, Inc.-Remediation
 Project: AGRA CCC/USDA, Agra, KS
 Collected: 08/01/17

Lab Sample ID	Client Sample ID	Result/Qual	RL	MDL	Units	Method
FA46366-1	GW-1					
Carbon Tetrachloride		46.7	1.0		ug/l	SW846 8260B
Chloroform		5.5	1.0		ug/l	SW846 8260B
FA46366-2	GW-3					
Carbon Tetrachloride		1330	20		ug/l	SW846 8260B
FA46366-3	GW-4					
Carbon Tetrachloride		218	2.5		ug/l	SW846 8260B
Chloroform		3.5	2.5		ug/l	SW846 8260B

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Page 1 of 1

3

Client Sample ID: GW-1
Lab Sample ID: FA46386-1
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: Agra CCC/USDA, Agra, KS

Date Sampled: 08/01/17
Date Received: 08/03/17
Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0104843.D	1	08/10/17 12:37	WV	n/a	n/a	VN4790
Run #2							

Purge Volume
Run #1 5.0 ml
Run #2

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	46.7	1.0	ug/l	
67-66-3	Chloroform	5.5	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	103%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%	
2037-26-5	Toluene-D8	98%		85-112%	
460-00-4	4-Bromofluorobenzene	100%		83-118%	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.2

Client Sample ID: GW-3		Date Sampled: 08/01/17			
Lab Sample ID: FA46366-2		Date Received: 08/03/17			
Matrix: AQ - Ground Water		Percent Solids: n/a			
Method: SW846 8260B					
Project: AGRA CCC/USDA, Agra, KS					
File ID	DF	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0104844.D	20	08/10/17 13:01	WV	n/a
Run #2					
Purge Volume					
Run #1	5.0 ml				
Run #2					

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	1130	20	ug/l	
67-66-3	Chloroform	ND	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%	
2037-26-5	Toluene-D8	98%		85-112%	
460-00-4	4-Bromofluorobenzene	100%		83-118%	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.3

Client Sample ID: GW-4		Date Sampled: 08/01/17			
Lab Sample ID: FA46366-3		Date Received: 08/03/17			
Matrix: AQ - Ground Water		Percent Solids: n/a			
Method: SW846 8260B					
Project: AGRA CCC/USDA, Agra, KS					
File ID	DF	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0104845.D	2.5	08/10/17 13:24	WV	n/a
Run #2					
Purge Volume					
Run #1	5.0 ml				
Run #2					

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	218	2.5	ug/l	
67-66-3	Chloroform	3.5	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	99%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%	
2037-26-5	Toluene-D8	98%		85-112%	
460-00-4	4-Bromofluorobenzene	101%		83-118%	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest Sample Receipt Summary

Job Number: FA46366 Client: GEOCORE INC. Project: FORMER AGRA
 Date / Time Received: 8/3/2017 9:00:00 AM Delivery Method: FX Airbill #: 81100811162166304

Therm ID: IR 1; Therm CF: 0.4; # of Coolers: 1
 Cooler Temp (Raw Measured) °C: Cooler 1: (3.8);
 Cooler Temp (Corrected) °C: Cooler 1: (4.2);

Cooler Information		Y or N		Sample Information		Y or N		N/A	
1. Custody Seal Present	☒	☒	☒	1. Sample labels present on bottles	☒	☒	☒	☒	☒
2. Custody Seal Intact	☒	☒	☒	2. Samples preserved properly	☒	☒	☒	☒	☒
3. Temp criteria achieved	☒	☒	☒	3. Sufficient volume/containers record for analysis	☒	☒	☒	☒	☒
4. Cooler temp verification	☒	☒	☒	4. Condition of sample	☒	☒	☒	☒	☒
5. Cooler media	☒	☒	☒	5. Sample record within HT	☒	☒	☒	☒	☒
True Blank Information				Data/Time/ID on COC match Sample Label					
1. Trip Blank present / cooler	☒	☒	☒	7. VOCs have headspace	☒	☒	☒	☒	☒
2. Trip Blank listed on COC	☒	☒	☒	8. Bottles received for unspecified tests	☒	☒	☒	☒	☒
3. Type of TB Received				9. Compounding instructions clear					
☒ W or S				10. You Sol Kit/Jars received past 48hrs?					
☒ N/A				11. % Solids Jar received?					
☒				12. Residual Chlorine Present?					
☒									

Misc. Information		Number of 5035 Field Kit:		Number of Lab Filtered Metals:	
Number of Encores:	25-Gram	pH 0-3	230315	pH 10-12	218813A
Test Strip Lot #:		Residual Chlorine Test Strip Lot #:		Other: (Specify)	
Comments					

Sales Rep: Date 08/04/17 Technician: PETERH Date: 8/3/2017 9:00:00 AM Reviewer: SP Date: 8/3/2017

FA46366: Chain of Custody
 Page 2 of 2

SGS

ACCUTEST
 Southeast

Section 5

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA46366
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN4790-MB	N0104841.D	1	08/10/17	WV	n/a	n/a	VN4790

The QC reported here applies to the following samples:

FA46366-1, FA46366-2, FA46366-3

Method: SW846 8260B

5.1.1

5

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	ND	1.0	ug/l	
67-66-3	Chloroform	0.42	1.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Limits			
1868-53-7	Dibromofluoromethane	97%	83-118%		
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%		
2037-26-5	Toluene-D8	97%	85-112%		
460-00-4	4-Bromofluorobenzene	100%	83-118%		

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA46366
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN4790-BS	N0104840.D	1	08/10/17	WV	n/a	n/a	VN4790

The QC reported here applies to the following samples:

FA46366-1, FA46366-2, FA46366-3

Method: SW846 8260B

5.2.1

5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	25	22.1	88	76-136
67-66-3	Chloroform	25	21.2	85	80-124
107-06-2	1,2-Dichloroethane	25	21.5	86	75-125
CAS No.	Surrogate Recoveries	BSP Limits			
1868-53-7	Dibromofluoromethane	101%	83-118%		
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%		
2037-26-5	Toluene-D8	99%	85-112%		
460-00-4	4-Bromofluorobenzene	101%	83-118%		

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA46366
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA46366-2MS	N0104847.D	20	08/10/17	WV	n/a	n/a	VN4790
FA46366-2MSD	N0104848.D	20	08/10/17	WV	n/a	n/a	VN4790
FA46366-2	N0104844.D	20	08/10/17	WV	n/a	n/a	VN4790

The QC reported here applies to the following samples:

FA46366-1, FA46366-2, FA46366-3

Method: SW846 8260B

CAS No.	Compound	FA46366-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	1130	500	500	1500	74% ^a	500	1470	68% ^a	2	76-136/23
67-66-3	Chloroform	16.2	500	500	479	93	500	459	89	4	80-124/15
107-06-2	1,2-Dichloroethane	ND	500	500	465	93	500	450	90	3	75-125/14

CAS No.	Surrogate Recoveries	MS	MSD	FA46366-2	Limits
1868-53-7	Dibromofluoromethane	101%	100%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	97%	79-125%
2037-26-5	Toluene-D8	100%	99%	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	100%	100%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Technical Report for

GeoCore, Inc.
Agra CCC/USDA
1491

SGS Accutest Job Number: JC48192

Sampling Date: 08/01/17

Report to:

GeoCore, Inc.
2775 Arnold Avenue P.O. Box 386
Salina, KS 67401
BOentrich@GeoCore.net; JLaird@GeoCore.net;
DCorl@GeoCore.net
ATTN: Brad Oentrich

Total number of pages in report: 28

Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

Client Service contact: Rocus Peters 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC,
OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, D&D ELAP (L-A-B 12248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JC48192-1: SVE-1	6
3.2: JC48192-2: SVE-2	7
3.3: JC48192-3: SVE-3	8
3.4: JC48192-4: SVE-4	9
3.5: JC48192-5: SVE-5	10
3.6: JC48192-6: SVE MANIFOLD	11
Section 4: Misc. Forms	12
4.1: Chain of Custody	13
4.2: Summa Canister and Flow Controller Log	15
Section 5: GC/MS Volatiles - QC Data Summaries	16
5.1: Method Blank Summary	17
5.2: Blank Spike/Blank Spike Duplicate Summary	19
5.3: Duplicate Summary	21
5.4: Summa Cleaning Certification	22
5.5: Instrument Performance Checks (BFB)	23
5.6: Surrogate Recovery Summaries	28

Sample Summary

GeoCore, Inc. Job No: JC48192
 Agra CCC/USDA
 Project No: 1491

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
JC48192-1	08/01/17	13:55 DC	AIR	Soil Vapor Grab	SVE-1
JC48192-2	08/01/17	14:05 DC	AIR	Soil Vapor Grab	SVE-2
JC48192-3	08/01/17	14:15 DC	AIR	Soil Vapor Grab	SVE-3
JC48192-4	08/01/17	14:40 DC	AIR	Soil Vapor Grab	SVE-4
JC48192-5	08/01/17	15:10 DC	AIR	Soil Vapor Grab	SVE-5
JC48192-6	08/01/17	14:25 DC	AIR	Soil Vapor Grab	SVE MANIFOLD

Summary of Hits
 Job Number: JC48192
 Account: GeoCore, Inc.
 Project: Agra CCC/USDA
 Collected: 08/01/17

Lab Sample ID	Client Sample ID	Remit/Qual	RL	MDL	Units	Method
JC48192-1	SVE-1					
No hits reported in this sample.						
JC48192-2	SVE-2					
No hits reported in this sample.						
JC48192-3	SVE-3					
Chloroform		0.38 J	0.80	0.12	ppbv	TO-15
Carbon tetrachloride		22.9	0.80	0.080	ppbv	TO-15
Chloroform		1.9 J	3.9	0.59	ug/m3	TO-15
Carbon tetrachloride		144	5.0	0.50	ug/m3	TO-15
JC48192-4	SVE-4					
Carbon tetrachloride		2.4	0.80	0.080	ppbv	TO-15
Carbon tetrachloride		15	5.0	0.50	ug/m3	TO-15
JC48192-5	SVE-5					
Chloroform		0.70 J	0.80	0.12	ppbv	TO-15
Carbon tetrachloride		69.1	0.80	0.080	ppbv	TO-15
Chloroform		3.4 J	3.9	0.59	ug/m3	TO-15
Carbon tetrachloride		378	5.0	0.50	ug/m3	TO-15
JC48192-6	SVE MANIFOLD					
Carbon tetrachloride		7.0	0.80	0.080	ppbv	TO-15
Carbon tetrachloride		44	5.0	0.50	ug/m3	TO-15

Section 3

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

3.1

3

Client Sample ID: SVE-1
Lab Sample ID: JC48192-1
Matrix: AIR - Soil Vapor Grab Summa ID: A698
Method: TO-15
Project: Agra CCC/USDA

Date Sampled: 08/01/17
Date Received: 08/03/17
Percent Solids: n/a

File ID 5W25942.D DF 1 Analyzed 08/11/17 01:50 TCH By n/a Prep Date n/a Prep Batch n/a Analytical Batch V5W1022

Initial Volume

Run #1 100 ml

Run #2

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.80	0.12	ppbv		ND	3.9	0.59	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.080	ppbv		ND	5.0	0.50	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
CAS No.		Surrogate Recoveries	Run# 1	Run# 2	Limits						
460-00-4		4-Bromofluorobenzene	97%		65-128%						

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

MDL = Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

3.3

Client Sample ID:	SVE-2	Lab Sample ID:	JC48192-2	Date Sampled:	08/01/17
Matrix:	AIR - Soil Vapor Grab	Summa ID:	A592	Date Received:	08/03/17
Method:	TO-15	Percent Solids:	n/a		
Project:	Agra CCC/USDA				
File ID	DF	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W25943.D	1	08/11/17 02:36	TCH	n/a
Run #2					V5W1022
Initial Volume					
Run #1	100 ml				
Run #2					

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.80	0.12	ppbv	ND	3.9	0.59	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.080	ppbv	ND	5.0	0.50	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv	ND	3.2	0.45	ug/m3	
CAS No.	Surrogate Recoveries		Run# 1	Run# 2	Limits						
460-00-4	4-Bromofluorobenzene		98%		65-128%						

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

3.3

3

SGS Accutest

Report of Analysis

Page 1 of 1

3.3

Client Sample ID:	SVE-3	Lab Sample ID:	JC48192-3	Date Sampled:	08/01/17
Matrix:	AIR - Soil Vapor Grab	Summa ID:	A589	Date Received:	08/03/17
Method:	TO-15	Percent Solids:	n/a		
Project:	Agra CCC/USDA				
File ID	DF	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W25944.D	1	08/11/17 03:21	TCH	n/a
Run #2					V5W1022
Initial Volume					
Run #1	100 ml				
Run #2					

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	0.38	0.80	0.12	ppbv	J	1.9	3.9	0.59	ug/m3
56-23-5	153.8	Carbon tetrachloride	22.9	0.80	0.080	ppbv		144	5.0	0.50	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv	ND	ND	3.2	0.45	ug/m3
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	97%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

3.3

3

3

Report of Analysis

Page 1 of 1

3.4

3

Client Sample ID: SVE-4		Date Sampled: 08/01/17	
Lab Sample ID: JC48192-4		Date Received: 08/03/17	
Matrix: AIR - Soil Vapor Grab		Summa ID: A415	
Method: TO-15		Percent Solids: n/a	
Project: Agra CCC/USDA			
File ID	DF	By	Prep Date
Run #1	5W25945.D	1	08/11/17 04:06 TCH
Run #2			n/a
Analytical Batch			
V5W1022			
Initial Volume			
Run #1 100 ml			
Run #2			

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.80	0.12	ppbv	ND	3.9	0.59	ug/m3	
56-23-5	153.8	Carbon tetrachloride	2.4	0.80	0.080	ppbv	15	5.0	0.50	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv	ND	3.2	0.45	ug/m3	
CAS No.	Surrogate Recoveries		Run# 1	Run# 2	Limits						
460-00-4	4-Bromofluorobenzene		96%		65-128%						

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

MDL = Method Detection Limit
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.5

3

Client Sample ID: SVE-5		Date Sampled: 08/01/17	
Lab Sample ID: JC48192-5		Date Received: 08/03/17	
Matrix: AIR - Soil Vapor Grab		Summa ID: A532	
Method: TO-15		Percent Solids: n/a	
Project: Agra CCC/USDA			
File ID	DF	By	Prep Date
Run #1	5W25946.D	1	08/11/17 04:52 TCH
Run #2			n/a
Analytical Batch			
V5W1022			
Initial Volume			
Run #1 100 ml			
Run #2			

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	0.70	0.80	0.12	ppbv	J	3.4	3.9	0.59	ug/m3
56-23-5	153.8	Carbon tetrachloride	60.1	0.80	0.080	ppbv		378	5.0	0.50	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv	ND	ND	3.2	0.45	ug/m3
Limits											
CAS No.	Surrogate Recoveries	Run# 1	Run# 2								
460-00-4	4-Bromofluorobenzene	95%		65-128%							

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

MDL = Method Detection Limit
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: SVE MANIFOLD
Lab Sample ID: JC48192-6
Matrix: AIR - Soil Vapor Grab Summa ID: A792
Method: TO-15
Project: Agra CCC/USDA

Date Sampled: 08/01/17
Date Received: 08/03/17
Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W25947.D	1	08/11/17 05:37	TCH	n/a	n/a	V5W1022
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-86-3	119.4	Chloroform	ND	0.80	0.12	ppbv	ND	ND	3.9	0.59	ug/m3
56-23-5	153.8	Carbon tetrachloride	7.0	0.80	0.080	ppbv	44	44	5.0	0.50	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv	ND	ND	3.2	0.45	ug/m3
CAS No.		Surrogate Recoveries	Run# 1	Run# 2	Limits						
460-00-4		4-Bromofluorobenzene	97%		65-128%						

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS

ACCUTEST
New Jersey

Section 4

4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

4.1

Form with sections: Lab Sample #, Custody, Sampling Information, Blank Sampling Information, and Initial Assessment. Includes handwritten entries for sample IDs, dates, and times.

4.1 4

Form with sections: Job Number, Date / Time Received, Cooler Temps, Cooler Temp (Corrected), Cooler Security, Cooler Temp Verification, Cooler Media, Cooler Coolant, Quality Control, and Sample Integrity. Includes checkboxes and handwritten data.

5/10/2016
Rev. Date 12/1/16

Summa Canister and Flow Controller Log

Job Number: JC48192
 Account: GCKSS GeoCore, Inc.
 Project: Agra CCC/USDA
 Received: 08/03/17

SGS

ACCUTEST
 New Jersey

Section 5

4.2 4

SUMMA CANISTERS											
Shipping				Receiving							
Summa ID	L	Vac	Date	By	SCC Batch	FileID	Sample Number	Date In	By	Vac	Pres
		"Hg	Out							"Hg	psig
A698	1	29.4	07/26/17	RC	CP9270	5W25507.D	JC48192-1	08/04/17	JR	3.5	
A582	1	29.4	07/26/17	RC	CP9270	5W25507.D	JC48192-2	08/04/17	JR	3.5	
A589	1	29.4	07/26/17	RC	CP9270	5W25507.D	JC48192-3	08/03/17	HD	3.5	
A415	1	29.4	07/26/17	RC	CP9270	5W25507.D	JC48192-4	08/03/17	HD	4	
A532	1	29.4	07/26/17	RC	CP9270	5W25507.D	JC48192-5	08/03/17	HD	6	
A782	1	29.4	07/26/17	RC	CP9270	5W25507.D	JC48192-6	08/04/17	JR	2.5	

FLOW CONTROLLERS / OTHER											
Shipping				Receiving							
Flow Ctrl ID	Date	cc/ min	Time hrs	By	Date	cc/ min	Time RPD	Equipment	Type		
FC507	07/19/17	PC	3.1	24	08/03/17	HD	3.3	6.2	Flow Controller		
FC568	07/19/17	PC	3.1	24	08/03/17	HD	2.2	34*	Flow Controller		
FC572	07/19/17	PC	3.1	24	08/03/17	HD	2.8	10.2	Flow Controller		
FC594	07/19/17	PC	3.1	24	08/03/17	HD	3.3	6.2	Flow Controller		
FC660	07/19/17	PC	3.1	24	08/03/17	HD	2.7	13.8	Flow Controller		
FC689	07/12/17	PC	9.4	8	08/03/17	HD	9.4	0	Flow Controller		
FC679	07/19/17	PC	3.1	24	08/03/17	HD	2.7	13.8	Flow Controller		
FC731	07/19/17	PC	3.1	24	08/03/17	HD	2.7	13.8	Flow Controller		
MC195	07/19/17	PC	3.1	24	08/03/17	HD	2.4	25.5*	Flow Controller		
MC206	07/19/17	PC	3.1	24	08/03/17	HD	3.1	0	Flow Controller		
MC229	07/12/17	PC	9.4	8	08/03/17	HD	2.9	6.7	Flow Controller		
					08/03/17	HD	9.3	1.1	Flow Controller		

* Flow controller RPD > 20%

SGS Accutest Bottle Order(s):

RP-07617-166
 MJ-071217-58
 MV-071017-191
 RP-062917-124

Prep Date 07/26/17 Room Temp(F) 70 Bar Pres "Hg 29.92

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC48192
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Job Number: JC48192
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	By	Prep Date	Prep Batch	Analytical Batch
V5W1022-MB	5W25927.D	1	TCH	n/a	n/a	V5W1022

Sample	File ID	DF	By	Prep Date	Prep Batch	Analytical Batch
V5W1006-MB	5W25506.D	1	TCH	n/a	n/a	V5W1006

The QC reported here applies to the following samples:

JC48192-1, JC48192-2, JC48192-3, JC48192-4, JC48192-5, JC48192-6

Method: TO-15

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.031	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.020	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv	ND	ND	0.81	ug/m3

CAS No. Surrogate Recoveries

460-00-4 4-Bromofluorobenzene 97% 65-128%

5.1.1

5

5.1.2

5

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC48192
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1022-BS	5W25924.D	1	08/10/17	TCH	n/a	n/a	V5W1022
V5W1022-BSD	5W25925.D	1	08/10/17	TCH	n/a	n/a	V5W1022

The QC reported here applies to the following samples:

JC48192-1, JC48192-2, JC48192-3, JC48192-4, JC48192-5, JC48192-6

Method: TO-15

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-66-3	Chloroform	10	10.7	107	10.3	103	4	70-130/30
56-23-5	Carbon tetrachloride	10	11.3	113	11.1	111	2	70-130/30
107-06-2	1,2-Dichloroethane	10	11.2	112	11.0	110	2	70-130/30
CAS No.	Surrogate Recoveries	BSP	BSD	Limits				
460-00-4	4-Bromofluorobenzene							65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC48192
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1006-BS	5W25502.D	1	07/25/17	TCH	n/a	n/a	V5W1006
V5W1006-BSD	5W25504.D	1	07/25/17	TCH	n/a	n/a	V5W1006

The QC reported here applies to the following samples:

V5W1006-SCC

Method: TO-15

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-66-3	Chloroform	10	10.4	104	10.4	104	0	70-130/30
56-23-5	Carbon tetrachloride	10	12.9	129	13.2	132*	2	70-130/30
107-06-2	1,2-Dichloroethane	10	11.9	119	11.9	119	0	70-130/30
CAS No.	Surrogate Recoveries	BSP	BSD	Limits				
460-00-4	4-Bromofluorobenzene							65-128%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC48192
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC48053-3DUP	5W25938.D	1.48	08/10/17	TCH	n/a	n/a	V5W1022
JC48053-3	5W25937.D	1.48	08/10/17	TCH	n/a	n/a	V5W1022

5.3.1

5

The QC reported here applies to the following samples: Method: TO-15

JC48192-1, JC48192-2, JC48192-3, JC48192-4, JC48192-5, JC48192-6

CAS No.	Compound	JC48053-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-66-3	Chloroform	10	9.7	3	12		
56-23-5	Carbon tetrachloride	0.10	J	0.10	J	0	10
107-06-2	1,2-Dichloroethane	ND	ND	ND	nc	20	20

CAS No.	Surrogate Recoveries	JC48053-3	Limits
460-00-4	4-Bromofluorobenzene	107%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Page 1 of 1

Job Number: JC48192
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1006-SCC	5W25507.D	1	07/25/17	TCH	n/a	n/a	V5W1006

5.4.1

5

The QC reported here (Summa A807) applies to the following samples: Method: TO-15

Batch CP9270 cleaned 07/20/17: JC48192-1(A698), JC48192-2(A592), JC48192-3(A589), JC48192-4(A415), JC48192-5(A532), JC48192-6(A792)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.031	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.020	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv	ND	ND	0.81	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	105% 65-128%

Instrument Performance Check (BFB)

Job Number: JC48192
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 2

Sample: V5W988-BFB
Lab File ID: 5W25035.D
Instrument ID: GCMSSW

Injection Date: 07/05/17
Injection Time: 09:00

m/e Ion Abundance Criteria Raw Abundance % Relative Abundance Pass/Fail

50	8.0 - 40.0% of mass 95	43245	14.2	Pass
75	30.0 - 66.0% of mass 95	126808	41.6	Pass
95	Base peak, 100% relative abundance	304860	100.0	Pass
96	5.0 - 9.0% of mass 95	20467	6.71	Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) ^a
174	50.0 - 120.0% of mass 95	265877	87.2	Pass
175	4.0 - 9.0% of mass 174	20184	6.62	(7.59) ^a
176	93.0 - 101.0% of mass 174	257728	84.5	(86.9) ^a
177	5.0 - 9.0% of mass 176	17059	5.60	(6.62) ^b

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W988-IC988	5W25036.D	07/05/17	09:46	00:46	Initial cal 0.2
V5W988-IC988	5W25037.D	07/05/17	10:43	01:43	Initial cal 0.5
V5W988-IC988	5W25038.D	07/05/17	11:29	02:29	Initial cal 10
V5W988-IC988	5W25039.D	07/05/17	12:35	03:35	Initial cal 0.1
V5W988-IC988	5W25040.D	07/05/17	13:19	04:19	Initial cal 0.04
V5W988-IC988	5W25041.D	07/05/17	14:12	05:12	Initial cal 5
V5W988-IC988	5W25042.D	07/05/17	14:59	05:59	Initial cal 20
V5W988-IC988	5W25043.D	07/05/17	15:50	06:50	Initial cal 40
V5W988-IC988	5W25044.D	07/05/17	17:04	08:04	Initial cal verification 10
V5W988-BS	5W25045.D	07/05/17	17:49	08:49	Blank Spike
V5W988-BSD	5W25047.D	07/05/17	19:31	10:31	Blank Spike Duplicate
V5W988-MB	5W25048.D	07/05/17	20:22	11:22	Method Blank
JC45032-3R	5W25049.D	07/05/17	21:15	12:15	Duplicate
JC45032-3RDUP	5W25050.D	07/05/17	22:06	13:06	(unrelated sample)
ZZZZZZ	5W25051.D	07/05/17	22:57	13:57	(unrelated sample)
ZZZZZZ	5W25052.D	07/05/17	23:42	14:42	(unrelated sample)
ZZZZZZ	5W25053.D	07/06/17	00:27	15:27	(unrelated sample)
ZZZZZZ	5W25054.D	07/06/17	01:12	16:12	(unrelated sample)
ZZZZZZ	5W25056.D	07/06/17	02:43	17:43	(unrelated sample)
ZZZZZZ	5W25057.D	07/06/17	03:28	18:28	(unrelated sample)
ZZZZZZ	5W25058.D	07/06/17	04:21	19:21	(unrelated sample)
ZZZZZZ	5W25059.D	07/06/17	05:07	20:07	(unrelated sample)
ZZZZZZ	5W25060.D	07/06/17	05:52	20:52	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JC48192
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 2 of 2

Sample: V5W988-BFB
Lab File ID: 5W25035.D
Instrument ID: GCMSSW

Injection Date: 07/05/17
Injection Time: 09:00

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W25061.D	07/06/17	06:37	21:37	(unrelated sample)
V5W988-ECC988	5W25062.D	07/06/17	07:22	22:22	Ending cal 10

5.5.1

5

5.5.1

5

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JC48192
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample: V5W1006-BFB
Lab File ID: 5W25500.D
Instrument ID: GCMSSW
Injection Date: 07/25/17
Injection Time: 09:56

5.5.2

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	20089	16.1	Pass
75	30.0 - 66.0% of mass 95	58403	46.8	Pass
95	Base peak, 100% relative abundance	124923	100.0	Pass
96	5.0 - 9.0% of mass 95	8131	6.51	Pass
173	Less than 2.0% of mass 174	509	0.41	Pass
174	50.0 - 120.0% of mass 95	114829	91.9	Pass
175	4.0 - 9.0% of mass 174	8504	6.81	Pass
176	93.0 - 101.0% of mass 174	110928	88.8	Pass
177	5.0 - 9.0% of mass 176	7401	5.92	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1006-CC988	5W25501.D	07/25/17	10:42	00:46	Continuing cal 10
V5W1006-B5	5W25502.D	07/25/17	12:22	02:26	Blank Spike
V5W1006-BSD	5W25504.D	07/25/17	14:28	04:32	Blank Spike Duplicate
V5W1006-MB	5W25506.D	07/25/17	16:11	06:15	Method Blank
V5W1006-SCC	5W25507.D	07/25/17	17:03	07:07	Summa Cleaning Certification
V5W1006-SCC	5W25508.D	07/25/17	17:55	07:59	Summa Cleaning Certification
V5W1006-SCC	5W25509.D	07/25/17	18:46	08:50	Summa Cleaning Certification
V5W1006-SCC	5W25510.D	07/25/17	19:37	09:41	Summa Cleaning Certification
V5W1006-SCC	5W25511.D	07/25/17	20:28	10:32	Summa Cleaning Certification
V5W1006-SCC	5W25512.D	07/25/17	21:20	11:24	Summa Cleaning Certification
ZZZZZZ	5W25513.D	07/25/17	22:05	12:09	(unrelated sample)
ZZZZZZ	5W25514.D	07/25/17	22:51	12:55	(unrelated sample)
ZZZZZZ	5W25515.D	07/25/17	23:38	13:42	(unrelated sample)
ZZZZZZ	5W25516.D	07/26/17	00:23	14:27	(unrelated sample)
ZZZZZZ	5W25517.D	07/26/17	01:17	15:21	(unrelated sample)
5W25518.D	07/26/17	02:08	16:12	16:12	(used for QC only; not part of job JC48192)
5W25519.D	07/26/17	02:59	17:03	17:03	Duplicate
5W25520.D	07/26/17	03:44	17:48	17:48	(unrelated sample)
5W25522.D	07/26/17	05:19	19:23	19:23	(unrelated sample)
5W25523.D	07/26/17	06:05	20:09	20:09	(unrelated sample)

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JC48192
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample: V5W1007-BFB
Lab File ID: 5W25534.D
Instrument ID: GCMSSW
Injection Date: 07/26/17
Injection Time: 19:23

5.5.3

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	22253	14.5	Pass
75	30.0 - 66.0% of mass 95	64083	41.8	Pass
95	Base peak, 100% relative abundance	153408	100.0	Pass
96	5.0 - 9.0% of mass 95	10164	6.63	Pass
173	Less than 2.0% of mass 174	0	0.00	Pass
174	50.0 - 120.0% of mass 95	137104	89.4	Pass
175	4.0 - 9.0% of mass 174	10471	6.83	Pass
176	93.0 - 101.0% of mass 174	133256	86.9	Pass
177	5.0 - 9.0% of mass 176	8775	5.72	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1007-IC1007	5W25535.D	07/26/17	20:08	00:45	Initial cal 0.04
V5W1007-IC1007	5W25539.D	07/26/17	23:07	03:44	Initial cal 5
V5W1007-IC1007	5W25540.D	07/26/17	23:53	04:30	Initial cal 10
V5W1007-IC1007	5W25541.D	07/27/17	00:40	05:17	Initial cal 20
V5W1007-IC1007	5W25542.D	07/27/17	01:31	06:08	Initial cal 40
V5W1007-IC1007	5W25545.D	07/27/17	08:56	13:33	Initial cal 0.5
V5W1007-IC1007	5W25546.D	07/27/17	09:42	14:19	Initial cal 0.2
V5W1007-IC1007	5W25547.D	07/27/17	10:26	15:03	Initial cal 0.1
V5W1007-ICV1007	5W25548.D	07/27/17	11:11	15:48	Initial cal verification 10

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JC48192

Account: GCKSS GeoCore, Inc.

Project: Agra CCC/USDA

Sample: V5W1022-BFB

Lab File ID: 5W25923.D

Instrument ID: GCM55W

Injection Date: 08/10/17

Injection Time: 09:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	26000	15.5	Pass
75	30.0 - 66.0% of mass 95	73131	43.6	Pass
95	Base peak, 100% relative abundance	167552	100.0	Pass
96	5.0 - 9.0% of mass 95	10817	6.46	Pass
173	Less than 2.0% of mass 174	0	0.00	Pass
174	50.0 - 120.0% of mass 95	146923	87.7	Pass
175	4.0 - 9.0% of mass 174	10669	6.36	Pass
176	93.0 - 101.0% of mass 174	143381	85.6	Pass
177	5.0 - 9.0% of mass 176	9493	5.67	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1022-CC1007	5W25923.D	08/10/17	09:28	00:00	Continuing cal 10
V5W1022-B5	5W25924.D	08/10/17	10:31	01:03	Blank Spike
V5W1022-BSD	5W25925.D	08/10/17	11:17	01:49	Blank Spike Duplicate
V5W1022-MB	5W25927.D	08/10/17	13:03	03:35	Method Blank
V5W1022-SCC	5W25928.D	08/10/17	13:53	04:25	Summa Cleaning Certification
V5W1022-SCC	5W25929.D	08/10/17	14:45	05:17	Summa Cleaning Certification
ZZZZZZ	5W25930.D	08/10/17	15:32	06:04	(unrelated sample)
ZZZZZZ	5W25931.D	08/10/17	16:17	06:49	(unrelated sample)
ZZZZZZ	5W25932.D	08/10/17	17:02	07:34	(unrelated sample)
ZZZZZZ	5W25934.D	08/10/17	18:39	09:11	(unrelated sample)
ZZZZZZ	5W25935.D	08/10/17	19:32	10:04	(unrelated sample)
ZZZZZZ	5W25936.D	08/10/17	20:26	10:58	(unrelated sample)
JC48053-3	5W25937.D	08/10/17	21:20	11:52	(used for QC only; not part of job JC48192)
JC48053-3DUP	5W25938.D	08/10/17	22:14	12:46	Duplicate
ZZZZZZ	5W25939.D	08/10/17	23:14	13:46	(unrelated sample)
ZZZZZZ	5W25940.D	08/11/17	00:06	14:38	(unrelated sample)
ZZZZZZ	5W25941.D	08/11/17	01:05	15:37	(unrelated sample)
JC48192-1	5W25942.D	08/11/17	01:50	16:22	SVE-1
JC48192-2	5W25943.D	08/11/17	02:36	17:08	SVE-2
JC48192-3	5W25944.D	08/11/17	03:21	17:53	SVE-3
JC48192-4	5W25945.D	08/11/17	04:06	18:38	SVE-4
JC48192-5	5W25946.D	08/11/17	04:52	19:24	SVE-5
JC48192-6	5W25947.D	08/11/17	05:37	20:09	SVE MANIFOLD
V5W1022-SCC	5W25948.D	08/11/17	06:30	21:02	Summa Cleaning Certification

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JC48192

Account: GCKSS GeoCore, Inc.

Project: Agra CCC/USDA

Method: TO-15

Matrix: AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	SI
JC48192-1	5W25942.D	97
JC48192-2	5W25943.D	98
JC48192-3	5W25944.D	97
JC48192-4	5W25945.D	96
JC48192-5	5W25946.D	95
JC48192-6	5W25947.D	97
JC48053-3DUP	5W25938.D	107
V5W1006-SCC	5W25507.D	105
V5W1022-B5	5W25924.D	111
V5W1022-BSD	5W25925.D	107
V5W1022-MB	5W25927.D	97
V5W1006-B5	5W25502.D	112
V5W1006-BSD	5W25504.D	110
V5W1006-MB	5W25506.D	105

Surrogate Compounds

Recovery Limits

SI = 4-Bromofluorobenzene

65-128%

APPENDIX 2

FIELD NOTES

AND

SUPPORTING DOCUMENTATION

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CCC/USDA
 Facility Address: 671 Railroad Ave
 Agra, Kansas
 Consultant: GreenField Contractors, Inc.
 Reporting Period: 6/28/17 thru 8/1/17
 Days in Reporting Period: _____
 Field Sheet Revision Date: _____

PROJ. # 1491
 Inspector: DAVE GUL
 Inspection Date: 8/1/17
 Inspection Time: 12:50
 Electrical Meter Reading: 87327

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: _____
 Design Parameters for Air Sparge System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: 52042.6 Previous 52858.4 Present

Well ID	RDHE	Temp	Depth to	Water Level	Free Phase
GW-1	TOC	Elevation	Water (TOC)	Elevation	Prod. Elev.
GW-3	TOC	Elevation	Water (TOC)	Elevation	Prod. Thick.
GW-4	TOC	Elevation	Water (TOC)	Elevation	Prod. Thick.

SYSTEM DOWN TIME SUMMARY	
DATES	To
From	

REMEDATION SYSTEM MAINTENANCE RECORD	
Date of Changes	Description of Work Performed
	Performed by

K.O. Tank	Drained	K.O. Meter	Replaced	Cleaned
Filters SVE	Checked	Replaced	Checked	Cleaned
ASP Blower Grease	Added	Yes	No	No
Cleaned SVE lines	Yes	No	No	No
Cleaned Flowmeters	Yes	No	No	No
Used weedwater around trailer	Yes	No	No	No
Swept trailer	Yes	No	No	No
Sensaphone Surge Protector	Good	Bad	Good	Bad
Adjusted Air dilution:	From: 4.00 L/min	To: 4.00 L/min		
Vane Width:				
Check Quantity	Becker 3.60			

SVE Filter	Solberg	Need
Air Sparge Filter		

Former Agra CCC/USDA

Prof. # 1491

Operating Status:	Arrival On/Off	Departure On/Off	Pre/Post	Dilution Air	Flowrate	Sum of SVE Wells	O2	Readings	CO2	TPH (FID)
SVE UNIT	6:20	4:10	6:20	4:10	6:20	4:10	15.0	20.9	0	0

SVE WELL FIELD DATA

SVE WELL	Vac. @	Manifold	Direct Read	O2	Readings	CO2	TPH/Drager	Vac. @
SVE-1	8.1	50	50	20.9	0	0	0	5.6
SVE-2	9.2	50	50	20.9	0	0	0	5.8
SVE-3	12.3	50	50	20.9	0	0	0	7.1
SVE-4								
SVE-5								

SPARGE UNIT-FIELD DATA

Operating Status:	Arrival On/Off	Departure On/Off	Pressure	Flow Rate	Bled Off	Air Temp.	Post
SPARGE UNIT	16.0	17.8	40.6	12.5			

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @	Manifold	Pressure @	Direct Read	Flow Rate
AS-1	8.93	3.55	4.5		
AS-2	7.55	7.37	3.8		
AS-3	>10	>10	2.5		
AS-4			0.5		
AS-5			0.5		

SVE-1 7.8 50
 SVE-2 8.1 50
 SVE-4 11.5 50 20.9 0 6.7
 SVE-1 8.1 50
 SVE-2 8.4 50
 SVE-5 41.3 20.9 0 35.8

BROKEN WULT LID.

BROKEN FLOWMETER

BROKEN @ VOLT HEAD

BSA FLOW 70.2

Accutest Laboratories Southeast
Chain of Custody
 4405 Vineland Road, Suite C-15 Orlando, FL 32811
 TEL: 407-425-6700 • FAX: 407-425-0707
ACCUTEST.
 LABORATORIES

*If you do not know where the hour meters are located or how to read them, you make leave this space blank.

EQUIPMENT BUILDING LOG-IN SHEET

Site Address: Agre, Ks.
Project Name: Forme-Agre LLC/USAA
Project Code: R191

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum (in./Ft. H ₂ O)	Minus	Depth to Top of Screen	Length of Screen Exposed (Ft.)
SVE-1	$6w-1 + 6w-4 \div 2 = 41.95$	1.58		20	21.37
SVE-2		1.43		20	21.52
SVE-3		1.6		20	21.35
SVE-4				20	
SVE-5				20	

NOTE:
 1 PSI = 2.7 INCHES OF WATER
 1 INCH HG = 13.6 INCHES OF WATER
 Positive screen value equals length of screen exposed
 Negative screen value equals length of screen flooded

Measurements Collected By T. Dorek

Date Measurements Collected 6-28-17

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Top of Sparge Screen (ft)	Adjusted Minus SWL	Adjusted SWL	Calculation to Determine Amt. PSI Needed	Wellhead Pressure Needed to Overcome Water Column
AS-1	51.37		41.95	X 0.634	= 4.09
AS-2	58			X 0.634	= 6.97
AS-3	53.9			X 0.634	= 5.19
AS-4	58			X 0.634	= 6.97
AS-5	54.27			X 0.634	= 6.21

Measurements Collected By T. Dorek

Date Measurements Collected 6-28-17

Comments

150M# JV

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CCC/USDA
Facility Address: 671 Railroad Ave, Agra, Kansas
Consultant: GreenField Contractors, Inc.
Reporting Period: 4-30-17 thru 5-30-17
Days in Reporting Period: 30
Field Sheet Revision Date: 5-30-17

Operating Status: Arrival On/Off Departure On/Off
Pre KO Tank Vacuum (H2O) 59.1
Pre Post Filter Vacuum (H2O) 10.5
Cumulative Flowrate Sum of SVE Wells 190
O2 Readings (%) 20.9
TPH (Pb) Readings (ppm) 10

Operating Status: Arrival On/Off Departure On/Off
Pre KO Tank Vacuum (H2O) 59.1
Pre Post Filter Vacuum (H2O) 10.5
Cumulative Flowrate Sum of SVE Wells 190
O2 Readings (%) 20.9
TPH (Pb) Readings (ppm) 10

SVE UNIT	Vac @ Manifold (H2O)	Direct Read Flowrate (cfm)	O2 Readings (%)	TPH/TPHgrader Readings (ppm)	Vac @ Wellhead (H2O)
SVE-1	16.2	50	20.9	1.0	12.4
SVE-2	13.2	50	20.9	1.0	8.6
SVE-3	15.6	50	20.9	1.0	11.0
SVE-4					
SVE-5					

SPARGE UNIT FIELD DATA

SPARGE UNIT	Pressure (psi)	Flow Rate (cfm)	Bleed Off (%)	Pre Air Temp (deg F)	Post Air Temp (deg F)
	17.8	11.3	closed	109.0	

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psi)	Pressure @ Wellhead (psi)	Direct Read Flow Rate (cfm)
AS-1	3.77	3.44	5.0
AS-2	7.46	7.15	3.8
AS-3	10+	10+	2.5
AS-4			
AS-5			

Design Parameters for Vapor Extraction System:
Reporting Period Parameters:
Blower Operation:
Hour Meter Reading: 58609.3
Previous 59399.0
Present 58609.3

Design Parameters for Air Sparge System:
Reporting Period Parameters:
Blower Operation:
Hour Meter Reading: 50556.2
Previous 51345.9
Present 50556.2

WELL ID	WELL NO.	WELL TYPE	WELL DEPTH	WELL ELEVATION	WELL VOLUME	WELL PRESSURE	WELL TEMPERATURE
GW-1	41.41	41.41	41.41	41.41	41.41	41.41	41.41
GW-3	41.84	41.84	41.84	41.84	41.84	41.84	41.84
GW-4	42.32	42.32	42.32	42.32	42.32	42.32	42.32

SYSTEM DOWN TIME SUMMARY

DATES	From	To	Explanation for Down Time
			(Indicate Corrective Measures Taken)

REMEDATION SYSTEM MAINTENANCE RECORD

DATE OF CHANGES	DESCRIPTION OF WORK PERFORMED	PERFORMED BY
5-30-17	K.O. Tank Filters SVE Checked Replaced Cleaned A/S Blower Grease Added Cleaned SVE lines Yes Cleaned Flowmeters Yes Used weedeater around trailer Yes Sweep trailer Yes Sensaphone Surge Protector Good Adjusted Air dilution: From closed To closed	Tim Deal

Check Quantity: Beckers 3.60
Vane Width: 26 MM
AIR Sparge vane measurement minimum 26 MM

SVE Filter: Solvent: Need

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum Minus (In./Ft H ₂ O)	Depth to Top of Screen Minus	Length of Screen Exposed (Ft.) Equals
SVE-1	$6W-1 + 6W-4 = 41.87$	1.23	20	20.84
SVE-2		1.22	20	21.15
SVE-3		1.2	20	20.95
SVE-4			20	
SVE-5			20	

NOTE:
 1 PSI = 2.77 INCHES OF WATER
 1 INCH HG = 13.6 INCHES OF WATER
 Positive screen value equals length of screen exposed
 Negative screen value equals length of screen flooded

Measurements Collected By T. Deard
 Date Measurements Collected 5-30-17
 Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water Below TOC (Rim)	Plus / Minus Difference in TOC Elevation Between MW- and AS Well	Adjusted SWL Equals	Depth to Top of Sparge Screen (Ft)	Adjusted SWL Minus	Times	Calculation to Determine Amt. PSI Needed	Wellhead Pressure Needed to Overcome Water Column
AS-1			*	51.37	- 41.87	X	0.434	4.12
AS-2			*	59	-	X	0.434	7.0
AS-3			*	53.9	-	X	0.434	5.22
AS-4			*	59	-	X	0.434	7.0
AS-5			*	59.27	-	X	0.434	6.25

Measurements Collected By T. Deard
 Date Measurements Collected 5-30-17
 Comments

Supplement 2:

GreenField Report for Monthly OMM Event on August 24, 2017

August 28, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
First Monthly OMM Report of the Fifth Scope of OMM Services**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of field notes from the August 24, 2017 monthly OMM event conducted at the Agra CCC/USDA remedial site. The soil vapor extraction (SVE) system was operating at a cumulative airflow rate of 150 standard cubic feet per minute (scfm) and a vacuum of 63.2 inches of water. Operating parameters were collected with SVE-1 through 3 operating. The air sparge system was operating at a pressure of 16.0 psi and cumulative airflow rate of 9.8 scfm. Operating parameters were collected with AS-1 through 3 operating. Wellhead pressures ranged from 3.87 to greater than 10 psi. The ASP-4 well line is throttled off due to a break in the flow meter. A replacement flow meter is on order.

It has been noted that the SVE/AS-1 and SVE/AS-5 well pads have sunken below well casing levels. Surrounding soil appears to have lowered also. It is recommended to replace the well pads. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

Melisa McElwee
GreenField Contractors, Inc.

C: 1491 Report File

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CCC/USDA
 Facility Address: 871 Railroad Ave
 Agra, Kansas

Consultant: GreenField Contractors, Inc.
 Consultant Project Mgr: Tim Pace

Reporting Period: 8-21-17 thru 8-24-17

Days in Reporting Period: 4

Field Sheet Revision Date: 9/19/17

PROJ. # 1481

Inspector: Tim Pace

Inspection Date: 8-24-17

Inspection Time: 13:05

Electrical Meter Reading: 91941

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: 60911.5 Previous 61410.6 Present
 250 SCFM "H2O" 40 "H2O"
 150 SCFM "H2O" 13.2
 X Continuous Cycling
 60911.5 Previous 61410.6 Present

Reporting Parameters for Air Sparge System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: 53458.4 Previous 53457.6 Present
 25 SCFM 12 PSI
 9.8 SCFM 16.0 PSI
 X Continuous Cycling
 53458.4 Previous 53457.6 Present

GROUNDWATER ELEVATIONS									
Well No.	Water ID	Temp	Water ID	Temp	Water ID	Temp	Water ID	Temp	Water ID
GW-1	472449	47.50	472449	47.50	472449	47.50	472449	47.50	472449
GW-3	472449	47.50	472449	47.50	472449	47.50	472449	47.50	472449
GW-4	472449	47.50	472449	47.50	472449	47.50	472449	47.50	472449

SYSTEM DOWN TIME SUMMARY

Explaination for Down Time
 (Indicate Corrective Measures Taken)

REMEDATION SYSTEM MAINTENANCE RECORD

Date of Changes: 8-24-17

Description of Work Performed	Performed by
K.O. Tank	1. Dorch
Filters SVE	1. Dorch
ASP Blower Grease	1. Dorch
Cleaned SVE lines	1. Dorch
Cleaned Flowmeters	1. Dorch
Used weedeater around trailer	1. Dorch
Swept trailer	1. Dorch
Sensaphone Surge Protector	1. Dorch
Adjusted Air dilution	1. Dorch
Van Width	1. Dorch
AIR Sparge vane measurement minimum 26 MM	1. Dorch

Check, Quantity: Becker 3.60

Need

Need

Former Agra CCC/USDA

Proj. # 1481

Operating Status: Arrive On Off Departure On Off

SVE UNIT	Pro KO Tank	Vacuum (H2O)	Filter Vacuum (H2O)	Flowrate (cfm)	Cumulative Flowrate Sum of SVE Wells	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
SVE-1	63.2	-170.8	closed	15.0	20.9	20.9	20.9	20.9

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold (H2O)	Direct Read Flowrate (cfm) 2" line	O2 Readings (%)	CO2 Readings (%)	TPH/Drager Readings (ppm)	Vac. @ Wellhead (H2O)
SVE-1	7.2	50	20.9	20.9	20.9	20.9
SVE-2	10.0	50	20.9	20.9	20.9	20.9
SVE-3	12.1	50	20.9	20.9	20.9	20.9
SVE-4						
SVE-5						

SPARGE UNIT-FIELD DATA

Operating Status: Arrive On Off Departure On Off

SPARGE UNIT	Pressure (psi)	Flow Rate (cfm)	Bleed Off (%)	Pro Air Temp. (deg. F)	Post Air Temp. (deg. F)
AS-1	16.0	9.8	closed	122.0	—

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psi)	Pressure @ Wellhead (psi)	Direct Read Flow Rate (cfm)
AS-1	4.15	3.87	4.1
AS-2	2.47	2.32	3.0
AS-3	10.4	10.4	2.4
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum Minus (In./Ft. H2O)	Depth to Top of Screen Minus	Length of Screen Exposed (Ft.)
SVE-1	$600-1+600-4 = 1195$ 411.68	2.24	20	21.44
SVE-2		1.13	20	21.25
SVE-3		1.63	20	21.05
SVE-4			20	
SVE-5			20	

NOTE: 1 PSI = 2.77 INCHES OF WATER
1 INCH HG = 13.6 INCHES OF WATER
Positive screen value equals length of screen exposed
Negative screen value equals length of screen flooded

Measurements Collected By J. Bonds
Date Measurements Collected 8-24-17
Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TOC Feet	Plus / Minus	Difference in TOC Elevation Between MWL and AS Well	Adjusted SWL	Depth to Top of Sparge Screen (Ft)	Adjusted SWL Minus	Times	Calculation to Determine Amt. PSI Needed	Wellhead Pressure Needed to Overcome Water Column
AS-1		-			51.37	- 411.68	X	0.434	41.21
AS-2		-			50	-	X	0.434	7.08
AS-3		-			53.9	-	X	0.434	5.20
AS-4		-			50	-	X	0.434	7.08
AS-5		-			50.27	-	X	0.434	6.33

Measurements Collected By J. Bonds

Date Measurements Collected 8-24-17

Comments

Supplement 3:

GreenField Report for Monthly OMM Event on September 28, 2017

October 5, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
Second Monthly OMM Report of the Fifth Scope of OMM Services**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of field notes from the September 28, 2017 monthly OMM event conducted at the Agra CCC/USDA remedial site. The soil vapor extraction (SVE) system was operating at a cumulative airflow rate of 150 standard cubic feet per minute (scfm) and a vacuum of 64.0 inches of water. Operating parameters were collected with SVE-1 through 3 operating. The air sparge system was operating at a pressure of 14.5 psi and cumulative airflow rate of 9.0 scfm. Operating parameters were collected with AS-1 through 3 operating. Wellhead pressures ranged from 3.87 to greater than 10 psi. The ASP-4 well line is throttled on after the replacement of the flow meter. The ASP vanes and filters were replaced at this event.

It has been noted that the SVE/AS-1 and SVE/AS-5 well pads have sunken below well casing levels. Surrounding soil appears to have lowered also. It is recommended to replace the well pads. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

Melisa McElwee
GreenField Contractors, Inc.

C: 1491 Report File

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name:

Facility Address:

Consultant:

Consultant Project Mgr:

Reporting Period:

Days in Reporting Period:

Field Sheet Revision Date:

PROJ. #

Inspector:

Inspection Date:

Inspection Time:

Electrical Meter Reading:

GROUNDWATER ELEVATIONS

Design Parameters for Vapor Extraction System:

Reporting Period Parameters:

Blower Operation:

Hour Meter Reading:

Design Parameters for Air Sparge System:

Reporting Period Parameters:

Blower Operation:

Hour Meter Reading:

GROUNDWATER ELEVATIONS

Well ID	WCH	Time	Depth to	Water Level	Free Phase	Prod. Thick.
GW-1	41.31	41.31	41.31	41.31	Prod. Blw.	D.O.
GW-3	41.32	41.32	41.32	41.32		
GW-4	41.36	41.36	41.36	41.36		

SYSTEM DOWN TIME SUMMARY

DATES	To	Explanation for Down Time
From	9-28-17	Repaired AS-1 at manifold + turned on

REMEDATION SYSTEM MAINTENANCE RECORD

Date of Changes	Description of Work Performed	Performed by
9-28-17	K.O. Tank Drained	Supply
	Filters SVE Replaced	
	ASP Blower Grease Added	
	Cleaned SVE lines	
	Cleaned Flowmeters	
	Used weedster around trailer	
	Swept trailer	
	Sensaphone Surge Protector	
	Adjusted Air dilution	
	Check Quarterly Vane Width	
	Becker 3.60	
	AIR Sparge vane measurement minimum 26 MM	

SVE Filter	Sobern	Need
Air Sparge Filter		

Repaired AS-1 + 5 at well head
Replaced SVE-1 Test Cap (broken)
Replaced AS Vane at Filters
SVE/AS-1 well head broken unable to put lid on
SVE/AS-5 is broken
Took pictures

Former Agra CCC/USDA

Proj. # 1491

T. D. 9-28-17

Operating Status: Arrival On / Off Departure On / Off

SVE UNIT	Pro KO Tank Vacuum (H ₂ O)	Flowrate (cfm)	Cumulative Sum of SVE Wells	O ₂ Readings (%)	CO ₂ Readings (%)	TPH (PID) Readings (ppm)
	14.0	1716	closed	150	20.9	1.0

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold (H ₂ O)	Direct Read Flowrate (cfm) 2" line	O ₂ Readings (%)	CO ₂ Readings (%)	TPH/Druger Readings (ppm)	Vac. @ Wellhead (H ₂ O)
SVE-1	7.0	50	20.9	1.0	1.0	2.7
SVE-2	9.1	50	20.9	1.0	1.0	4.5
SVE-3	10.1	50	20.9	1.0	1.0	7.2
SVE-4						
SVE-5						

SPARGE UNIT FIELD DATA

SPARGE UNIT	Pressure (psi)	Flow Rate (cfm)	Bleed Off (%)	Pro Air Temp. (deg. F)	Post Air Temp. (deg. F)
	14.5	9.0	closed	109°	

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psi)	Direct Read Flow Rate (cfm)
AS-1	4.16	3.37
AS-2	7.50	7.33
AS-3	10+	10+
AS-4		
AS-5		

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum Minus (In./Ft H2O)	Depth to Top of Screen Minus	Length of Screen Exposed (Ft.) Equals
SVE-1	603-1 + 41.34 = 725	.23	20	21.11
SVE-2		.38	20	20.96
SVE-3		.60	20	20.74
SVE-4			20	
SVE-5			20	

NOTE: 1 PSI = 2.77 INCHES OF WATER
1 INCH HG = 13.6 INCHES OF WATER
Positive screen value equals length of screen exposed
Negative screen value equals length of screen flooded

Measurements Collected By: T. Borck

Date Measurements Collected 9-28-15

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TOC Feet	Plus / Minus	Difference in TOC Elevation Between MHV and AS Well	Adjusted Equals SWL	Depth to Top of Sparge Screen (PD)	Adjusted Minus SWL	Times	Calculation to Determine Air PSI Needed	Wellhead Pressure Below Air Column Equals
AS-1		-			51.37	- 41.34	X	0.634	- 41.35
AS-2		-			59	-	X	0.634	- 7.23
AS-3		-			53.9	-	X	0.634	- 5.45
AS-4		-			59	-	X	0.634	- 7.23
AS-5		-			58.27	-	X	0.634	- 6.48

Measurements Collected By: T. Borck

Date Measurements Collected 9-28-17

Comments

Supplement 4:

**TestAmerica Data for Argonne's Twice-Yearly Soil Gas Sampling
on October 17, 2017**

ANALYTICAL REPORT

Job Number: 200-40522-1

SDG Number: 200-40522-1

Job Description: Agra, KS (200-40522)

Contract Number: 6E-30541

For:

Argonne National Laboratory

9700 South Cass Avenue

Building 203

Office B-141

Argonne, IL 60439

Attention: Ms. Esther Bowen

Approved for release.
Kathryn A Kelly
Project Manager I
10/26/2017 2:24 PM

Kathryn A Kelly, Project Manager I
30 Community Drive, South Burlington, VT, 05403
kathryn.kelly@testamericainc.com
10/26/2017

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

Table of Contents

Cover Title Page	1
Data Summaries	4
Definitions	4
Case Narrative	5
Detection Summary	6
Client Sample Results	10
Default Detection Limits	36
QC Sample Results	39
QC Association	46
Chronicle	47
Certification Summary	49
Method Summary	50
Sample Summary	51
Reagent Traceability	52
Organic Sample Data	125
Air - GC/MS VOA	125
Method TO15	125
Method TO15 QC Summary	126
Method TO15 Sample Data	133
Standards Data	181
Method TO15 ICAL Data	181
Method TO15 CCAL Data	191
Raw QC Data	197
Method TO15 Blank Data	197
Method TO15 LCS/LCSD Data	203
Method TO15 Run Logs	206

Table of Contents

Shipping and Receiving Documents	208
Client Chain of Custody	209
Sample Receipt Checklist	211

Definitions/Glossary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Argonne National Laboratory

Project: Agra, KS (200-40522)

Report Number: 200-40522-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/19/2017; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples AGSG1S-G-39878 (200-40522-1), AGSG1D-G-39879 (200-40522-2), AGSG2S-G-39880 (200-40522-3), AGSG2D-G-39881 (200-40522-4), AGSG3S-G-39882 (200-40522-5), AGSG3D-G-39883 (200-40522-6), AGSG2DDUP-G-39884 (200-40522-7) and AGBKGD-G-39885 (200-40522-8) were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 10/24/2017.

Samples AGSG1S-G-39878 (200-40522-1)[10X], AGSG1D-G-39879 (200-40522-2)[10X], AGSG2S-G-39880 (200-40522-3)[10X], AGSG2D-G-39881 (200-40522-4)[10X], AGSG3S-G-39882 (200-40522-5)[10X], AGSG3D-G-39883 (200-40522-6)[10X], AGSG2DDUP-G-39884 (200-40522-7)[10X] and AGBKGD-G-39885 (200-40522-8)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG1S-G-39878

Lab Sample ID: 200-40522-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	12		5.0	1.6	ppb v/v	10		TO-15	Total/NA
n-Butane	19		5.0	0.46	ppb v/v	10		TO-15	Total/NA
Acetone	120		50	13	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	35		5.0	0.28	ppb v/v	10		TO-15	Total/NA
3-Chloropropene	0.85	J	5.0	0.63	ppb v/v	10		TO-15	Total/NA
n-Hexane	2.4		2.0	0.46	ppb v/v	10		TO-15	Total/NA
Tetrahydrofuran	3900	E	50	12	ppb v/v	10		TO-15	Total/NA
Carbon tetrachloride	0.30	J	2.0	0.11	ppb v/v	10		TO-15	Total/NA
Benzene	39		2.0	0.28	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethane	0.83	J	2.0	0.34	ppb v/v	10		TO-15	Total/NA
Toluene	1.2	J	2.0	0.35	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	0.45	J	2.0	0.34	ppb v/v	10		TO-15	Total/NA
Cumene	9.3		2.0	0.39	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	24		10	3.3	ug/m3	10		TO-15	Total/NA
n-Butane	45		12	1.1	ug/m3	10		TO-15	Total/NA
Acetone	280		120	31	ug/m3	10		TO-15	Total/NA
Carbon disulfide	110		16	0.87	ug/m3	10		TO-15	Total/NA
3-Chloropropene	2.7	J	16	2.0	ug/m3	10		TO-15	Total/NA
n-Hexane	8.4		7.0	1.6	ug/m3	10		TO-15	Total/NA
Tetrahydrofuran	12000	E	150	35	ug/m3	10		TO-15	Total/NA
Carbon tetrachloride	1.9	J	13	0.69	ug/m3	10		TO-15	Total/NA
Benzene	130		6.4	0.89	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethane	3.3	J	8.1	1.4	ug/m3	10		TO-15	Total/NA
Toluene	4.5	J	7.5	1.3	ug/m3	10		TO-15	Total/NA
Ethylbenzene	2.0	J	8.7	1.5	ug/m3	10		TO-15	Total/NA
Cumene	46		9.8	1.9	ug/m3	10		TO-15	Total/NA

Client Sample ID: AGSG1D-G-39879

Lab Sample ID: 200-40522-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	11		5.0	1.6	ppb v/v	10		TO-15	Total/NA
n-Butane	31		5.0	0.46	ppb v/v	10		TO-15	Total/NA
1,3-Butadiene	0.92	J	2.0	0.37	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	79		5.0	0.28	ppb v/v	10		TO-15	Total/NA
3-Chloropropene	3.2	J	5.0	0.63	ppb v/v	10		TO-15	Total/NA
n-Hexane	4.8		2.0	0.46	ppb v/v	10		TO-15	Total/NA
Tetrahydrofuran	580	E	50	12	ppb v/v	10		TO-15	Total/NA
Carbon tetrachloride	0.58	J	2.0	0.11	ppb v/v	10		TO-15	Total/NA
Benzene	68		2.0	0.28	ppb v/v	10		TO-15	Total/NA
Toluene	1.4	J	2.0	0.35	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	0.45	J	2.0	0.34	ppb v/v	10		TO-15	Total/NA
Cumene	5.1		2.0	0.39	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	23		10	3.3	ug/m3	10		TO-15	Total/NA
n-Butane	73		12	1.1	ug/m3	10		TO-15	Total/NA
1,3-Butadiene	2.0	J	4.4	0.82	ug/m3	10		TO-15	Total/NA
Carbon disulfide	250		16	0.87	ug/m3	10		TO-15	Total/NA
3-Chloropropene	10	J	16	2.0	ug/m3	10		TO-15	Total/NA
n-Hexane	17		7.0	1.6	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG1D-G-39879 (Continued)

Lab Sample ID: 200-40522-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrahydrofuran	1700	E	150	35	ug/m3	10		TO-15	Total/NA
Carbon tetrachloride	3.6	J	13	0.69	ug/m3	10		TO-15	Total/NA
Benzene	220		6.4	0.89	ug/m3	10		TO-15	Total/NA
Toluene	5.2	J	7.5	1.3	ug/m3	10		TO-15	Total/NA
Ethylbenzene	1.9	J	8.7	1.5	ug/m3	10		TO-15	Total/NA
Cumene	25		9.8	1.9	ug/m3	10		TO-15	Total/NA

Client Sample ID: AGSG2S-G-39880

Lab Sample ID: 200-40522-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	5.9		5.0	1.6	ppb v/v	10		TO-15	Total/NA
n-Butane	5.1		5.0	0.46	ppb v/v	10		TO-15	Total/NA
Acetone	120		50	13	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	13		5.0	0.28	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone	42		5.0	1.1	ppb v/v	10		TO-15	Total/NA
Tetrahydrofuran	400		50	12	ppb v/v	10		TO-15	Total/NA
Benzene	14		2.0	0.28	ppb v/v	10		TO-15	Total/NA
Toluene	0.53	J	2.0	0.35	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	0.36	J	2.0	0.34	ppb v/v	10		TO-15	Total/NA
Cumene	8.7		2.0	0.39	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	12		10	3.3	ug/m3	10		TO-15	Total/NA
n-Butane	12		12	1.1	ug/m3	10		TO-15	Total/NA
Acetone	290		120	31	ug/m3	10		TO-15	Total/NA
Carbon disulfide	40		16	0.87	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone	120		15	3.2	ug/m3	10		TO-15	Total/NA
Tetrahydrofuran	1200		150	35	ug/m3	10		TO-15	Total/NA
Benzene	43		6.4	0.89	ug/m3	10		TO-15	Total/NA
Toluene	2.0	J	7.5	1.3	ug/m3	10		TO-15	Total/NA
Ethylbenzene	1.6	J	8.7	1.5	ug/m3	10		TO-15	Total/NA
Cumene	43		9.8	1.9	ug/m3	10		TO-15	Total/NA

Client Sample ID: AGSG2D-G-39881

Lab Sample ID: 200-40522-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	56		50	13	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone	11		5.0	1.1	ppb v/v	10		TO-15	Total/NA
Benzene	3.8		2.0	0.28	ppb v/v	10		TO-15	Total/NA
Toluene	0.38	J	2.0	0.35	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	0.34	J	2.0	0.34	ppb v/v	10		TO-15	Total/NA
Cumene	2.0		2.0	0.39	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130		120	31	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone	34		15	3.2	ug/m3	10		TO-15	Total/NA
Benzene	12		6.4	0.89	ug/m3	10		TO-15	Total/NA
Toluene	1.4	J	7.5	1.3	ug/m3	10		TO-15	Total/NA
Ethylbenzene	1.5	J	8.7	1.5	ug/m3	10		TO-15	Total/NA
Cumene	10		9.8	1.9	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG3S-G-39882

Lab Sample ID: 200-40522-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	8.7		5.0	1.6	ppb v/v	10		TO-15	Total/NA
n-Butane	18		5.0	0.46	ppb v/v	10		TO-15	Total/NA
Acetone	98		50	13	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	36		5.0	0.28	ppb v/v	10		TO-15	Total/NA
3-Chloropropene	1.6	J	5.0	0.63	ppb v/v	10		TO-15	Total/NA
n-Hexane	2.4		2.0	0.46	ppb v/v	10		TO-15	Total/NA
Tetrahydrofuran	1500	E	50	12	ppb v/v	10		TO-15	Total/NA
Benzene	21		2.0	0.28	ppb v/v	10		TO-15	Total/NA
Cumene	4.9		2.0	0.39	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	18		10	3.3	ug/m3	10		TO-15	Total/NA
n-Butane	44		12	1.1	ug/m3	10		TO-15	Total/NA
Acetone	230		120	31	ug/m3	10		TO-15	Total/NA
Carbon disulfide	110		16	0.87	ug/m3	10		TO-15	Total/NA
3-Chloropropene	5.1	J	16	2.0	ug/m3	10		TO-15	Total/NA
n-Hexane	8.6		7.0	1.6	ug/m3	10		TO-15	Total/NA
Tetrahydrofuran	4400	E	150	35	ug/m3	10		TO-15	Total/NA
Benzene	68		6.4	0.89	ug/m3	10		TO-15	Total/NA
Cumene	24		9.8	1.9	ug/m3	10		TO-15	Total/NA

Client Sample ID: AGSG3D-G-39883

Lab Sample ID: 200-40522-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	44		5.0	1.6	ppb v/v	10		TO-15	Total/NA
n-Butane	32		5.0	0.46	ppb v/v	10		TO-15	Total/NA
Chloroethane	3.7	J	5.0	1.3	ppb v/v	10		TO-15	Total/NA
Acetone	100		50	13	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	5.5	J	50	1.3	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	140		5.0	0.28	ppb v/v	10		TO-15	Total/NA
tert-Butyl alcohol	22	J	50	17	ppb v/v	10		TO-15	Total/NA
n-Hexane	0.83	J	2.0	0.46	ppb v/v	10		TO-15	Total/NA
Tetrahydrofuran	4600	E	50	12	ppb v/v	10		TO-15	Total/NA
Carbon tetrachloride	0.96	J	2.0	0.11	ppb v/v	10		TO-15	Total/NA
2,2,4-Trimethylpentane	2.6		2.0	0.43	ppb v/v	10		TO-15	Total/NA
Benzene	100		2.0	0.28	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethane	2.2		2.0	0.34	ppb v/v	10		TO-15	Total/NA
Toluene	91		2.0	0.35	ppb v/v	10		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	2.3	J	5.0	0.86	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	0.61	J	2.0	0.34	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	1.3	J	5.0	0.77	ppb v/v	10		TO-15	Total/NA
Xylene, o-	0.64	J	2.0	0.40	ppb v/v	10		TO-15	Total/NA
Cumene	7.0		2.0	0.39	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	90		10	3.3	ug/m3	10		TO-15	Total/NA
n-Butane	76		12	1.1	ug/m3	10		TO-15	Total/NA
Chloroethane	9.7	J	13	3.4	ug/m3	10		TO-15	Total/NA
Acetone	240		120	31	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	13	J	120	3.2	ug/m3	10		TO-15	Total/NA
Carbon disulfide	430		16	0.87	ug/m3	10		TO-15	Total/NA
tert-Butyl alcohol	67	J	150	52	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG3D-G-39883 (Continued)

Lab Sample ID: 200-40522-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Hexane	2.9	J	7.0	1.6	ug/m3	10		TO-15	Total/NA
Tetrahydrofuran	14000	E	150	35	ug/m3	10		TO-15	Total/NA
Carbon tetrachloride	6.0	J	13	0.69	ug/m3	10		TO-15	Total/NA
2,2,4-Trimethylpentane	12		9.3	2.0	ug/m3	10		TO-15	Total/NA
Benzene	320		6.4	0.89	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethane	8.9		8.1	1.4	ug/m3	10		TO-15	Total/NA
Toluene	340		7.5	1.3	ug/m3	10		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	9.4	J	20	3.5	ug/m3	10		TO-15	Total/NA
Ethylbenzene	2.6	J	8.7	1.5	ug/m3	10		TO-15	Total/NA
m,p-Xylene	5.5	J	22	3.3	ug/m3	10		TO-15	Total/NA
Xylene, o-	2.8	J	8.7	1.7	ug/m3	10		TO-15	Total/NA
Cumene	34		9.8	1.9	ug/m3	10		TO-15	Total/NA

Client Sample ID: AGSG2DDUP-G-39884

Lab Sample ID: 200-40522-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J	50	13	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone	7.6		5.0	1.1	ppb v/v	10		TO-15	Total/NA
Tetrahydrofuran	29	J	50	12	ppb v/v	10		TO-15	Total/NA
Benzene	0.72	J	2.0	0.28	ppb v/v	10		TO-15	Total/NA
Trichloroethene	0.32	J	2.0	0.091	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	34	J	120	31	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone	22		15	3.2	ug/m3	10		TO-15	Total/NA
Tetrahydrofuran	84	J	150	35	ug/m3	10		TO-15	Total/NA
Benzene	2.3	J	6.4	0.89	ug/m3	10		TO-15	Total/NA
Trichloroethene	1.7	J	11	0.49	ug/m3	10		TO-15	Total/NA

Client Sample ID: AGBKGD-G-39885

Lab Sample ID: 200-40522-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	58		50	13	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone	17		5.0	1.1	ppb v/v	10		TO-15	Total/NA
Tetrahydrofuran	32	J	50	12	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	140		120	31	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone	50		15	3.2	ug/m3	10		TO-15	Total/NA
Tetrahydrofuran	93	J	150	35	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG1S-G-39878

Lab Sample ID: 200-40522-1

Date Collected: 10/17/17 17:35

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.47	ppb v/v			10/24/17 16:37	10
Freon 22	5.0	U	5.0	2.0	ppb v/v			10/24/17 16:37	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.41	ppb v/v			10/24/17 16:37	10
Chloromethane	12		5.0	1.6	ppb v/v			10/24/17 16:37	10
n-Butane	19		5.0	0.46	ppb v/v			10/24/17 16:37	10
Vinyl chloride	2.0	U	2.0	0.18	ppb v/v			10/24/17 16:37	10
1,3-Butadiene	2.0	U	2.0	0.37	ppb v/v			10/24/17 16:37	10
Bromomethane	2.0	U	2.0	0.36	ppb v/v			10/24/17 16:37	10
Chloroethane	5.0	U	5.0	1.3	ppb v/v			10/24/17 16:37	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.22	ppb v/v			10/24/17 16:37	10
Trichlorofluoromethane	2.0	U	2.0	0.31	ppb v/v			10/24/17 16:37	10
Freon TF	2.0	U	2.0	0.27	ppb v/v			10/24/17 16:37	10
1,1-Dichloroethene	2.0	U	2.0	0.35	ppb v/v			10/24/17 16:37	10
Acetone	120		50	13	ppb v/v			10/24/17 16:37	10
Isopropyl alcohol	50	U	50	1.3	ppb v/v			10/24/17 16:37	10
Carbon disulfide	35		5.0	0.28	ppb v/v			10/24/17 16:37	10
3-Chloropropene	0.85	J	5.0	0.63	ppb v/v			10/24/17 16:37	10
Methylene Chloride	5.0	U	5.0	0.68	ppb v/v			10/24/17 16:37	10
tert-Butyl alcohol	50	U	50	17	ppb v/v			10/24/17 16:37	10
Methyl tert-butyl ether	2.0	U	2.0	0.41	ppb v/v			10/24/17 16:37	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.50	ppb v/v			10/24/17 16:37	10
n-Hexane	2.4		2.0	0.46	ppb v/v			10/24/17 16:37	10
1,1-Dichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 16:37	10
Methyl Ethyl Ketone	5.0	U	5.0	1.1	ppb v/v			10/24/17 16:37	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.29	ppb v/v			10/24/17 16:37	10
Chloroform	2.0	U	2.0	0.25	ppb v/v			10/24/17 16:37	10
Tetrahydrofuran	3900	E	50	12	ppb v/v			10/24/17 16:37	10
1,1,1-Trichloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 16:37	10
Cyclohexane	2.0	U	2.0	0.45	ppb v/v			10/24/17 16:37	10
Carbon tetrachloride	0.30	J	2.0	0.11	ppb v/v			10/24/17 16:37	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.43	ppb v/v			10/24/17 16:37	10
Benzene	39		2.0	0.28	ppb v/v			10/24/17 16:37	10
1,2-Dichloroethane	0.83	J	2.0	0.34	ppb v/v			10/24/17 16:37	10
n-Heptane	2.0	U	2.0	0.68	ppb v/v			10/24/17 16:37	10
Trichloroethene	2.0	U	2.0	0.091	ppb v/v			10/24/17 16:37	10
Methyl methacrylate	5.0	U	5.0	1.1	ppb v/v			10/24/17 16:37	10
1,2-Dichloropropane	2.0	U	2.0	0.35	ppb v/v			10/24/17 16:37	10
1,4-Dioxane	50	U	50	7.6	ppb v/v			10/24/17 16:37	10
Bromodichloromethane	2.0	U	2.0	0.59	ppb v/v			10/24/17 16:37	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.36	ppb v/v			10/24/17 16:37	10
methyl isobutyl ketone	5.0	U	5.0	0.65	ppb v/v			10/24/17 16:37	10
Toluene	1.2	J	2.0	0.35	ppb v/v			10/24/17 16:37	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.38	ppb v/v			10/24/17 16:37	10
1,1,2-Trichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 16:37	10
Tetrachloroethene	2.0	U	2.0	0.098	ppb v/v			10/24/17 16:37	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	0.86	ppb v/v			10/24/17 16:37	10
Dibromochloromethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 16:37	10
1,2-Dibromoethane	2.0	U	2.0	0.23	ppb v/v			10/24/17 16:37	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG1S-G-39878

Lab Sample ID: 200-40522-1

Date Collected: 10/17/17 17:35

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	2.0	U	2.0	0.25	ppb v/v			10/24/17 16:37	10
Ethylbenzene	0.45	J	2.0	0.34	ppb v/v			10/24/17 16:37	10
m,p-Xylene	5.0	U	5.0	0.77	ppb v/v			10/24/17 16:37	10
Xylene, o-	2.0	U	2.0	0.40	ppb v/v			10/24/17 16:37	10
Styrene	2.0	U	2.0	0.35	ppb v/v			10/24/17 16:37	10
Bromoform	2.0	U	2.0	0.35	ppb v/v			10/24/17 16:37	10
Cumene	9.3		2.0	0.39	ppb v/v			10/24/17 16:37	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 16:37	10
n-Propylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 16:37	10
4-Ethyltoluene	2.0	U	2.0	0.40	ppb v/v			10/24/17 16:37	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 16:37	10
2-Chlorotoluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 16:37	10
tert-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 16:37	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.57	ppb v/v			10/24/17 16:37	10
sec-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 16:37	10
4-Isopropyltoluene	2.0	U	2.0	0.52	ppb v/v			10/24/17 16:37	10
1,3-Dichlorobenzene	2.0	U	2.0	0.50	ppb v/v			10/24/17 16:37	10
1,4-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			10/24/17 16:37	10
Benzyl chloride	2.0	U	2.0	0.67	ppb v/v			10/24/17 16:37	10
n-Butylbenzene	2.0	U	2.0	0.68	ppb v/v			10/24/17 16:37	10
1,2-Dichlorobenzene	2.0	U	2.0	0.45	ppb v/v			10/24/17 16:37	10
1,2,4-Trichlorobenzene	5.0	U	5.0	1.9	ppb v/v			10/24/17 16:37	10
Hexachlorobutadiene	2.0	U	2.0	0.64	ppb v/v			10/24/17 16:37	10
Naphthalene	5.0	U	5.0	1.0	ppb v/v			10/24/17 16:37	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	2.3	ug/m3			10/24/17 16:37	10
Freon 22	18	U	18	7.1	ug/m3			10/24/17 16:37	10
1,2-Dichlorotetrafluoroethane	14	U	14	2.9	ug/m3			10/24/17 16:37	10
Chloromethane	24		10	3.3	ug/m3			10/24/17 16:37	10
n-Butane	45		12	1.1	ug/m3			10/24/17 16:37	10
Vinyl chloride	5.1	U	5.1	0.46	ug/m3			10/24/17 16:37	10
1,3-Butadiene	4.4	U	4.4	0.82	ug/m3			10/24/17 16:37	10
Bromomethane	7.8	U	7.8	1.4	ug/m3			10/24/17 16:37	10
Chloroethane	13	U	13	3.4	ug/m3			10/24/17 16:37	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.96	ug/m3			10/24/17 16:37	10
Trichlorofluoromethane	11	U	11	1.7	ug/m3			10/24/17 16:37	10
Freon TF	15	U	15	2.1	ug/m3			10/24/17 16:37	10
1,1-Dichloroethene	7.9	U	7.9	1.4	ug/m3			10/24/17 16:37	10
Acetone	280		120	31	ug/m3			10/24/17 16:37	10
Isopropyl alcohol	120	U	120	3.2	ug/m3			10/24/17 16:37	10
Carbon disulfide	110		16	0.87	ug/m3			10/24/17 16:37	10
3-Chloropropene	2.7	J	16	2.0	ug/m3			10/24/17 16:37	10
Methylene Chloride	17	U	17	2.4	ug/m3			10/24/17 16:37	10
tert-Butyl alcohol	150	U	150	52	ug/m3			10/24/17 16:37	10
Methyl tert-butyl ether	7.2	U	7.2	1.5	ug/m3			10/24/17 16:37	10
trans-1,2-Dichloroethene	7.9	U	7.9	2.0	ug/m3			10/24/17 16:37	10
n-Hexane	8.4		7.0	1.6	ug/m3			10/24/17 16:37	10
1,1-Dichloroethane	8.1	U	8.1	0.69	ug/m3			10/24/17 16:37	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG1S-G-39878

Lab Sample ID: 200-40522-1

Date Collected: 10/17/17 17:35

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	15	U	15	3.2	ug/m3			10/24/17 16:37	10
cis-1,2-Dichloroethene	7.9	U	7.9	1.1	ug/m3			10/24/17 16:37	10
Chloroform	9.8	U	9.8	1.2	ug/m3			10/24/17 16:37	10
Tetrahydrofuran	12000	E	150	35	ug/m3			10/24/17 16:37	10
1,1,1-Trichloroethane	11	U	11	1.4	ug/m3			10/24/17 16:37	10
Cyclohexane	6.9	U	6.9	1.5	ug/m3			10/24/17 16:37	10
Carbon tetrachloride	1.9	J	13	0.69	ug/m3			10/24/17 16:37	10
2,2,4-Trimethylpentane	9.3	U	9.3	2.0	ug/m3			10/24/17 16:37	10
Benzene	130		6.4	0.89	ug/m3			10/24/17 16:37	10
1,2-Dichloroethane	3.3	J	8.1	1.4	ug/m3			10/24/17 16:37	10
n-Heptane	8.2	U	8.2	2.8	ug/m3			10/24/17 16:37	10
Trichloroethene	11	U	11	0.49	ug/m3			10/24/17 16:37	10
Methyl methacrylate	20	U	20	4.5	ug/m3			10/24/17 16:37	10
1,2-Dichloropropane	9.2	U	9.2	1.6	ug/m3			10/24/17 16:37	10
1,4-Dioxane	180	U	180	27	ug/m3			10/24/17 16:37	10
Bromodichloromethane	13	U	13	4.0	ug/m3			10/24/17 16:37	10
cis-1,3-Dichloropropene	9.1	U	9.1	1.6	ug/m3			10/24/17 16:37	10
methyl isobutyl ketone	20	U	20	2.7	ug/m3			10/24/17 16:37	10
Toluene	4.5	J	7.5	1.3	ug/m3			10/24/17 16:37	10
trans-1,3-Dichloropropene	9.1	U	9.1	1.7	ug/m3			10/24/17 16:37	10
1,1,2-Trichloroethane	11	U	11	0.93	ug/m3			10/24/17 16:37	10
Tetrachloroethene	14	U	14	0.66	ug/m3			10/24/17 16:37	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	3.5	ug/m3			10/24/17 16:37	10
Dibromochloromethane	17	U	17	1.4	ug/m3			10/24/17 16:37	10
1,2-Dibromoethane	15	U	15	1.8	ug/m3			10/24/17 16:37	10
Chlorobenzene	9.2	U	9.2	1.2	ug/m3			10/24/17 16:37	10
Ethylbenzene	2.0	J	8.7	1.5	ug/m3			10/24/17 16:37	10
m,p-Xylene	22	U	22	3.3	ug/m3			10/24/17 16:37	10
Xylene, o-	8.7	U	8.7	1.7	ug/m3			10/24/17 16:37	10
Styrene	8.5	U	8.5	1.5	ug/m3			10/24/17 16:37	10
Bromoform	21	U	21	3.6	ug/m3			10/24/17 16:37	10
Cumene	46		9.8	1.9	ug/m3			10/24/17 16:37	10
1,1,2,2-Tetrachloroethane	14	U	14	1.8	ug/m3			10/24/17 16:37	10
n-Propylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 16:37	10
4-Ethyltoluene	9.8	U	9.8	2.0	ug/m3			10/24/17 16:37	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 16:37	10
2-Chlorotoluene	10	U	10	1.8	ug/m3			10/24/17 16:37	10
tert-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 16:37	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.8	ug/m3			10/24/17 16:37	10
sec-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 16:37	10
4-Isopropyltoluene	11	U	11	2.9	ug/m3			10/24/17 16:37	10
1,3-Dichlorobenzene	12	U	12	3.0	ug/m3			10/24/17 16:37	10
1,4-Dichlorobenzene	12	U	12	3.8	ug/m3			10/24/17 16:37	10
Benzyl chloride	10	U	10	3.5	ug/m3			10/24/17 16:37	10
n-Butylbenzene	11	U	11	3.7	ug/m3			10/24/17 16:37	10
1,2-Dichlorobenzene	12	U	12	2.7	ug/m3			10/24/17 16:37	10
1,2,4-Trichlorobenzene	37	U	37	14	ug/m3			10/24/17 16:37	10
Hexachlorobutadiene	21	U	21	6.8	ug/m3			10/24/17 16:37	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG1S-G-39878

Lab Sample ID: 200-40522-1

Date Collected: 10/17/17 17:35

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	26	U	26	5.2	ug/m3			10/24/17 16:37	10

Client Sample ID: AGSG1D-G-39879

Lab Sample ID: 200-40522-2

Date Collected: 10/17/17 17:36

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.47	ppb v/v			10/24/17 17:30	10
Freon 22	5.0	U	5.0	2.0	ppb v/v			10/24/17 17:30	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.41	ppb v/v			10/24/17 17:30	10
Chloromethane	11		5.0	1.6	ppb v/v			10/24/17 17:30	10
n-Butane	31		5.0	0.46	ppb v/v			10/24/17 17:30	10
Vinyl chloride	2.0	U	2.0	0.18	ppb v/v			10/24/17 17:30	10
1,3-Butadiene	0.92	J	2.0	0.37	ppb v/v			10/24/17 17:30	10
Bromomethane	2.0	U	2.0	0.36	ppb v/v			10/24/17 17:30	10
Chloroethane	5.0	U	5.0	1.3	ppb v/v			10/24/17 17:30	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.22	ppb v/v			10/24/17 17:30	10
Trichlorofluoromethane	2.0	U	2.0	0.31	ppb v/v			10/24/17 17:30	10
Freon TF	2.0	U	2.0	0.27	ppb v/v			10/24/17 17:30	10
1,1-Dichloroethene	2.0	U	2.0	0.35	ppb v/v			10/24/17 17:30	10
Acetone	50	U	50	13	ppb v/v			10/24/17 17:30	10
Isopropyl alcohol	50	U	50	1.3	ppb v/v			10/24/17 17:30	10
Carbon disulfide	79		5.0	0.28	ppb v/v			10/24/17 17:30	10
3-Chloropropene	3.2	J	5.0	0.63	ppb v/v			10/24/17 17:30	10
Methylene Chloride	5.0	U	5.0	0.68	ppb v/v			10/24/17 17:30	10
tert-Butyl alcohol	50	U	50	17	ppb v/v			10/24/17 17:30	10
Methyl tert-butyl ether	2.0	U	2.0	0.41	ppb v/v			10/24/17 17:30	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.50	ppb v/v			10/24/17 17:30	10
n-Hexane	4.8		2.0	0.46	ppb v/v			10/24/17 17:30	10
1,1-Dichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 17:30	10
Methyl Ethyl Ketone	5.0	U	5.0	1.1	ppb v/v			10/24/17 17:30	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.29	ppb v/v			10/24/17 17:30	10
Chloroform	2.0	U	2.0	0.25	ppb v/v			10/24/17 17:30	10
Tetrahydrofuran	580	E	50	12	ppb v/v			10/24/17 17:30	10
1,1,1-Trichloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 17:30	10
Cyclohexane	2.0	U	2.0	0.45	ppb v/v			10/24/17 17:30	10
Carbon tetrachloride	0.58	J	2.0	0.11	ppb v/v			10/24/17 17:30	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.43	ppb v/v			10/24/17 17:30	10
Benzene	68		2.0	0.28	ppb v/v			10/24/17 17:30	10
1,2-Dichloroethane	2.0	U	2.0	0.34	ppb v/v			10/24/17 17:30	10
n-Heptane	2.0	U	2.0	0.68	ppb v/v			10/24/17 17:30	10
Trichloroethene	2.0	U	2.0	0.091	ppb v/v			10/24/17 17:30	10
Methyl methacrylate	5.0	U	5.0	1.1	ppb v/v			10/24/17 17:30	10
1,2-Dichloropropane	2.0	U	2.0	0.35	ppb v/v			10/24/17 17:30	10
1,4-Dioxane	50	U	50	7.6	ppb v/v			10/24/17 17:30	10
Bromodichloromethane	2.0	U	2.0	0.59	ppb v/v			10/24/17 17:30	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.36	ppb v/v			10/24/17 17:30	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG1D-G-39879

Lab Sample ID: 200-40522-2

Date Collected: 10/17/17 17:36

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	5.0	U	5.0	0.65	ppb v/v			10/24/17 17:30	10
Toluene	1.4	J	2.0	0.35	ppb v/v			10/24/17 17:30	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.38	ppb v/v			10/24/17 17:30	10
1,1,2-Trichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 17:30	10
Tetrachloroethene	2.0	U	2.0	0.098	ppb v/v			10/24/17 17:30	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	0.86	ppb v/v			10/24/17 17:30	10
Dibromochloromethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 17:30	10
1,2-Dibromoethane	2.0	U	2.0	0.23	ppb v/v			10/24/17 17:30	10
Chlorobenzene	2.0	U	2.0	0.25	ppb v/v			10/24/17 17:30	10
Ethylbenzene	0.45	J	2.0	0.34	ppb v/v			10/24/17 17:30	10
m,p-Xylene	5.0	U	5.0	0.77	ppb v/v			10/24/17 17:30	10
Xylene, o-	2.0	U	2.0	0.40	ppb v/v			10/24/17 17:30	10
Styrene	2.0	U	2.0	0.35	ppb v/v			10/24/17 17:30	10
Bromoform	2.0	U	2.0	0.35	ppb v/v			10/24/17 17:30	10
Cumene	5.1		2.0	0.39	ppb v/v			10/24/17 17:30	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 17:30	10
n-Propylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 17:30	10
4-Ethyltoluene	2.0	U	2.0	0.40	ppb v/v			10/24/17 17:30	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 17:30	10
2-Chlorotoluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 17:30	10
tert-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 17:30	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.57	ppb v/v			10/24/17 17:30	10
sec-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 17:30	10
4-Isopropyltoluene	2.0	U	2.0	0.52	ppb v/v			10/24/17 17:30	10
1,3-Dichlorobenzene	2.0	U	2.0	0.50	ppb v/v			10/24/17 17:30	10
1,4-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			10/24/17 17:30	10
Benzyl chloride	2.0	U	2.0	0.67	ppb v/v			10/24/17 17:30	10
n-Butylbenzene	2.0	U	2.0	0.68	ppb v/v			10/24/17 17:30	10
1,2-Dichlorobenzene	2.0	U	2.0	0.45	ppb v/v			10/24/17 17:30	10
1,2,4-Trichlorobenzene	5.0	U	5.0	1.9	ppb v/v			10/24/17 17:30	10
Hexachlorobutadiene	2.0	U	2.0	0.64	ppb v/v			10/24/17 17:30	10
Naphthalene	5.0	U	5.0	1.0	ppb v/v			10/24/17 17:30	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	2.3	ug/m3			10/24/17 17:30	10
Freon 22	18	U	18	7.1	ug/m3			10/24/17 17:30	10
1,2-Dichlorotetrafluoroethane	14	U	14	2.9	ug/m3			10/24/17 17:30	10
Chloromethane	23		10	3.3	ug/m3			10/24/17 17:30	10
n-Butane	73		12	1.1	ug/m3			10/24/17 17:30	10
Vinyl chloride	5.1	U	5.1	0.46	ug/m3			10/24/17 17:30	10
1,3-Butadiene	2.0	J	4.4	0.82	ug/m3			10/24/17 17:30	10
Bromomethane	7.8	U	7.8	1.4	ug/m3			10/24/17 17:30	10
Chloroethane	13	U	13	3.4	ug/m3			10/24/17 17:30	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.96	ug/m3			10/24/17 17:30	10
Trichlorofluoromethane	11	U	11	1.7	ug/m3			10/24/17 17:30	10
Freon TF	15	U	15	2.1	ug/m3			10/24/17 17:30	10
1,1-Dichloroethene	7.9	U	7.9	1.4	ug/m3			10/24/17 17:30	10
Acetone	120	U	120	31	ug/m3			10/24/17 17:30	10
Isopropyl alcohol	120	U	120	3.2	ug/m3			10/24/17 17:30	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG1D-G-39879

Lab Sample ID: 200-40522-2

Date Collected: 10/17/17 17:36

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	250		16	0.87	ug/m3			10/24/17 17:30	10
3-Chloropropene	10	J	16	2.0	ug/m3			10/24/17 17:30	10
Methylene Chloride	17	U	17	2.4	ug/m3			10/24/17 17:30	10
tert-Butyl alcohol	150	U	150	52	ug/m3			10/24/17 17:30	10
Methyl tert-butyl ether	7.2	U	7.2	1.5	ug/m3			10/24/17 17:30	10
trans-1,2-Dichloroethene	7.9	U	7.9	2.0	ug/m3			10/24/17 17:30	10
n-Hexane	17		7.0	1.6	ug/m3			10/24/17 17:30	10
1,1-Dichloroethane	8.1	U	8.1	0.69	ug/m3			10/24/17 17:30	10
Methyl Ethyl Ketone	15	U	15	3.2	ug/m3			10/24/17 17:30	10
cis-1,2-Dichloroethene	7.9	U	7.9	1.1	ug/m3			10/24/17 17:30	10
Chloroform	9.8	U	9.8	1.2	ug/m3			10/24/17 17:30	10
Tetrahydrofuran	1700	E	150	35	ug/m3			10/24/17 17:30	10
1,1,1-Trichloroethane	11	U	11	1.4	ug/m3			10/24/17 17:30	10
Cyclohexane	6.9	U	6.9	1.5	ug/m3			10/24/17 17:30	10
Carbon tetrachloride	3.6	J	13	0.69	ug/m3			10/24/17 17:30	10
2,2,4-Trimethylpentane	9.3	U	9.3	2.0	ug/m3			10/24/17 17:30	10
Benzene	220		6.4	0.89	ug/m3			10/24/17 17:30	10
1,2-Dichloroethane	8.1	U	8.1	1.4	ug/m3			10/24/17 17:30	10
n-Heptane	8.2	U	8.2	2.8	ug/m3			10/24/17 17:30	10
Trichloroethene	11	U	11	0.49	ug/m3			10/24/17 17:30	10
Methyl methacrylate	20	U	20	4.5	ug/m3			10/24/17 17:30	10
1,2-Dichloropropane	9.2	U	9.2	1.6	ug/m3			10/24/17 17:30	10
1,4-Dioxane	180	U	180	27	ug/m3			10/24/17 17:30	10
Bromodichloromethane	13	U	13	4.0	ug/m3			10/24/17 17:30	10
cis-1,3-Dichloropropene	9.1	U	9.1	1.6	ug/m3			10/24/17 17:30	10
methyl isobutyl ketone	20	U	20	2.7	ug/m3			10/24/17 17:30	10
Toluene	5.2	J	7.5	1.3	ug/m3			10/24/17 17:30	10
trans-1,3-Dichloropropene	9.1	U	9.1	1.7	ug/m3			10/24/17 17:30	10
1,1,2-Trichloroethane	11	U	11	0.93	ug/m3			10/24/17 17:30	10
Tetrachloroethene	14	U	14	0.66	ug/m3			10/24/17 17:30	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	3.5	ug/m3			10/24/17 17:30	10
Dibromochloromethane	17	U	17	1.4	ug/m3			10/24/17 17:30	10
1,2-Dibromoethane	15	U	15	1.8	ug/m3			10/24/17 17:30	10
Chlorobenzene	9.2	U	9.2	1.2	ug/m3			10/24/17 17:30	10
Ethylbenzene	1.9	J	8.7	1.5	ug/m3			10/24/17 17:30	10
m,p-Xylene	22	U	22	3.3	ug/m3			10/24/17 17:30	10
Xylene, o-	8.7	U	8.7	1.7	ug/m3			10/24/17 17:30	10
Styrene	8.5	U	8.5	1.5	ug/m3			10/24/17 17:30	10
Bromoform	21	U	21	3.6	ug/m3			10/24/17 17:30	10
Cumene	25		9.8	1.9	ug/m3			10/24/17 17:30	10
1,1,2,2-Tetrachloroethane	14	U	14	1.8	ug/m3			10/24/17 17:30	10
n-Propylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 17:30	10
4-Ethyltoluene	9.8	U	9.8	2.0	ug/m3			10/24/17 17:30	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 17:30	10
2-Chlorotoluene	10	U	10	1.8	ug/m3			10/24/17 17:30	10
tert-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 17:30	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.8	ug/m3			10/24/17 17:30	10
sec-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 17:30	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG1D-G-39879

Lab Sample ID: 200-40522-2

Date Collected: 10/17/17 17:36

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	11	U	11	2.9	ug/m3			10/24/17 17:30	10
1,3-Dichlorobenzene	12	U	12	3.0	ug/m3			10/24/17 17:30	10
1,4-Dichlorobenzene	12	U	12	3.8	ug/m3			10/24/17 17:30	10
Benzyl chloride	10	U	10	3.5	ug/m3			10/24/17 17:30	10
n-Butylbenzene	11	U	11	3.7	ug/m3			10/24/17 17:30	10
1,2-Dichlorobenzene	12	U	12	2.7	ug/m3			10/24/17 17:30	10
1,2,4-Trichlorobenzene	37	U	37	14	ug/m3			10/24/17 17:30	10
Hexachlorobutadiene	21	U	21	6.8	ug/m3			10/24/17 17:30	10
Naphthalene	26	U	26	5.2	ug/m3			10/24/17 17:30	10

Client Sample ID: AGSG2S-G-39880

Lab Sample ID: 200-40522-3

Date Collected: 10/17/17 17:37

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.47	ppb v/v			10/24/17 18:23	10
Freon 22	5.0	U	5.0	2.0	ppb v/v			10/24/17 18:23	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.41	ppb v/v			10/24/17 18:23	10
Chloromethane	5.9		5.0	1.6	ppb v/v			10/24/17 18:23	10
n-Butane	5.1		5.0	0.46	ppb v/v			10/24/17 18:23	10
Vinyl chloride	2.0	U	2.0	0.18	ppb v/v			10/24/17 18:23	10
1,3-Butadiene	2.0	U	2.0	0.37	ppb v/v			10/24/17 18:23	10
Bromomethane	2.0	U	2.0	0.36	ppb v/v			10/24/17 18:23	10
Chloroethane	5.0	U	5.0	1.3	ppb v/v			10/24/17 18:23	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.22	ppb v/v			10/24/17 18:23	10
Trichlorofluoromethane	2.0	U	2.0	0.31	ppb v/v			10/24/17 18:23	10
Freon TF	2.0	U	2.0	0.27	ppb v/v			10/24/17 18:23	10
1,1-Dichloroethene	2.0	U	2.0	0.35	ppb v/v			10/24/17 18:23	10
Acetone	120		50	13	ppb v/v			10/24/17 18:23	10
Isopropyl alcohol	50	U	50	1.3	ppb v/v			10/24/17 18:23	10
Carbon disulfide	13		5.0	0.28	ppb v/v			10/24/17 18:23	10
3-Chloropropene	5.0	U	5.0	0.63	ppb v/v			10/24/17 18:23	10
Methylene Chloride	5.0	U	5.0	0.68	ppb v/v			10/24/17 18:23	10
tert-Butyl alcohol	50	U	50	17	ppb v/v			10/24/17 18:23	10
Methyl tert-butyl ether	2.0	U	2.0	0.41	ppb v/v			10/24/17 18:23	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.50	ppb v/v			10/24/17 18:23	10
n-Hexane	2.0	U	2.0	0.46	ppb v/v			10/24/17 18:23	10
1,1-Dichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 18:23	10
Methyl Ethyl Ketone	42		5.0	1.1	ppb v/v			10/24/17 18:23	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.29	ppb v/v			10/24/17 18:23	10
Chloroform	2.0	U	2.0	0.25	ppb v/v			10/24/17 18:23	10
Tetrahydrofuran	400		50	12	ppb v/v			10/24/17 18:23	10
1,1,1-Trichloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 18:23	10
Cyclohexane	2.0	U	2.0	0.45	ppb v/v			10/24/17 18:23	10
Carbon tetrachloride	2.0	U	2.0	0.11	ppb v/v			10/24/17 18:23	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.43	ppb v/v			10/24/17 18:23	10
Benzene	14		2.0	0.28	ppb v/v			10/24/17 18:23	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG2S-G-39880

Lab Sample ID: 200-40522-3

Date Collected: 10/17/17 17:37

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	2.0	U	2.0	0.34	ppb v/v			10/24/17 18:23	10
n-Heptane	2.0	U	2.0	0.68	ppb v/v			10/24/17 18:23	10
Trichloroethene	2.0	U	2.0	0.091	ppb v/v			10/24/17 18:23	10
Methyl methacrylate	5.0	U	5.0	1.1	ppb v/v			10/24/17 18:23	10
1,2-Dichloropropane	2.0	U	2.0	0.35	ppb v/v			10/24/17 18:23	10
1,4-Dioxane	50	U	50	7.6	ppb v/v			10/24/17 18:23	10
Bromodichloromethane	2.0	U	2.0	0.59	ppb v/v			10/24/17 18:23	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.36	ppb v/v			10/24/17 18:23	10
methyl isobutyl ketone	5.0	U	5.0	0.65	ppb v/v			10/24/17 18:23	10
Toluene	0.53	J	2.0	0.35	ppb v/v			10/24/17 18:23	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.38	ppb v/v			10/24/17 18:23	10
1,1,2-Trichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 18:23	10
Tetrachloroethene	2.0	U	2.0	0.098	ppb v/v			10/24/17 18:23	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	0.86	ppb v/v			10/24/17 18:23	10
Dibromochloromethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 18:23	10
1,2-Dibromoethane	2.0	U	2.0	0.23	ppb v/v			10/24/17 18:23	10
Chlorobenzene	2.0	U	2.0	0.25	ppb v/v			10/24/17 18:23	10
Ethylbenzene	0.36	J	2.0	0.34	ppb v/v			10/24/17 18:23	10
m,p-Xylene	5.0	U	5.0	0.77	ppb v/v			10/24/17 18:23	10
Xylene, o-	2.0	U	2.0	0.40	ppb v/v			10/24/17 18:23	10
Styrene	2.0	U	2.0	0.35	ppb v/v			10/24/17 18:23	10
Bromoform	2.0	U	2.0	0.35	ppb v/v			10/24/17 18:23	10
Cumene	8.7		2.0	0.39	ppb v/v			10/24/17 18:23	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 18:23	10
n-Propylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 18:23	10
4-Ethyltoluene	2.0	U	2.0	0.40	ppb v/v			10/24/17 18:23	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 18:23	10
2-Chlorotoluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 18:23	10
tert-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 18:23	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.57	ppb v/v			10/24/17 18:23	10
sec-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 18:23	10
4-Isopropyltoluene	2.0	U	2.0	0.52	ppb v/v			10/24/17 18:23	10
1,3-Dichlorobenzene	2.0	U	2.0	0.50	ppb v/v			10/24/17 18:23	10
1,4-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			10/24/17 18:23	10
Benzyl chloride	2.0	U	2.0	0.67	ppb v/v			10/24/17 18:23	10
n-Butylbenzene	2.0	U	2.0	0.68	ppb v/v			10/24/17 18:23	10
1,2-Dichlorobenzene	2.0	U	2.0	0.45	ppb v/v			10/24/17 18:23	10
1,2,4-Trichlorobenzene	5.0	U	5.0	1.9	ppb v/v			10/24/17 18:23	10
Hexachlorobutadiene	2.0	U	2.0	0.64	ppb v/v			10/24/17 18:23	10
Naphthalene	5.0	U	5.0	1.0	ppb v/v			10/24/17 18:23	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	2.3	ug/m3			10/24/17 18:23	10
Freon 22	18	U	18	7.1	ug/m3			10/24/17 18:23	10
1,2-Dichlorotetrafluoroethane	14	U	14	2.9	ug/m3			10/24/17 18:23	10
Chloromethane	12		10	3.3	ug/m3			10/24/17 18:23	10
n-Butane	12		12	1.1	ug/m3			10/24/17 18:23	10
Vinyl chloride	5.1	U	5.1	0.46	ug/m3			10/24/17 18:23	10
1,3-Butadiene	4.4	U	4.4	0.82	ug/m3			10/24/17 18:23	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG2S-G-39880

Lab Sample ID: 200-40522-3

Date Collected: 10/17/17 17:37

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	7.8	U	7.8	1.4	ug/m3			10/24/17 18:23	10
Chloroethane	13	U	13	3.4	ug/m3			10/24/17 18:23	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.96	ug/m3			10/24/17 18:23	10
Trichlorofluoromethane	11	U	11	1.7	ug/m3			10/24/17 18:23	10
Freon TF	15	U	15	2.1	ug/m3			10/24/17 18:23	10
1,1-Dichloroethene	7.9	U	7.9	1.4	ug/m3			10/24/17 18:23	10
Acetone	290		120	31	ug/m3			10/24/17 18:23	10
Isopropyl alcohol	120	U	120	3.2	ug/m3			10/24/17 18:23	10
Carbon disulfide	40		16	0.87	ug/m3			10/24/17 18:23	10
3-Chloropropene	16	U	16	2.0	ug/m3			10/24/17 18:23	10
Methylene Chloride	17	U	17	2.4	ug/m3			10/24/17 18:23	10
tert-Butyl alcohol	150	U	150	52	ug/m3			10/24/17 18:23	10
Methyl tert-butyl ether	7.2	U	7.2	1.5	ug/m3			10/24/17 18:23	10
trans-1,2-Dichloroethene	7.9	U	7.9	2.0	ug/m3			10/24/17 18:23	10
n-Hexane	7.0	U	7.0	1.6	ug/m3			10/24/17 18:23	10
1,1-Dichloroethane	8.1	U	8.1	0.69	ug/m3			10/24/17 18:23	10
Methyl Ethyl Ketone	120		15	3.2	ug/m3			10/24/17 18:23	10
cis-1,2-Dichloroethene	7.9	U	7.9	1.1	ug/m3			10/24/17 18:23	10
Chloroform	9.8	U	9.8	1.2	ug/m3			10/24/17 18:23	10
Tetrahydrofuran	1200		150	35	ug/m3			10/24/17 18:23	10
1,1,1-Trichloroethane	11	U	11	1.4	ug/m3			10/24/17 18:23	10
Cyclohexane	6.9	U	6.9	1.5	ug/m3			10/24/17 18:23	10
Carbon tetrachloride	13	U	13	0.69	ug/m3			10/24/17 18:23	10
2,2,4-Trimethylpentane	9.3	U	9.3	2.0	ug/m3			10/24/17 18:23	10
Benzene	43		6.4	0.89	ug/m3			10/24/17 18:23	10
1,2-Dichloroethane	8.1	U	8.1	1.4	ug/m3			10/24/17 18:23	10
n-Heptane	8.2	U	8.2	2.8	ug/m3			10/24/17 18:23	10
Trichloroethene	11	U	11	0.49	ug/m3			10/24/17 18:23	10
Methyl methacrylate	20	U	20	4.5	ug/m3			10/24/17 18:23	10
1,2-Dichloropropane	9.2	U	9.2	1.6	ug/m3			10/24/17 18:23	10
1,4-Dioxane	180	U	180	27	ug/m3			10/24/17 18:23	10
Bromodichloromethane	13	U	13	4.0	ug/m3			10/24/17 18:23	10
cis-1,3-Dichloropropene	9.1	U	9.1	1.6	ug/m3			10/24/17 18:23	10
methyl isobutyl ketone	20	U	20	2.7	ug/m3			10/24/17 18:23	10
Toluene	2.0 J		7.5	1.3	ug/m3			10/24/17 18:23	10
trans-1,3-Dichloropropene	9.1	U	9.1	1.7	ug/m3			10/24/17 18:23	10
1,1,2-Trichloroethane	11	U	11	0.93	ug/m3			10/24/17 18:23	10
Tetrachloroethene	14	U	14	0.66	ug/m3			10/24/17 18:23	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	3.5	ug/m3			10/24/17 18:23	10
Dibromochloromethane	17	U	17	1.4	ug/m3			10/24/17 18:23	10
1,2-Dibromoethane	15	U	15	1.8	ug/m3			10/24/17 18:23	10
Chlorobenzene	9.2	U	9.2	1.2	ug/m3			10/24/17 18:23	10
Ethylbenzene	1.6 J		8.7	1.5	ug/m3			10/24/17 18:23	10
m,p-Xylene	22	U	22	3.3	ug/m3			10/24/17 18:23	10
Xylene, o-	8.7	U	8.7	1.7	ug/m3			10/24/17 18:23	10
Styrene	8.5	U	8.5	1.5	ug/m3			10/24/17 18:23	10
Bromoform	21	U	21	3.6	ug/m3			10/24/17 18:23	10
Cumene	43		9.8	1.9	ug/m3			10/24/17 18:23	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG2S-G-39880

Lab Sample ID: 200-40522-3

Date Collected: 10/17/17 17:37

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	14	U	14	1.8	ug/m3			10/24/17 18:23	10
n-Propylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 18:23	10
4-Ethyltoluene	9.8	U	9.8	2.0	ug/m3			10/24/17 18:23	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 18:23	10
2-Chlorotoluene	10	U	10	1.8	ug/m3			10/24/17 18:23	10
tert-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 18:23	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.8	ug/m3			10/24/17 18:23	10
sec-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 18:23	10
4-Isopropyltoluene	11	U	11	2.9	ug/m3			10/24/17 18:23	10
1,3-Dichlorobenzene	12	U	12	3.0	ug/m3			10/24/17 18:23	10
1,4-Dichlorobenzene	12	U	12	3.8	ug/m3			10/24/17 18:23	10
Benzyl chloride	10	U	10	3.5	ug/m3			10/24/17 18:23	10
n-Butylbenzene	11	U	11	3.7	ug/m3			10/24/17 18:23	10
1,2-Dichlorobenzene	12	U	12	2.7	ug/m3			10/24/17 18:23	10
1,2,4-Trichlorobenzene	37	U	37	14	ug/m3			10/24/17 18:23	10
Hexachlorobutadiene	21	U	21	6.8	ug/m3			10/24/17 18:23	10
Naphthalene	26	U	26	5.2	ug/m3			10/24/17 18:23	10

Client Sample ID: AGSG2D-G-39881

Lab Sample ID: 200-40522-4

Date Collected: 10/17/17 17:38

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.47	ppb v/v			10/24/17 19:17	10
Freon 22	5.0	U	5.0	2.0	ppb v/v			10/24/17 19:17	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.41	ppb v/v			10/24/17 19:17	10
Chloromethane	5.0	U	5.0	1.6	ppb v/v			10/24/17 19:17	10
n-Butane	5.0	U	5.0	0.46	ppb v/v			10/24/17 19:17	10
Vinyl chloride	2.0	U	2.0	0.18	ppb v/v			10/24/17 19:17	10
1,3-Butadiene	2.0	U	2.0	0.37	ppb v/v			10/24/17 19:17	10
Bromomethane	2.0	U	2.0	0.36	ppb v/v			10/24/17 19:17	10
Chloroethane	5.0	U	5.0	1.3	ppb v/v			10/24/17 19:17	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.22	ppb v/v			10/24/17 19:17	10
Trichlorofluoromethane	2.0	U	2.0	0.31	ppb v/v			10/24/17 19:17	10
Freon TF	2.0	U	2.0	0.27	ppb v/v			10/24/17 19:17	10
1,1-Dichloroethene	2.0	U	2.0	0.35	ppb v/v			10/24/17 19:17	10
Acetone	56		50	13	ppb v/v			10/24/17 19:17	10
Isopropyl alcohol	50	U	50	1.3	ppb v/v			10/24/17 19:17	10
Carbon disulfide	5.0	U	5.0	0.28	ppb v/v			10/24/17 19:17	10
3-Chloropropene	5.0	U	5.0	0.63	ppb v/v			10/24/17 19:17	10
Methylene Chloride	5.0	U	5.0	0.68	ppb v/v			10/24/17 19:17	10
tert-Butyl alcohol	50	U	50	17	ppb v/v			10/24/17 19:17	10
Methyl tert-butyl ether	2.0	U	2.0	0.41	ppb v/v			10/24/17 19:17	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.50	ppb v/v			10/24/17 19:17	10
n-Hexane	2.0	U	2.0	0.46	ppb v/v			10/24/17 19:17	10
1,1-Dichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 19:17	10
Methyl Ethyl Ketone	11		5.0	1.1	ppb v/v			10/24/17 19:17	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG2D-G-39881

Lab Sample ID: 200-40522-4

Date Collected: 10/17/17 17:38

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	2.0	U	2.0	0.29	ppb v/v			10/24/17 19:17	10
Chloroform	2.0	U	2.0	0.25	ppb v/v			10/24/17 19:17	10
Tetrahydrofuran	50	U	50	12	ppb v/v			10/24/17 19:17	10
1,1,1-Trichloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 19:17	10
Cyclohexane	2.0	U	2.0	0.45	ppb v/v			10/24/17 19:17	10
Carbon tetrachloride	2.0	U	2.0	0.11	ppb v/v			10/24/17 19:17	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.43	ppb v/v			10/24/17 19:17	10
Benzene	3.8		2.0	0.28	ppb v/v			10/24/17 19:17	10
1,2-Dichloroethane	2.0	U	2.0	0.34	ppb v/v			10/24/17 19:17	10
n-Heptane	2.0	U	2.0	0.68	ppb v/v			10/24/17 19:17	10
Trichloroethene	2.0	U	2.0	0.091	ppb v/v			10/24/17 19:17	10
Methyl methacrylate	5.0	U	5.0	1.1	ppb v/v			10/24/17 19:17	10
1,2-Dichloropropane	2.0	U	2.0	0.35	ppb v/v			10/24/17 19:17	10
1,4-Dioxane	50	U	50	7.6	ppb v/v			10/24/17 19:17	10
Bromodichloromethane	2.0	U	2.0	0.59	ppb v/v			10/24/17 19:17	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.36	ppb v/v			10/24/17 19:17	10
methyl isobutyl ketone	5.0	U	5.0	0.65	ppb v/v			10/24/17 19:17	10
Toluene	0.38	J	2.0	0.35	ppb v/v			10/24/17 19:17	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.38	ppb v/v			10/24/17 19:17	10
1,1,2-Trichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 19:17	10
Tetrachloroethene	2.0	U	2.0	0.098	ppb v/v			10/24/17 19:17	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	0.86	ppb v/v			10/24/17 19:17	10
Dibromochloromethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 19:17	10
1,2-Dibromoethane	2.0	U	2.0	0.23	ppb v/v			10/24/17 19:17	10
Chlorobenzene	2.0	U	2.0	0.25	ppb v/v			10/24/17 19:17	10
Ethylbenzene	0.34	J	2.0	0.34	ppb v/v			10/24/17 19:17	10
m,p-Xylene	5.0	U	5.0	0.77	ppb v/v			10/24/17 19:17	10
Xylene, o-	2.0	U	2.0	0.40	ppb v/v			10/24/17 19:17	10
Styrene	2.0	U	2.0	0.35	ppb v/v			10/24/17 19:17	10
Bromoform	2.0	U	2.0	0.35	ppb v/v			10/24/17 19:17	10
Cumene	2.0		2.0	0.39	ppb v/v			10/24/17 19:17	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 19:17	10
n-Propylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 19:17	10
4-Ethyltoluene	2.0	U	2.0	0.40	ppb v/v			10/24/17 19:17	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 19:17	10
2-Chlorotoluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 19:17	10
tert-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 19:17	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.57	ppb v/v			10/24/17 19:17	10
sec-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 19:17	10
4-Isopropyltoluene	2.0	U	2.0	0.52	ppb v/v			10/24/17 19:17	10
1,3-Dichlorobenzene	2.0	U	2.0	0.50	ppb v/v			10/24/17 19:17	10
1,4-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			10/24/17 19:17	10
Benzyl chloride	2.0	U	2.0	0.67	ppb v/v			10/24/17 19:17	10
n-Butylbenzene	2.0	U	2.0	0.68	ppb v/v			10/24/17 19:17	10
1,2-Dichlorobenzene	2.0	U	2.0	0.45	ppb v/v			10/24/17 19:17	10
1,2,4-Trichlorobenzene	5.0	U	5.0	1.9	ppb v/v			10/24/17 19:17	10
Hexachlorobutadiene	2.0	U	2.0	0.64	ppb v/v			10/24/17 19:17	10
Naphthalene	5.0	U	5.0	1.0	ppb v/v			10/24/17 19:17	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG2D-G-39881

Lab Sample ID: 200-40522-4

Date Collected: 10/17/17 17:38

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	2.3	ug/m3			10/24/17 19:17	10
Freon 22	18	U	18	7.1	ug/m3			10/24/17 19:17	10
1,2-Dichlorotetrafluoroethane	14	U	14	2.9	ug/m3			10/24/17 19:17	10
Chloromethane	10	U	10	3.3	ug/m3			10/24/17 19:17	10
n-Butane	12	U	12	1.1	ug/m3			10/24/17 19:17	10
Vinyl chloride	5.1	U	5.1	0.46	ug/m3			10/24/17 19:17	10
1,3-Butadiene	4.4	U	4.4	0.82	ug/m3			10/24/17 19:17	10
Bromomethane	7.8	U	7.8	1.4	ug/m3			10/24/17 19:17	10
Chloroethane	13	U	13	3.4	ug/m3			10/24/17 19:17	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.96	ug/m3			10/24/17 19:17	10
Trichlorofluoromethane	11	U	11	1.7	ug/m3			10/24/17 19:17	10
Freon TF	15	U	15	2.1	ug/m3			10/24/17 19:17	10
1,1-Dichloroethene	7.9	U	7.9	1.4	ug/m3			10/24/17 19:17	10
Acetone	130		120	31	ug/m3			10/24/17 19:17	10
Isopropyl alcohol	120	U	120	3.2	ug/m3			10/24/17 19:17	10
Carbon disulfide	16	U	16	0.87	ug/m3			10/24/17 19:17	10
3-Chloropropene	16	U	16	2.0	ug/m3			10/24/17 19:17	10
Methylene Chloride	17	U	17	2.4	ug/m3			10/24/17 19:17	10
tert-Butyl alcohol	150	U	150	52	ug/m3			10/24/17 19:17	10
Methyl tert-butyl ether	7.2	U	7.2	1.5	ug/m3			10/24/17 19:17	10
trans-1,2-Dichloroethene	7.9	U	7.9	2.0	ug/m3			10/24/17 19:17	10
n-Hexane	7.0	U	7.0	1.6	ug/m3			10/24/17 19:17	10
1,1-Dichloroethane	8.1	U	8.1	0.69	ug/m3			10/24/17 19:17	10
Methyl Ethyl Ketone	34		15	3.2	ug/m3			10/24/17 19:17	10
cis-1,2-Dichloroethene	7.9	U	7.9	1.1	ug/m3			10/24/17 19:17	10
Chloroform	9.8	U	9.8	1.2	ug/m3			10/24/17 19:17	10
Tetrahydrofuran	150	U	150	35	ug/m3			10/24/17 19:17	10
1,1,1-Trichloroethane	11	U	11	1.4	ug/m3			10/24/17 19:17	10
Cyclohexane	6.9	U	6.9	1.5	ug/m3			10/24/17 19:17	10
Carbon tetrachloride	13	U	13	0.69	ug/m3			10/24/17 19:17	10
2,2,4-Trimethylpentane	9.3	U	9.3	2.0	ug/m3			10/24/17 19:17	10
Benzene	12		6.4	0.89	ug/m3			10/24/17 19:17	10
1,2-Dichloroethane	8.1	U	8.1	1.4	ug/m3			10/24/17 19:17	10
n-Heptane	8.2	U	8.2	2.8	ug/m3			10/24/17 19:17	10
Trichloroethene	11	U	11	0.49	ug/m3			10/24/17 19:17	10
Methyl methacrylate	20	U	20	4.5	ug/m3			10/24/17 19:17	10
1,2-Dichloropropane	9.2	U	9.2	1.6	ug/m3			10/24/17 19:17	10
1,4-Dioxane	180	U	180	27	ug/m3			10/24/17 19:17	10
Bromodichloromethane	13	U	13	4.0	ug/m3			10/24/17 19:17	10
cis-1,3-Dichloropropene	9.1	U	9.1	1.6	ug/m3			10/24/17 19:17	10
methyl isobutyl ketone	20	U	20	2.7	ug/m3			10/24/17 19:17	10
Toluene	1.4 J		7.5	1.3	ug/m3			10/24/17 19:17	10
trans-1,3-Dichloropropene	9.1	U	9.1	1.7	ug/m3			10/24/17 19:17	10
1,1,2-Trichloroethane	11	U	11	0.93	ug/m3			10/24/17 19:17	10
Tetrachloroethene	14	U	14	0.66	ug/m3			10/24/17 19:17	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	3.5	ug/m3			10/24/17 19:17	10
Dibromochloromethane	17	U	17	1.4	ug/m3			10/24/17 19:17	10
1,2-Dibromoethane	15	U	15	1.8	ug/m3			10/24/17 19:17	10
Chlorobenzene	9.2	U	9.2	1.2	ug/m3			10/24/17 19:17	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG2D-G-39881

Lab Sample ID: 200-40522-4

Date Collected: 10/17/17 17:38

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.5	J	8.7	1.5	ug/m3			10/24/17 19:17	10
m,p-Xylene	22	U	22	3.3	ug/m3			10/24/17 19:17	10
Xylene, o-	8.7	U	8.7	1.7	ug/m3			10/24/17 19:17	10
Styrene	8.5	U	8.5	1.5	ug/m3			10/24/17 19:17	10
Bromoform	21	U	21	3.6	ug/m3			10/24/17 19:17	10
Cumene	10		9.8	1.9	ug/m3			10/24/17 19:17	10
1,1,2,2-Tetrachloroethane	14	U	14	1.8	ug/m3			10/24/17 19:17	10
n-Propylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 19:17	10
4-Ethyltoluene	9.8	U	9.8	2.0	ug/m3			10/24/17 19:17	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 19:17	10
2-Chlorotoluene	10	U	10	1.8	ug/m3			10/24/17 19:17	10
tert-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 19:17	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.8	ug/m3			10/24/17 19:17	10
sec-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 19:17	10
4-Isopropyltoluene	11	U	11	2.9	ug/m3			10/24/17 19:17	10
1,3-Dichlorobenzene	12	U	12	3.0	ug/m3			10/24/17 19:17	10
1,4-Dichlorobenzene	12	U	12	3.8	ug/m3			10/24/17 19:17	10
Benzyl chloride	10	U	10	3.5	ug/m3			10/24/17 19:17	10
n-Butylbenzene	11	U	11	3.7	ug/m3			10/24/17 19:17	10
1,2-Dichlorobenzene	12	U	12	2.7	ug/m3			10/24/17 19:17	10
1,2,4-Trichlorobenzene	37	U	37	14	ug/m3			10/24/17 19:17	10
Hexachlorobutadiene	21	U	21	6.8	ug/m3			10/24/17 19:17	10
Naphthalene	26	U	26	5.2	ug/m3			10/24/17 19:17	10

Client Sample ID: AGSG3S-G-39882

Lab Sample ID: 200-40522-5

Date Collected: 10/17/17 17:39

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.47	ppb v/v			10/24/17 20:11	10
Freon 22	5.0	U	5.0	2.0	ppb v/v			10/24/17 20:11	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.41	ppb v/v			10/24/17 20:11	10
Chloromethane	8.7		5.0	1.6	ppb v/v			10/24/17 20:11	10
n-Butane	18		5.0	0.46	ppb v/v			10/24/17 20:11	10
Vinyl chloride	2.0	U	2.0	0.18	ppb v/v			10/24/17 20:11	10
1,3-Butadiene	2.0	U	2.0	0.37	ppb v/v			10/24/17 20:11	10
Bromomethane	2.0	U	2.0	0.36	ppb v/v			10/24/17 20:11	10
Chloroethane	5.0	U	5.0	1.3	ppb v/v			10/24/17 20:11	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.22	ppb v/v			10/24/17 20:11	10
Trichlorofluoromethane	2.0	U	2.0	0.31	ppb v/v			10/24/17 20:11	10
Freon TF	2.0	U	2.0	0.27	ppb v/v			10/24/17 20:11	10
1,1-Dichloroethene	2.0	U	2.0	0.35	ppb v/v			10/24/17 20:11	10
Acetone	98		50	13	ppb v/v			10/24/17 20:11	10
Isopropyl alcohol	50	U	50	1.3	ppb v/v			10/24/17 20:11	10
Carbon disulfide	36		5.0	0.28	ppb v/v			10/24/17 20:11	10
3-Chloropropene	1.6	J	5.0	0.63	ppb v/v			10/24/17 20:11	10
Methylene Chloride	5.0	U	5.0	0.68	ppb v/v			10/24/17 20:11	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG3S-G-39882

Lab Sample ID: 200-40522-5

Date Collected: 10/17/17 17:39

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol	50	U	50	17	ppb v/v			10/24/17 20:11	10
Methyl tert-butyl ether	2.0	U	2.0	0.41	ppb v/v			10/24/17 20:11	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.50	ppb v/v			10/24/17 20:11	10
n-Hexane	2.4		2.0	0.46	ppb v/v			10/24/17 20:11	10
1,1-Dichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 20:11	10
Methyl Ethyl Ketone	5.0	U	5.0	1.1	ppb v/v			10/24/17 20:11	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.29	ppb v/v			10/24/17 20:11	10
Chloroform	2.0	U	2.0	0.25	ppb v/v			10/24/17 20:11	10
Tetrahydrofuran	1500	E	50	12	ppb v/v			10/24/17 20:11	10
1,1,1-Trichloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 20:11	10
Cyclohexane	2.0	U	2.0	0.45	ppb v/v			10/24/17 20:11	10
Carbon tetrachloride	2.0	U	2.0	0.11	ppb v/v			10/24/17 20:11	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.43	ppb v/v			10/24/17 20:11	10
Benzene	21		2.0	0.28	ppb v/v			10/24/17 20:11	10
1,2-Dichloroethane	2.0	U	2.0	0.34	ppb v/v			10/24/17 20:11	10
n-Heptane	2.0	U	2.0	0.68	ppb v/v			10/24/17 20:11	10
Trichloroethene	2.0	U	2.0	0.091	ppb v/v			10/24/17 20:11	10
Methyl methacrylate	5.0	U	5.0	1.1	ppb v/v			10/24/17 20:11	10
1,2-Dichloropropane	2.0	U	2.0	0.35	ppb v/v			10/24/17 20:11	10
1,4-Dioxane	50	U	50	7.6	ppb v/v			10/24/17 20:11	10
Bromodichloromethane	2.0	U	2.0	0.59	ppb v/v			10/24/17 20:11	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.36	ppb v/v			10/24/17 20:11	10
methyl isobutyl ketone	5.0	U	5.0	0.65	ppb v/v			10/24/17 20:11	10
Toluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 20:11	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.38	ppb v/v			10/24/17 20:11	10
1,1,2-Trichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 20:11	10
Tetrachloroethene	2.0	U	2.0	0.098	ppb v/v			10/24/17 20:11	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	0.86	ppb v/v			10/24/17 20:11	10
Dibromochloromethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 20:11	10
1,2-Dibromoethane	2.0	U	2.0	0.23	ppb v/v			10/24/17 20:11	10
Chlorobenzene	2.0	U	2.0	0.25	ppb v/v			10/24/17 20:11	10
Ethylbenzene	2.0	U	2.0	0.34	ppb v/v			10/24/17 20:11	10
m,p-Xylene	5.0	U	5.0	0.77	ppb v/v			10/24/17 20:11	10
Xylene, o-	2.0	U	2.0	0.40	ppb v/v			10/24/17 20:11	10
Styrene	2.0	U	2.0	0.35	ppb v/v			10/24/17 20:11	10
Bromoform	2.0	U	2.0	0.35	ppb v/v			10/24/17 20:11	10
Cumene	4.9		2.0	0.39	ppb v/v			10/24/17 20:11	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 20:11	10
n-Propylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 20:11	10
4-Ethyltoluene	2.0	U	2.0	0.40	ppb v/v			10/24/17 20:11	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 20:11	10
2-Chlorotoluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 20:11	10
tert-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 20:11	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.57	ppb v/v			10/24/17 20:11	10
sec-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 20:11	10
4-Isopropyltoluene	2.0	U	2.0	0.52	ppb v/v			10/24/17 20:11	10
1,3-Dichlorobenzene	2.0	U	2.0	0.50	ppb v/v			10/24/17 20:11	10
1,4-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			10/24/17 20:11	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG3S-G-39882

Lab Sample ID: 200-40522-5

Date Collected: 10/17/17 17:39

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	2.0	U	2.0	0.67	ppb v/v			10/24/17 20:11	10
n-Butylbenzene	2.0	U	2.0	0.68	ppb v/v			10/24/17 20:11	10
1,2-Dichlorobenzene	2.0	U	2.0	0.45	ppb v/v			10/24/17 20:11	10
1,2,4-Trichlorobenzene	5.0	U	5.0	1.9	ppb v/v			10/24/17 20:11	10
Hexachlorobutadiene	2.0	U	2.0	0.64	ppb v/v			10/24/17 20:11	10
Naphthalene	5.0	U	5.0	1.0	ppb v/v			10/24/17 20:11	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	2.3	ug/m3			10/24/17 20:11	10
Freon 22	18	U	18	7.1	ug/m3			10/24/17 20:11	10
1,2-Dichlorotetrafluoroethane	14	U	14	2.9	ug/m3			10/24/17 20:11	10
Chloromethane	18		10	3.3	ug/m3			10/24/17 20:11	10
n-Butane	44		12	1.1	ug/m3			10/24/17 20:11	10
Vinyl chloride	5.1	U	5.1	0.46	ug/m3			10/24/17 20:11	10
1,3-Butadiene	4.4	U	4.4	0.82	ug/m3			10/24/17 20:11	10
Bromomethane	7.8	U	7.8	1.4	ug/m3			10/24/17 20:11	10
Chloroethane	13	U	13	3.4	ug/m3			10/24/17 20:11	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.96	ug/m3			10/24/17 20:11	10
Trichlorofluoromethane	11	U	11	1.7	ug/m3			10/24/17 20:11	10
Freon TF	15	U	15	2.1	ug/m3			10/24/17 20:11	10
1,1-Dichloroethene	7.9	U	7.9	1.4	ug/m3			10/24/17 20:11	10
Acetone	230		120	31	ug/m3			10/24/17 20:11	10
Isopropyl alcohol	120	U	120	3.2	ug/m3			10/24/17 20:11	10
Carbon disulfide	110		16	0.87	ug/m3			10/24/17 20:11	10
3-Chloropropene	5.1	J	16	2.0	ug/m3			10/24/17 20:11	10
Methylene Chloride	17	U	17	2.4	ug/m3			10/24/17 20:11	10
tert-Butyl alcohol	150	U	150	52	ug/m3			10/24/17 20:11	10
Methyl tert-butyl ether	7.2	U	7.2	1.5	ug/m3			10/24/17 20:11	10
trans-1,2-Dichloroethene	7.9	U	7.9	2.0	ug/m3			10/24/17 20:11	10
n-Hexane	8.6		7.0	1.6	ug/m3			10/24/17 20:11	10
1,1-Dichloroethane	8.1	U	8.1	0.69	ug/m3			10/24/17 20:11	10
Methyl Ethyl Ketone	15	U	15	3.2	ug/m3			10/24/17 20:11	10
cis-1,2-Dichloroethene	7.9	U	7.9	1.1	ug/m3			10/24/17 20:11	10
Chloroform	9.8	U	9.8	1.2	ug/m3			10/24/17 20:11	10
Tetrahydrofuran	4400	E	150	35	ug/m3			10/24/17 20:11	10
1,1,1-Trichloroethane	11	U	11	1.4	ug/m3			10/24/17 20:11	10
Cyclohexane	6.9	U	6.9	1.5	ug/m3			10/24/17 20:11	10
Carbon tetrachloride	13	U	13	0.69	ug/m3			10/24/17 20:11	10
2,2,4-Trimethylpentane	9.3	U	9.3	2.0	ug/m3			10/24/17 20:11	10
Benzene	68		6.4	0.89	ug/m3			10/24/17 20:11	10
1,2-Dichloroethane	8.1	U	8.1	1.4	ug/m3			10/24/17 20:11	10
n-Heptane	8.2	U	8.2	2.8	ug/m3			10/24/17 20:11	10
Trichloroethene	11	U	11	0.49	ug/m3			10/24/17 20:11	10
Methyl methacrylate	20	U	20	4.5	ug/m3			10/24/17 20:11	10
1,2-Dichloropropane	9.2	U	9.2	1.6	ug/m3			10/24/17 20:11	10
1,4-Dioxane	180	U	180	27	ug/m3			10/24/17 20:11	10
Bromodichloromethane	13	U	13	4.0	ug/m3			10/24/17 20:11	10
cis-1,3-Dichloropropene	9.1	U	9.1	1.6	ug/m3			10/24/17 20:11	10
methyl isobutyl ketone	20	U	20	2.7	ug/m3			10/24/17 20:11	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG3S-G-39882

Lab Sample ID: 200-40522-5

Date Collected: 10/17/17 17:39

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	7.5	U	7.5	1.3	ug/m3			10/24/17 20:11	10
trans-1,3-Dichloropropene	9.1	U	9.1	1.7	ug/m3			10/24/17 20:11	10
1,1,2-Trichloroethane	11	U	11	0.93	ug/m3			10/24/17 20:11	10
Tetrachloroethene	14	U	14	0.66	ug/m3			10/24/17 20:11	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	3.5	ug/m3			10/24/17 20:11	10
Dibromochloromethane	17	U	17	1.4	ug/m3			10/24/17 20:11	10
1,2-Dibromoethane	15	U	15	1.8	ug/m3			10/24/17 20:11	10
Chlorobenzene	9.2	U	9.2	1.2	ug/m3			10/24/17 20:11	10
Ethylbenzene	8.7	U	8.7	1.5	ug/m3			10/24/17 20:11	10
m,p-Xylene	22	U	22	3.3	ug/m3			10/24/17 20:11	10
Xylene, o-	8.7	U	8.7	1.7	ug/m3			10/24/17 20:11	10
Styrene	8.5	U	8.5	1.5	ug/m3			10/24/17 20:11	10
Bromoform	21	U	21	3.6	ug/m3			10/24/17 20:11	10
Cumene	24		9.8	1.9	ug/m3			10/24/17 20:11	10
1,1,2,2-Tetrachloroethane	14	U	14	1.8	ug/m3			10/24/17 20:11	10
n-Propylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 20:11	10
4-Ethyltoluene	9.8	U	9.8	2.0	ug/m3			10/24/17 20:11	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 20:11	10
2-Chlorotoluene	10	U	10	1.8	ug/m3			10/24/17 20:11	10
tert-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 20:11	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.8	ug/m3			10/24/17 20:11	10
sec-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 20:11	10
4-Isopropyltoluene	11	U	11	2.9	ug/m3			10/24/17 20:11	10
1,3-Dichlorobenzene	12	U	12	3.0	ug/m3			10/24/17 20:11	10
1,4-Dichlorobenzene	12	U	12	3.8	ug/m3			10/24/17 20:11	10
Benzyl chloride	10	U	10	3.5	ug/m3			10/24/17 20:11	10
n-Butylbenzene	11	U	11	3.7	ug/m3			10/24/17 20:11	10
1,2-Dichlorobenzene	12	U	12	2.7	ug/m3			10/24/17 20:11	10
1,2,4-Trichlorobenzene	37	U	37	14	ug/m3			10/24/17 20:11	10
Hexachlorobutadiene	21	U	21	6.8	ug/m3			10/24/17 20:11	10
Naphthalene	26	U	26	5.2	ug/m3			10/24/17 20:11	10

Client Sample ID: AGSG3D-G-39883

Lab Sample ID: 200-40522-6

Date Collected: 10/17/17 17:40

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.47	ppb v/v			10/24/17 21:04	10
Freon 22	5.0	U	5.0	2.0	ppb v/v			10/24/17 21:04	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.41	ppb v/v			10/24/17 21:04	10
Chloromethane	44		5.0	1.6	ppb v/v			10/24/17 21:04	10
n-Butane	32		5.0	0.46	ppb v/v			10/24/17 21:04	10
Vinyl chloride	2.0	U	2.0	0.18	ppb v/v			10/24/17 21:04	10
1,3-Butadiene	2.0	U	2.0	0.37	ppb v/v			10/24/17 21:04	10
Bromomethane	2.0	U	2.0	0.36	ppb v/v			10/24/17 21:04	10
Chloroethane	3.7	J	5.0	1.3	ppb v/v			10/24/17 21:04	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.22	ppb v/v			10/24/17 21:04	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG3D-G-39883

Lab Sample ID: 200-40522-6

Date Collected: 10/17/17 17:40

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	2.0	U	2.0	0.31	ppb v/v			10/24/17 21:04	10
Freon TF	2.0	U	2.0	0.27	ppb v/v			10/24/17 21:04	10
1,1-Dichloroethene	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:04	10
Acetone	100		50	13	ppb v/v			10/24/17 21:04	10
Isopropyl alcohol	5.5 J		50	1.3	ppb v/v			10/24/17 21:04	10
Carbon disulfide	140		5.0	0.28	ppb v/v			10/24/17 21:04	10
3-Chloropropene	5.0	U	5.0	0.63	ppb v/v			10/24/17 21:04	10
Methylene Chloride	5.0	U	5.0	0.68	ppb v/v			10/24/17 21:04	10
tert-Butyl alcohol	22 J		50	17	ppb v/v			10/24/17 21:04	10
Methyl tert-butyl ether	2.0	U	2.0	0.41	ppb v/v			10/24/17 21:04	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.50	ppb v/v			10/24/17 21:04	10
n-Hexane	0.83 J		2.0	0.46	ppb v/v			10/24/17 21:04	10
1,1-Dichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 21:04	10
Methyl Ethyl Ketone	5.0	U	5.0	1.1	ppb v/v			10/24/17 21:04	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.29	ppb v/v			10/24/17 21:04	10
Chloroform	2.0	U	2.0	0.25	ppb v/v			10/24/17 21:04	10
Tetrahydrofuran	4600 E		50	12	ppb v/v			10/24/17 21:04	10
1,1,1-Trichloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 21:04	10
Cyclohexane	2.0	U	2.0	0.45	ppb v/v			10/24/17 21:04	10
Carbon tetrachloride	0.96 J		2.0	0.11	ppb v/v			10/24/17 21:04	10
2,2,4-Trimethylpentane	2.6		2.0	0.43	ppb v/v			10/24/17 21:04	10
Benzene	100		2.0	0.28	ppb v/v			10/24/17 21:04	10
1,2-Dichloroethane	2.2		2.0	0.34	ppb v/v			10/24/17 21:04	10
n-Heptane	2.0	U	2.0	0.68	ppb v/v			10/24/17 21:04	10
Trichloroethene	2.0	U	2.0	0.091	ppb v/v			10/24/17 21:04	10
Methyl methacrylate	5.0	U	5.0	1.1	ppb v/v			10/24/17 21:04	10
1,2-Dichloropropane	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:04	10
1,4-Dioxane	50	U	50	7.6	ppb v/v			10/24/17 21:04	10
Bromodichloromethane	2.0	U	2.0	0.59	ppb v/v			10/24/17 21:04	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.36	ppb v/v			10/24/17 21:04	10
methyl isobutyl ketone	5.0	U	5.0	0.65	ppb v/v			10/24/17 21:04	10
Toluene	91		2.0	0.35	ppb v/v			10/24/17 21:04	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.38	ppb v/v			10/24/17 21:04	10
1,1,2-Trichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 21:04	10
Tetrachloroethene	2.0	U	2.0	0.098	ppb v/v			10/24/17 21:04	10
Methyl Butyl Ketone (2-Hexanone)	2.3 J		5.0	0.86	ppb v/v			10/24/17 21:04	10
Dibromochloromethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 21:04	10
1,2-Dibromoethane	2.0	U	2.0	0.23	ppb v/v			10/24/17 21:04	10
Chlorobenzene	2.0	U	2.0	0.25	ppb v/v			10/24/17 21:04	10
Ethylbenzene	0.61 J		2.0	0.34	ppb v/v			10/24/17 21:04	10
m,p-Xylene	1.3 J		5.0	0.77	ppb v/v			10/24/17 21:04	10
Xylene, o-	0.64 J		2.0	0.40	ppb v/v			10/24/17 21:04	10
Styrene	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:04	10
Bromoform	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:04	10
Cumene	7.0		2.0	0.39	ppb v/v			10/24/17 21:04	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 21:04	10
n-Propylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 21:04	10
4-Ethyltoluene	2.0	U	2.0	0.40	ppb v/v			10/24/17 21:04	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG3D-G-39883

Lab Sample ID: 200-40522-6

Date Collected: 10/17/17 17:40

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 21:04	10
2-Chlorotoluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:04	10
tert-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 21:04	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.57	ppb v/v			10/24/17 21:04	10
sec-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 21:04	10
4-Isopropyltoluene	2.0	U	2.0	0.52	ppb v/v			10/24/17 21:04	10
1,3-Dichlorobenzene	2.0	U	2.0	0.50	ppb v/v			10/24/17 21:04	10
1,4-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			10/24/17 21:04	10
Benzyl chloride	2.0	U	2.0	0.67	ppb v/v			10/24/17 21:04	10
n-Butylbenzene	2.0	U	2.0	0.68	ppb v/v			10/24/17 21:04	10
1,2-Dichlorobenzene	2.0	U	2.0	0.45	ppb v/v			10/24/17 21:04	10
1,2,4-Trichlorobenzene	5.0	U	5.0	1.9	ppb v/v			10/24/17 21:04	10
Hexachlorobutadiene	2.0	U	2.0	0.64	ppb v/v			10/24/17 21:04	10
Naphthalene	5.0	U	5.0	1.0	ppb v/v			10/24/17 21:04	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	2.3	ug/m3			10/24/17 21:04	10
Freon 22	18	U	18	7.1	ug/m3			10/24/17 21:04	10
1,2-Dichlorotetrafluoroethane	14	U	14	2.9	ug/m3			10/24/17 21:04	10
Chloromethane	90		10	3.3	ug/m3			10/24/17 21:04	10
n-Butane	76		12	1.1	ug/m3			10/24/17 21:04	10
Vinyl chloride	5.1	U	5.1	0.46	ug/m3			10/24/17 21:04	10
1,3-Butadiene	4.4	U	4.4	0.82	ug/m3			10/24/17 21:04	10
Bromomethane	7.8	U	7.8	1.4	ug/m3			10/24/17 21:04	10
Chloroethane	9.7	J	13	3.4	ug/m3			10/24/17 21:04	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.96	ug/m3			10/24/17 21:04	10
Trichlorofluoromethane	11	U	11	1.7	ug/m3			10/24/17 21:04	10
Freon TF	15	U	15	2.1	ug/m3			10/24/17 21:04	10
1,1-Dichloroethene	7.9	U	7.9	1.4	ug/m3			10/24/17 21:04	10
Acetone	240		120	31	ug/m3			10/24/17 21:04	10
Isopropyl alcohol	13	J	120	3.2	ug/m3			10/24/17 21:04	10
Carbon disulfide	430		16	0.87	ug/m3			10/24/17 21:04	10
3-Chloropropene	16	U	16	2.0	ug/m3			10/24/17 21:04	10
Methylene Chloride	17	U	17	2.4	ug/m3			10/24/17 21:04	10
tert-Butyl alcohol	67	J	150	52	ug/m3			10/24/17 21:04	10
Methyl tert-butyl ether	7.2	U	7.2	1.5	ug/m3			10/24/17 21:04	10
trans-1,2-Dichloroethene	7.9	U	7.9	2.0	ug/m3			10/24/17 21:04	10
n-Hexane	2.9	J	7.0	1.6	ug/m3			10/24/17 21:04	10
1,1-Dichloroethane	8.1	U	8.1	0.69	ug/m3			10/24/17 21:04	10
Methyl Ethyl Ketone	15	U	15	3.2	ug/m3			10/24/17 21:04	10
cis-1,2-Dichloroethene	7.9	U	7.9	1.1	ug/m3			10/24/17 21:04	10
Chloroform	9.8	U	9.8	1.2	ug/m3			10/24/17 21:04	10
Tetrahydrofuran	14000	E	150	35	ug/m3			10/24/17 21:04	10
1,1,1-Trichloroethane	11	U	11	1.4	ug/m3			10/24/17 21:04	10
Cyclohexane	6.9	U	6.9	1.5	ug/m3			10/24/17 21:04	10
Carbon tetrachloride	6.0	J	13	0.69	ug/m3			10/24/17 21:04	10
2,2,4-Trimethylpentane	12		9.3	2.0	ug/m3			10/24/17 21:04	10
Benzene	320		6.4	0.89	ug/m3			10/24/17 21:04	10
1,2-Dichloroethane	8.9		8.1	1.4	ug/m3			10/24/17 21:04	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG3D-G-39883

Lab Sample ID: 200-40522-6

Date Collected: 10/17/17 17:40

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	8.2	U	8.2	2.8	ug/m3			10/24/17 21:04	10
Trichloroethene	11	U	11	0.49	ug/m3			10/24/17 21:04	10
Methyl methacrylate	20	U	20	4.5	ug/m3			10/24/17 21:04	10
1,2-Dichloropropane	9.2	U	9.2	1.6	ug/m3			10/24/17 21:04	10
1,4-Dioxane	180	U	180	27	ug/m3			10/24/17 21:04	10
Bromodichloromethane	13	U	13	4.0	ug/m3			10/24/17 21:04	10
cis-1,3-Dichloropropene	9.1	U	9.1	1.6	ug/m3			10/24/17 21:04	10
methyl isobutyl ketone	20	U	20	2.7	ug/m3			10/24/17 21:04	10
Toluene	340		7.5	1.3	ug/m3			10/24/17 21:04	10
trans-1,3-Dichloropropene	9.1	U	9.1	1.7	ug/m3			10/24/17 21:04	10
1,1,2-Trichloroethane	11	U	11	0.93	ug/m3			10/24/17 21:04	10
Tetrachloroethene	14	U	14	0.66	ug/m3			10/24/17 21:04	10
Methyl Butyl Ketone (2-Hexanone)	9.4 J		20	3.5	ug/m3			10/24/17 21:04	10
Dibromochloromethane	17	U	17	1.4	ug/m3			10/24/17 21:04	10
1,2-Dibromoethane	15	U	15	1.8	ug/m3			10/24/17 21:04	10
Chlorobenzene	9.2	U	9.2	1.2	ug/m3			10/24/17 21:04	10
Ethylbenzene	2.6 J		8.7	1.5	ug/m3			10/24/17 21:04	10
m,p-Xylene	5.5 J		22	3.3	ug/m3			10/24/17 21:04	10
Xylene, o-	2.8 J		8.7	1.7	ug/m3			10/24/17 21:04	10
Styrene	8.5	U	8.5	1.5	ug/m3			10/24/17 21:04	10
Bromoform	21	U	21	3.6	ug/m3			10/24/17 21:04	10
Cumene	34		9.8	1.9	ug/m3			10/24/17 21:04	10
1,1,2,2-Tetrachloroethane	14	U	14	1.8	ug/m3			10/24/17 21:04	10
n-Propylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 21:04	10
4-Ethyltoluene	9.8	U	9.8	2.0	ug/m3			10/24/17 21:04	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 21:04	10
2-Chlorotoluene	10	U	10	1.8	ug/m3			10/24/17 21:04	10
tert-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 21:04	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.8	ug/m3			10/24/17 21:04	10
sec-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 21:04	10
4-Isopropyltoluene	11	U	11	2.9	ug/m3			10/24/17 21:04	10
1,3-Dichlorobenzene	12	U	12	3.0	ug/m3			10/24/17 21:04	10
1,4-Dichlorobenzene	12	U	12	3.8	ug/m3			10/24/17 21:04	10
Benzyl chloride	10	U	10	3.5	ug/m3			10/24/17 21:04	10
n-Butylbenzene	11	U	11	3.7	ug/m3			10/24/17 21:04	10
1,2-Dichlorobenzene	12	U	12	2.7	ug/m3			10/24/17 21:04	10
1,2,4-Trichlorobenzene	37	U	37	14	ug/m3			10/24/17 21:04	10
Hexachlorobutadiene	21	U	21	6.8	ug/m3			10/24/17 21:04	10
Naphthalene	26	U	26	5.2	ug/m3			10/24/17 21:04	10

Client Sample ID: AGSG2DDUP-G-39884

Lab Sample ID: 200-40522-7

Date Collected: 10/17/17 17:52

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.47	ppb v/v			10/24/17 21:58	10
Freon 22	5.0	U	5.0	2.0	ppb v/v			10/24/17 21:58	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG2DDUP-G-39884

Lab Sample ID: 200-40522-7

Date Collected: 10/17/17 17:52

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.41	ppb v/v			10/24/17 21:58	10
Chloromethane	5.0	U	5.0	1.6	ppb v/v			10/24/17 21:58	10
n-Butane	5.0	U	5.0	0.46	ppb v/v			10/24/17 21:58	10
Vinyl chloride	2.0	U	2.0	0.18	ppb v/v			10/24/17 21:58	10
1,3-Butadiene	2.0	U	2.0	0.37	ppb v/v			10/24/17 21:58	10
Bromomethane	2.0	U	2.0	0.36	ppb v/v			10/24/17 21:58	10
Chloroethane	5.0	U	5.0	1.3	ppb v/v			10/24/17 21:58	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.22	ppb v/v			10/24/17 21:58	10
Trichlorofluoromethane	2.0	U	2.0	0.31	ppb v/v			10/24/17 21:58	10
Freon TF	2.0	U	2.0	0.27	ppb v/v			10/24/17 21:58	10
1,1-Dichloroethene	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:58	10
Acetone	14	J	50	13	ppb v/v			10/24/17 21:58	10
Isopropyl alcohol	50	U	50	1.3	ppb v/v			10/24/17 21:58	10
Carbon disulfide	5.0	U	5.0	0.28	ppb v/v			10/24/17 21:58	10
3-Chloropropene	5.0	U	5.0	0.63	ppb v/v			10/24/17 21:58	10
Methylene Chloride	5.0	U	5.0	0.68	ppb v/v			10/24/17 21:58	10
tert-Butyl alcohol	50	U	50	17	ppb v/v			10/24/17 21:58	10
Methyl tert-butyl ether	2.0	U	2.0	0.41	ppb v/v			10/24/17 21:58	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.50	ppb v/v			10/24/17 21:58	10
n-Hexane	2.0	U	2.0	0.46	ppb v/v			10/24/17 21:58	10
1,1-Dichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 21:58	10
Methyl Ethyl Ketone	7.6		5.0	1.1	ppb v/v			10/24/17 21:58	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.29	ppb v/v			10/24/17 21:58	10
Chloroform	2.0	U	2.0	0.25	ppb v/v			10/24/17 21:58	10
Tetrahydrofuran	29	J	50	12	ppb v/v			10/24/17 21:58	10
1,1,1-Trichloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 21:58	10
Cyclohexane	2.0	U	2.0	0.45	ppb v/v			10/24/17 21:58	10
Carbon tetrachloride	2.0	U	2.0	0.11	ppb v/v			10/24/17 21:58	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.43	ppb v/v			10/24/17 21:58	10
Benzene	0.72	J	2.0	0.28	ppb v/v			10/24/17 21:58	10
1,2-Dichloroethane	2.0	U	2.0	0.34	ppb v/v			10/24/17 21:58	10
n-Heptane	2.0	U	2.0	0.68	ppb v/v			10/24/17 21:58	10
Trichloroethene	0.32	J	2.0	0.091	ppb v/v			10/24/17 21:58	10
Methyl methacrylate	5.0	U	5.0	1.1	ppb v/v			10/24/17 21:58	10
1,2-Dichloropropane	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:58	10
1,4-Dioxane	50	U	50	7.6	ppb v/v			10/24/17 21:58	10
Bromodichloromethane	2.0	U	2.0	0.59	ppb v/v			10/24/17 21:58	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.36	ppb v/v			10/24/17 21:58	10
methyl isobutyl ketone	5.0	U	5.0	0.65	ppb v/v			10/24/17 21:58	10
Toluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:58	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.38	ppb v/v			10/24/17 21:58	10
1,1,2-Trichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 21:58	10
Tetrachloroethene	2.0	U	2.0	0.098	ppb v/v			10/24/17 21:58	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	0.86	ppb v/v			10/24/17 21:58	10
Dibromochloromethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 21:58	10
1,2-Dibromoethane	2.0	U	2.0	0.23	ppb v/v			10/24/17 21:58	10
Chlorobenzene	2.0	U	2.0	0.25	ppb v/v			10/24/17 21:58	10
Ethylbenzene	2.0	U	2.0	0.34	ppb v/v			10/24/17 21:58	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG2DDUP-G-39884

Lab Sample ID: 200-40522-7

Date Collected: 10/17/17 17:52

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	5.0	U	5.0	0.77	ppb v/v			10/24/17 21:58	10
Xylene, o-	2.0	U	2.0	0.40	ppb v/v			10/24/17 21:58	10
Styrene	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:58	10
Bromoform	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:58	10
Cumene	2.0	U	2.0	0.39	ppb v/v			10/24/17 21:58	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 21:58	10
n-Propylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 21:58	10
4-Ethyltoluene	2.0	U	2.0	0.40	ppb v/v			10/24/17 21:58	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 21:58	10
2-Chlorotoluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 21:58	10
tert-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 21:58	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.57	ppb v/v			10/24/17 21:58	10
sec-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 21:58	10
4-Isopropyltoluene	2.0	U	2.0	0.52	ppb v/v			10/24/17 21:58	10
1,3-Dichlorobenzene	2.0	U	2.0	0.50	ppb v/v			10/24/17 21:58	10
1,4-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			10/24/17 21:58	10
Benzyl chloride	2.0	U	2.0	0.67	ppb v/v			10/24/17 21:58	10
n-Butylbenzene	2.0	U	2.0	0.68	ppb v/v			10/24/17 21:58	10
1,2-Dichlorobenzene	2.0	U	2.0	0.45	ppb v/v			10/24/17 21:58	10
1,2,4-Trichlorobenzene	5.0	U	5.0	1.9	ppb v/v			10/24/17 21:58	10
Hexachlorobutadiene	2.0	U	2.0	0.64	ppb v/v			10/24/17 21:58	10
Naphthalene	5.0	U	5.0	1.0	ppb v/v			10/24/17 21:58	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	2.3	ug/m3			10/24/17 21:58	10
Freon 22	18	U	18	7.1	ug/m3			10/24/17 21:58	10
1,2-Dichlorotetrafluoroethane	14	U	14	2.9	ug/m3			10/24/17 21:58	10
Chloromethane	10	U	10	3.3	ug/m3			10/24/17 21:58	10
n-Butane	12	U	12	1.1	ug/m3			10/24/17 21:58	10
Vinyl chloride	5.1	U	5.1	0.46	ug/m3			10/24/17 21:58	10
1,3-Butadiene	4.4	U	4.4	0.82	ug/m3			10/24/17 21:58	10
Bromomethane	7.8	U	7.8	1.4	ug/m3			10/24/17 21:58	10
Chloroethane	13	U	13	3.4	ug/m3			10/24/17 21:58	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.96	ug/m3			10/24/17 21:58	10
Trichlorofluoromethane	11	U	11	1.7	ug/m3			10/24/17 21:58	10
Freon TF	15	U	15	2.1	ug/m3			10/24/17 21:58	10
1,1-Dichloroethene	7.9	U	7.9	1.4	ug/m3			10/24/17 21:58	10
Acetone	34	J	120	31	ug/m3			10/24/17 21:58	10
Isopropyl alcohol	120	U	120	3.2	ug/m3			10/24/17 21:58	10
Carbon disulfide	16	U	16	0.87	ug/m3			10/24/17 21:58	10
3-Chloropropene	16	U	16	2.0	ug/m3			10/24/17 21:58	10
Methylene Chloride	17	U	17	2.4	ug/m3			10/24/17 21:58	10
tert-Butyl alcohol	150	U	150	52	ug/m3			10/24/17 21:58	10
Methyl tert-butyl ether	7.2	U	7.2	1.5	ug/m3			10/24/17 21:58	10
trans-1,2-Dichloroethene	7.9	U	7.9	2.0	ug/m3			10/24/17 21:58	10
n-Hexane	7.0	U	7.0	1.6	ug/m3			10/24/17 21:58	10
1,1-Dichloroethane	8.1	U	8.1	0.69	ug/m3			10/24/17 21:58	10
Methyl Ethyl Ketone	22		15	3.2	ug/m3			10/24/17 21:58	10
cis-1,2-Dichloroethene	7.9	U	7.9	1.1	ug/m3			10/24/17 21:58	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG2DDUP-G-39884

Lab Sample ID: 200-40522-7

Date Collected: 10/17/17 17:52

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	9.8	U	9.8	1.2	ug/m3			10/24/17 21:58	10
Tetrahydrofuran	84	J	150	35	ug/m3			10/24/17 21:58	10
1,1,1-Trichloroethane	11	U	11	1.4	ug/m3			10/24/17 21:58	10
Cyclohexane	6.9	U	6.9	1.5	ug/m3			10/24/17 21:58	10
Carbon tetrachloride	13	U	13	0.69	ug/m3			10/24/17 21:58	10
2,2,4-Trimethylpentane	9.3	U	9.3	2.0	ug/m3			10/24/17 21:58	10
Benzene	2.3	J	6.4	0.89	ug/m3			10/24/17 21:58	10
1,2-Dichloroethane	8.1	U	8.1	1.4	ug/m3			10/24/17 21:58	10
n-Heptane	8.2	U	8.2	2.8	ug/m3			10/24/17 21:58	10
Trichloroethene	1.7	J	11	0.49	ug/m3			10/24/17 21:58	10
Methyl methacrylate	20	U	20	4.5	ug/m3			10/24/17 21:58	10
1,2-Dichloropropane	9.2	U	9.2	1.6	ug/m3			10/24/17 21:58	10
1,4-Dioxane	180	U	180	27	ug/m3			10/24/17 21:58	10
Bromodichloromethane	13	U	13	4.0	ug/m3			10/24/17 21:58	10
cis-1,3-Dichloropropene	9.1	U	9.1	1.6	ug/m3			10/24/17 21:58	10
methyl isobutyl ketone	20	U	20	2.7	ug/m3			10/24/17 21:58	10
Toluene	7.5	U	7.5	1.3	ug/m3			10/24/17 21:58	10
trans-1,3-Dichloropropene	9.1	U	9.1	1.7	ug/m3			10/24/17 21:58	10
1,1,2-Trichloroethane	11	U	11	0.93	ug/m3			10/24/17 21:58	10
Tetrachloroethene	14	U	14	0.66	ug/m3			10/24/17 21:58	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	3.5	ug/m3			10/24/17 21:58	10
Dibromochloromethane	17	U	17	1.4	ug/m3			10/24/17 21:58	10
1,2-Dibromoethane	15	U	15	1.8	ug/m3			10/24/17 21:58	10
Chlorobenzene	9.2	U	9.2	1.2	ug/m3			10/24/17 21:58	10
Ethylbenzene	8.7	U	8.7	1.5	ug/m3			10/24/17 21:58	10
m,p-Xylene	22	U	22	3.3	ug/m3			10/24/17 21:58	10
Xylene, o-	8.7	U	8.7	1.7	ug/m3			10/24/17 21:58	10
Styrene	8.5	U	8.5	1.5	ug/m3			10/24/17 21:58	10
Bromoform	21	U	21	3.6	ug/m3			10/24/17 21:58	10
Cumene	9.8	U	9.8	1.9	ug/m3			10/24/17 21:58	10
1,1,2,2-Tetrachloroethane	14	U	14	1.8	ug/m3			10/24/17 21:58	10
n-Propylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 21:58	10
4-Ethyltoluene	9.8	U	9.8	2.0	ug/m3			10/24/17 21:58	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 21:58	10
2-Chlorotoluene	10	U	10	1.8	ug/m3			10/24/17 21:58	10
tert-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 21:58	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.8	ug/m3			10/24/17 21:58	10
sec-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 21:58	10
4-Isopropyltoluene	11	U	11	2.9	ug/m3			10/24/17 21:58	10
1,3-Dichlorobenzene	12	U	12	3.0	ug/m3			10/24/17 21:58	10
1,4-Dichlorobenzene	12	U	12	3.8	ug/m3			10/24/17 21:58	10
Benzyl chloride	10	U	10	3.5	ug/m3			10/24/17 21:58	10
n-Butylbenzene	11	U	11	3.7	ug/m3			10/24/17 21:58	10
1,2-Dichlorobenzene	12	U	12	2.7	ug/m3			10/24/17 21:58	10
1,2,4-Trichlorobenzene	37	U	37	14	ug/m3			10/24/17 21:58	10
Hexachlorobutadiene	21	U	21	6.8	ug/m3			10/24/17 21:58	10
Naphthalene	26	U	26	5.2	ug/m3			10/24/17 21:58	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGBKGD-G-39885

Lab Sample ID: 200-40522-8

Date Collected: 10/17/17 18:00

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.47	ppb v/v			10/24/17 22:51	10
Freon 22	5.0	U	5.0	2.0	ppb v/v			10/24/17 22:51	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.41	ppb v/v			10/24/17 22:51	10
Chloromethane	5.0	U	5.0	1.6	ppb v/v			10/24/17 22:51	10
n-Butane	5.0	U	5.0	0.46	ppb v/v			10/24/17 22:51	10
Vinyl chloride	2.0	U	2.0	0.18	ppb v/v			10/24/17 22:51	10
1,3-Butadiene	2.0	U	2.0	0.37	ppb v/v			10/24/17 22:51	10
Bromomethane	2.0	U	2.0	0.36	ppb v/v			10/24/17 22:51	10
Chloroethane	5.0	U	5.0	1.3	ppb v/v			10/24/17 22:51	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.22	ppb v/v			10/24/17 22:51	10
Trichlorofluoromethane	2.0	U	2.0	0.31	ppb v/v			10/24/17 22:51	10
Freon TF	2.0	U	2.0	0.27	ppb v/v			10/24/17 22:51	10
1,1-Dichloroethene	2.0	U	2.0	0.35	ppb v/v			10/24/17 22:51	10
Acetone	58		50	13	ppb v/v			10/24/17 22:51	10
Isopropyl alcohol	50	U	50	1.3	ppb v/v			10/24/17 22:51	10
Carbon disulfide	5.0	U	5.0	0.28	ppb v/v			10/24/17 22:51	10
3-Chloropropene	5.0	U	5.0	0.63	ppb v/v			10/24/17 22:51	10
Methylene Chloride	5.0	U	5.0	0.68	ppb v/v			10/24/17 22:51	10
tert-Butyl alcohol	50	U	50	17	ppb v/v			10/24/17 22:51	10
Methyl tert-butyl ether	2.0	U	2.0	0.41	ppb v/v			10/24/17 22:51	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.50	ppb v/v			10/24/17 22:51	10
n-Hexane	2.0	U	2.0	0.46	ppb v/v			10/24/17 22:51	10
1,1-Dichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 22:51	10
Methyl Ethyl Ketone	17		5.0	1.1	ppb v/v			10/24/17 22:51	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.29	ppb v/v			10/24/17 22:51	10
Chloroform	2.0	U	2.0	0.25	ppb v/v			10/24/17 22:51	10
Tetrahydrofuran	32 J		50	12	ppb v/v			10/24/17 22:51	10
1,1,1-Trichloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 22:51	10
Cyclohexane	2.0	U	2.0	0.45	ppb v/v			10/24/17 22:51	10
Carbon tetrachloride	2.0	U	2.0	0.11	ppb v/v			10/24/17 22:51	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.43	ppb v/v			10/24/17 22:51	10
Benzene	2.0	U	2.0	0.28	ppb v/v			10/24/17 22:51	10
1,2-Dichloroethane	2.0	U	2.0	0.34	ppb v/v			10/24/17 22:51	10
n-Heptane	2.0	U	2.0	0.68	ppb v/v			10/24/17 22:51	10
Trichloroethene	2.0	U	2.0	0.091	ppb v/v			10/24/17 22:51	10
Methyl methacrylate	5.0	U	5.0	1.1	ppb v/v			10/24/17 22:51	10
1,2-Dichloropropane	2.0	U	2.0	0.35	ppb v/v			10/24/17 22:51	10
1,4-Dioxane	50	U	50	7.6	ppb v/v			10/24/17 22:51	10
Bromodichloromethane	2.0	U	2.0	0.59	ppb v/v			10/24/17 22:51	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.36	ppb v/v			10/24/17 22:51	10
methyl isobutyl ketone	5.0	U	5.0	0.65	ppb v/v			10/24/17 22:51	10
Toluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 22:51	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.38	ppb v/v			10/24/17 22:51	10
1,1,2-Trichloroethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 22:51	10
Tetrachloroethene	2.0	U	2.0	0.098	ppb v/v			10/24/17 22:51	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	0.86	ppb v/v			10/24/17 22:51	10
Dibromochloromethane	2.0	U	2.0	0.17	ppb v/v			10/24/17 22:51	10
1,2-Dibromoethane	2.0	U	2.0	0.23	ppb v/v			10/24/17 22:51	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGBKGD-G-39885

Lab Sample ID: 200-40522-8

Date Collected: 10/17/17 18:00

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	2.0	U	2.0	0.25	ppb v/v			10/24/17 22:51	10
Ethylbenzene	2.0	U	2.0	0.34	ppb v/v			10/24/17 22:51	10
m,p-Xylene	5.0	U	5.0	0.77	ppb v/v			10/24/17 22:51	10
Xylene, o-	2.0	U	2.0	0.40	ppb v/v			10/24/17 22:51	10
Styrene	2.0	U	2.0	0.35	ppb v/v			10/24/17 22:51	10
Bromoform	2.0	U	2.0	0.35	ppb v/v			10/24/17 22:51	10
Cumene	2.0	U	2.0	0.39	ppb v/v			10/24/17 22:51	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.26	ppb v/v			10/24/17 22:51	10
n-Propylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 22:51	10
4-Ethyltoluene	2.0	U	2.0	0.40	ppb v/v			10/24/17 22:51	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.40	ppb v/v			10/24/17 22:51	10
2-Chlorotoluene	2.0	U	2.0	0.35	ppb v/v			10/24/17 22:51	10
tert-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 22:51	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.57	ppb v/v			10/24/17 22:51	10
sec-Butylbenzene	2.0	U	2.0	0.37	ppb v/v			10/24/17 22:51	10
4-Isopropyltoluene	2.0	U	2.0	0.52	ppb v/v			10/24/17 22:51	10
1,3-Dichlorobenzene	2.0	U	2.0	0.50	ppb v/v			10/24/17 22:51	10
1,4-Dichlorobenzene	2.0	U	2.0	0.63	ppb v/v			10/24/17 22:51	10
Benzyl chloride	2.0	U	2.0	0.67	ppb v/v			10/24/17 22:51	10
n-Butylbenzene	2.0	U	2.0	0.68	ppb v/v			10/24/17 22:51	10
1,2-Dichlorobenzene	2.0	U	2.0	0.45	ppb v/v			10/24/17 22:51	10
1,2,4-Trichlorobenzene	5.0	U	5.0	1.9	ppb v/v			10/24/17 22:51	10
Hexachlorobutadiene	2.0	U	2.0	0.64	ppb v/v			10/24/17 22:51	10
Naphthalene	5.0	U	5.0	1.0	ppb v/v			10/24/17 22:51	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	2.3	ug/m3			10/24/17 22:51	10
Freon 22	18	U	18	7.1	ug/m3			10/24/17 22:51	10
1,2-Dichlorotetrafluoroethane	14	U	14	2.9	ug/m3			10/24/17 22:51	10
Chloromethane	10	U	10	3.3	ug/m3			10/24/17 22:51	10
n-Butane	12	U	12	1.1	ug/m3			10/24/17 22:51	10
Vinyl chloride	5.1	U	5.1	0.46	ug/m3			10/24/17 22:51	10
1,3-Butadiene	4.4	U	4.4	0.82	ug/m3			10/24/17 22:51	10
Bromomethane	7.8	U	7.8	1.4	ug/m3			10/24/17 22:51	10
Chloroethane	13	U	13	3.4	ug/m3			10/24/17 22:51	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.96	ug/m3			10/24/17 22:51	10
Trichlorofluoromethane	11	U	11	1.7	ug/m3			10/24/17 22:51	10
Freon TF	15	U	15	2.1	ug/m3			10/24/17 22:51	10
1,1-Dichloroethene	7.9	U	7.9	1.4	ug/m3			10/24/17 22:51	10
Acetone	140		120	31	ug/m3			10/24/17 22:51	10
Isopropyl alcohol	120	U	120	3.2	ug/m3			10/24/17 22:51	10
Carbon disulfide	16	U	16	0.87	ug/m3			10/24/17 22:51	10
3-Chloropropene	16	U	16	2.0	ug/m3			10/24/17 22:51	10
Methylene Chloride	17	U	17	2.4	ug/m3			10/24/17 22:51	10
tert-Butyl alcohol	150	U	150	52	ug/m3			10/24/17 22:51	10
Methyl tert-butyl ether	7.2	U	7.2	1.5	ug/m3			10/24/17 22:51	10
trans-1,2-Dichloroethene	7.9	U	7.9	2.0	ug/m3			10/24/17 22:51	10
n-Hexane	7.0	U	7.0	1.6	ug/m3			10/24/17 22:51	10
1,1-Dichloroethane	8.1	U	8.1	0.69	ug/m3			10/24/17 22:51	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGBKGD-G-39885

Lab Sample ID: 200-40522-8

Date Collected: 10/17/17 18:00

Matrix: Air

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	50		15	3.2	ug/m3			10/24/17 22:51	10
cis-1,2-Dichloroethene	7.9	U	7.9	1.1	ug/m3			10/24/17 22:51	10
Chloroform	9.8	U	9.8	1.2	ug/m3			10/24/17 22:51	10
Tetrahydrofuran	93	J	150	35	ug/m3			10/24/17 22:51	10
1,1,1-Trichloroethane	11	U	11	1.4	ug/m3			10/24/17 22:51	10
Cyclohexane	6.9	U	6.9	1.5	ug/m3			10/24/17 22:51	10
Carbon tetrachloride	13	U	13	0.69	ug/m3			10/24/17 22:51	10
2,2,4-Trimethylpentane	9.3	U	9.3	2.0	ug/m3			10/24/17 22:51	10
Benzene	6.4	U	6.4	0.89	ug/m3			10/24/17 22:51	10
1,2-Dichloroethane	8.1	U	8.1	1.4	ug/m3			10/24/17 22:51	10
n-Heptane	8.2	U	8.2	2.8	ug/m3			10/24/17 22:51	10
Trichloroethene	11	U	11	0.49	ug/m3			10/24/17 22:51	10
Methyl methacrylate	20	U	20	4.5	ug/m3			10/24/17 22:51	10
1,2-Dichloropropane	9.2	U	9.2	1.6	ug/m3			10/24/17 22:51	10
1,4-Dioxane	180	U	180	27	ug/m3			10/24/17 22:51	10
Bromodichloromethane	13	U	13	4.0	ug/m3			10/24/17 22:51	10
cis-1,3-Dichloropropene	9.1	U	9.1	1.6	ug/m3			10/24/17 22:51	10
methyl isobutyl ketone	20	U	20	2.7	ug/m3			10/24/17 22:51	10
Toluene	7.5	U	7.5	1.3	ug/m3			10/24/17 22:51	10
trans-1,3-Dichloropropene	9.1	U	9.1	1.7	ug/m3			10/24/17 22:51	10
1,1,2-Trichloroethane	11	U	11	0.93	ug/m3			10/24/17 22:51	10
Tetrachloroethene	14	U	14	0.66	ug/m3			10/24/17 22:51	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	3.5	ug/m3			10/24/17 22:51	10
Dibromochloromethane	17	U	17	1.4	ug/m3			10/24/17 22:51	10
1,2-Dibromoethane	15	U	15	1.8	ug/m3			10/24/17 22:51	10
Chlorobenzene	9.2	U	9.2	1.2	ug/m3			10/24/17 22:51	10
Ethylbenzene	8.7	U	8.7	1.5	ug/m3			10/24/17 22:51	10
m,p-Xylene	22	U	22	3.3	ug/m3			10/24/17 22:51	10
Xylene, o-	8.7	U	8.7	1.7	ug/m3			10/24/17 22:51	10
Styrene	8.5	U	8.5	1.5	ug/m3			10/24/17 22:51	10
Bromoform	21	U	21	3.6	ug/m3			10/24/17 22:51	10
Cumene	9.8	U	9.8	1.9	ug/m3			10/24/17 22:51	10
1,1,2,2-Tetrachloroethane	14	U	14	1.8	ug/m3			10/24/17 22:51	10
n-Propylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 22:51	10
4-Ethyltoluene	9.8	U	9.8	2.0	ug/m3			10/24/17 22:51	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.0	ug/m3			10/24/17 22:51	10
2-Chlorotoluene	10	U	10	1.8	ug/m3			10/24/17 22:51	10
tert-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 22:51	10
1,2,4-Trimethylbenzene	9.8	U	9.8	2.8	ug/m3			10/24/17 22:51	10
sec-Butylbenzene	11	U	11	2.0	ug/m3			10/24/17 22:51	10
4-Isopropyltoluene	11	U	11	2.9	ug/m3			10/24/17 22:51	10
1,3-Dichlorobenzene	12	U	12	3.0	ug/m3			10/24/17 22:51	10
1,4-Dichlorobenzene	12	U	12	3.8	ug/m3			10/24/17 22:51	10
Benzyl chloride	10	U	10	3.5	ug/m3			10/24/17 22:51	10
n-Butylbenzene	11	U	11	3.7	ug/m3			10/24/17 22:51	10
1,2-Dichlorobenzene	12	U	12	2.7	ug/m3			10/24/17 22:51	10
1,2,4-Trichlorobenzene	37	U	37	14	ug/m3			10/24/17 22:51	10
Hexachlorobutadiene	21	U	21	6.8	ug/m3			10/24/17 22:51	10

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGBKGD-G-39885

Date Collected: 10/17/17 18:00

Date Received: 10/19/17 10:15

Sample Container: Summa Canister 1L

Lab Sample ID: 200-40522-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	26	U	26	5.2	ug/m3			10/24/17 22:51	10

Default Detection Limits

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	0.20	0.026	ppb v/v	TO-15
1,1,1-Trichloroethane	1.1	0.14	ug/m3	TO-15
1,1,2,2-Tetrachloroethane	0.20	0.026	ppb v/v	TO-15
1,1,2,2-Tetrachloroethane	1.4	0.18	ug/m3	TO-15
1,1,2-Trichloroethane	0.20	0.017	ppb v/v	TO-15
1,1,2-Trichloroethane	1.1	0.093	ug/m3	TO-15
1,1-Dichloroethane	0.20	0.017	ppb v/v	TO-15
1,1-Dichloroethane	0.81	0.069	ug/m3	TO-15
1,1-Dichloroethene	0.20	0.035	ppb v/v	TO-15
1,1-Dichloroethene	0.79	0.14	ug/m3	TO-15
1,2,4-Trichlorobenzene	0.50	0.19	ppb v/v	TO-15
1,2,4-Trichlorobenzene	3.7	1.4	ug/m3	TO-15
1,2,4-Trimethylbenzene	0.20	0.057	ppb v/v	TO-15
1,2,4-Trimethylbenzene	0.98	0.28	ug/m3	TO-15
1,2-Dibromoethane	0.20	0.023	ppb v/v	TO-15
1,2-Dibromoethane	1.5	0.18	ug/m3	TO-15
1,2-Dichlorobenzene	0.20	0.045	ppb v/v	TO-15
1,2-Dichlorobenzene	1.2	0.27	ug/m3	TO-15
1,2-Dichloroethane	0.20	0.034	ppb v/v	TO-15
1,2-Dichloroethane	0.81	0.14	ug/m3	TO-15
1,2-Dichloropropane	0.20	0.035	ppb v/v	TO-15
1,2-Dichloropropane	0.92	0.16	ug/m3	TO-15
1,2-Dichlorotetrafluoroethane	0.20	0.041	ppb v/v	TO-15
1,2-Dichlorotetrafluoroethane	1.4	0.29	ug/m3	TO-15
1,3,5-Trimethylbenzene	0.20	0.040	ppb v/v	TO-15
1,3,5-Trimethylbenzene	0.98	0.20	ug/m3	TO-15
1,3-Butadiene	0.20	0.037	ppb v/v	TO-15
1,3-Butadiene	0.44	0.082	ug/m3	TO-15
1,3-Dichlorobenzene	0.20	0.050	ppb v/v	TO-15
1,3-Dichlorobenzene	1.2	0.30	ug/m3	TO-15
1,4-Dichlorobenzene	0.20	0.063	ppb v/v	TO-15
1,4-Dichlorobenzene	1.2	0.38	ug/m3	TO-15
1,4-Dioxane	5.0	0.76	ppb v/v	TO-15
1,4-Dioxane	18	2.7	ug/m3	TO-15
2,2,4-Trimethylpentane	0.20	0.043	ppb v/v	TO-15
2,2,4-Trimethylpentane	0.93	0.20	ug/m3	TO-15
2-Chlorotoluene	0.20	0.035	ppb v/v	TO-15
2-Chlorotoluene	1.0	0.18	ug/m3	TO-15
3-Chloropropene	0.50	0.063	ppb v/v	TO-15
3-Chloropropene	1.6	0.20	ug/m3	TO-15
4-Ethyltoluene	0.20	0.040	ppb v/v	TO-15
4-Ethyltoluene	0.98	0.20	ug/m3	TO-15
4-Isopropyltoluene	0.20	0.052	ppb v/v	TO-15
4-Isopropyltoluene	1.1	0.29	ug/m3	TO-15
Acetone	5.0	1.3	ppb v/v	TO-15
Acetone	12	3.1	ug/m3	TO-15
Benzene	0.20	0.028	ppb v/v	TO-15
Benzene	0.64	0.089	ug/m3	TO-15
Benzyl chloride	0.20	0.067	ppb v/v	TO-15
Benzyl chloride	1.0	0.35	ug/m3	TO-15
Bromodichloromethane	0.20	0.059	ppb v/v	TO-15
Bromodichloromethane	1.3	0.40	ug/m3	TO-15

Default Detection Limits

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Bromoethene(Vinyl Bromide)	0.20	0.022	ppb v/v	TO-15
Bromoethene(Vinyl Bromide)	0.87	0.096	ug/m3	TO-15
Bromoform	0.20	0.035	ppb v/v	TO-15
Bromoform	2.1	0.36	ug/m3	TO-15
Bromomethane	0.20	0.036	ppb v/v	TO-15
Bromomethane	0.78	0.14	ug/m3	TO-15
Carbon disulfide	0.50	0.028	ppb v/v	TO-15
Carbon disulfide	1.6	0.087	ug/m3	TO-15
Carbon tetrachloride	0.20	0.011	ppb v/v	TO-15
Carbon tetrachloride	1.3	0.069	ug/m3	TO-15
Chlorobenzene	0.20	0.025	ppb v/v	TO-15
Chlorobenzene	0.92	0.12	ug/m3	TO-15
Chloroethane	0.50	0.13	ppb v/v	TO-15
Chloroethane	1.3	0.34	ug/m3	TO-15
Chloroform	0.20	0.025	ppb v/v	TO-15
Chloroform	0.98	0.12	ug/m3	TO-15
Chloromethane	0.50	0.16	ppb v/v	TO-15
Chloromethane	1.0	0.33	ug/m3	TO-15
cis-1,2-Dichloroethene	0.20	0.029	ppb v/v	TO-15
cis-1,2-Dichloroethene	0.79	0.11	ug/m3	TO-15
cis-1,3-Dichloropropene	0.20	0.036	ppb v/v	TO-15
cis-1,3-Dichloropropene	0.91	0.16	ug/m3	TO-15
Cumene	0.20	0.039	ppb v/v	TO-15
Cumene	0.98	0.19	ug/m3	TO-15
Cyclohexane	0.20	0.045	ppb v/v	TO-15
Cyclohexane	0.69	0.15	ug/m3	TO-15
Dibromochloromethane	0.20	0.017	ppb v/v	TO-15
Dibromochloromethane	1.7	0.14	ug/m3	TO-15
Dichlorodifluoromethane	0.50	0.047	ppb v/v	TO-15
Dichlorodifluoromethane	2.5	0.23	ug/m3	TO-15
Ethylbenzene	0.20	0.034	ppb v/v	TO-15
Ethylbenzene	0.87	0.15	ug/m3	TO-15
Freon 22	0.50	0.20	ppb v/v	TO-15
Freon 22	1.8	0.71	ug/m3	TO-15
Freon TF	0.20	0.027	ppb v/v	TO-15
Freon TF	1.5	0.21	ug/m3	TO-15
Hexachlorobutadiene	0.20	0.064	ppb v/v	TO-15
Hexachlorobutadiene	2.1	0.68	ug/m3	TO-15
Isopropyl alcohol	5.0	0.13	ppb v/v	TO-15
Isopropyl alcohol	12	0.32	ug/m3	TO-15
m,p-Xylene	0.50	0.077	ppb v/v	TO-15
m,p-Xylene	2.2	0.33	ug/m3	TO-15
Methyl Butyl Ketone (2-Hexanone)	0.50	0.086	ppb v/v	TO-15
Methyl Butyl Ketone (2-Hexanone)	2.0	0.35	ug/m3	TO-15
Methyl Ethyl Ketone	0.50	0.11	ppb v/v	TO-15
Methyl Ethyl Ketone	1.5	0.32	ug/m3	TO-15
methyl isobutyl ketone	0.50	0.065	ppb v/v	TO-15
methyl isobutyl ketone	2.0	0.27	ug/m3	TO-15
Methyl methacrylate	0.50	0.11	ppb v/v	TO-15
Methyl methacrylate	2.0	0.45	ug/m3	TO-15
Methyl tert-butyl ether	0.20	0.041	ppb v/v	TO-15
Methyl tert-butyl ether	0.72	0.15	ug/m3	TO-15

Default Detection Limits

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	RL	MDL	Units	Method
Methylene Chloride	0.50	0.068	ppb v/v	TO-15
Methylene Chloride	1.7	0.24	ug/m3	TO-15
Naphthalene	0.50	0.10	ppb v/v	TO-15
Naphthalene	2.6	0.52	ug/m3	TO-15
n-Butane	0.50	0.046	ppb v/v	TO-15
n-Butane	1.2	0.11	ug/m3	TO-15
n-Butylbenzene	0.20	0.068	ppb v/v	TO-15
n-Butylbenzene	1.1	0.37	ug/m3	TO-15
n-Heptane	0.20	0.068	ppb v/v	TO-15
n-Heptane	0.82	0.28	ug/m3	TO-15
n-Hexane	0.20	0.046	ppb v/v	TO-15
n-Hexane	0.70	0.16	ug/m3	TO-15
n-Propylbenzene	0.20	0.040	ppb v/v	TO-15
n-Propylbenzene	0.98	0.20	ug/m3	TO-15
sec-Butylbenzene	0.20	0.037	ppb v/v	TO-15
sec-Butylbenzene	1.1	0.20	ug/m3	TO-15
Styrene	0.20	0.035	ppb v/v	TO-15
Styrene	0.85	0.15	ug/m3	TO-15
tert-Butyl alcohol	5.0	1.7	ppb v/v	TO-15
tert-Butyl alcohol	15	5.2	ug/m3	TO-15
tert-Butylbenzene	0.20	0.037	ppb v/v	TO-15
tert-Butylbenzene	1.1	0.20	ug/m3	TO-15
Tetrachloroethene	0.20	0.0098	ppb v/v	TO-15
Tetrachloroethene	1.4	0.066	ug/m3	TO-15
Tetrahydrofuran	5.0	1.2	ppb v/v	TO-15
Tetrahydrofuran	15	3.5	ug/m3	TO-15
Toluene	0.20	0.035	ppb v/v	TO-15
Toluene	0.75	0.13	ug/m3	TO-15
trans-1,2-Dichloroethene	0.20	0.050	ppb v/v	TO-15
trans-1,2-Dichloroethene	0.79	0.20	ug/m3	TO-15
trans-1,3-Dichloropropene	0.20	0.038	ppb v/v	TO-15
trans-1,3-Dichloropropene	0.91	0.17	ug/m3	TO-15
Trichloroethene	0.20	0.0091	ppb v/v	TO-15
Trichloroethene	1.1	0.049	ug/m3	TO-15
Trichlorofluoromethane	0.20	0.031	ppb v/v	TO-15
Trichlorofluoromethane	1.1	0.17	ug/m3	TO-15
Vinyl chloride	0.20	0.018	ppb v/v	TO-15
Vinyl chloride	0.51	0.046	ug/m3	TO-15
Xylene, o-	0.20	0.040	ppb v/v	TO-15
Xylene, o-	0.87	0.17	ug/m3	TO-15

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-122480/4

Matrix: Air

Analysis Batch: 122480

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.047	ppb v/v			10/24/17 13:57	1
Freon 22	0.50	U	0.50	0.20	ppb v/v			10/24/17 13:57	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.041	ppb v/v			10/24/17 13:57	1
Chloromethane	0.50	U	0.50	0.16	ppb v/v			10/24/17 13:57	1
n-Butane	0.50	U	0.50	0.046	ppb v/v			10/24/17 13:57	1
Vinyl chloride	0.20	U	0.20	0.018	ppb v/v			10/24/17 13:57	1
1,3-Butadiene	0.20	U	0.20	0.037	ppb v/v			10/24/17 13:57	1
Bromomethane	0.20	U	0.20	0.036	ppb v/v			10/24/17 13:57	1
Chloroethane	0.50	U	0.50	0.13	ppb v/v			10/24/17 13:57	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.022	ppb v/v			10/24/17 13:57	1
Trichlorofluoromethane	0.20	U	0.20	0.031	ppb v/v			10/24/17 13:57	1
Freon TF	0.20	U	0.20	0.027	ppb v/v			10/24/17 13:57	1
1,1-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			10/24/17 13:57	1
Acetone	5.0	U	5.0	1.3	ppb v/v			10/24/17 13:57	1
Isopropyl alcohol	5.0	U	5.0	0.13	ppb v/v			10/24/17 13:57	1
Carbon disulfide	0.50	U	0.50	0.028	ppb v/v			10/24/17 13:57	1
3-Chloropropene	0.50	U	0.50	0.063	ppb v/v			10/24/17 13:57	1
Methylene Chloride	0.50	U	0.50	0.068	ppb v/v			10/24/17 13:57	1
tert-Butyl alcohol	5.0	U	5.0	1.7	ppb v/v			10/24/17 13:57	1
Methyl tert-butyl ether	0.20	U	0.20	0.041	ppb v/v			10/24/17 13:57	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.050	ppb v/v			10/24/17 13:57	1
n-Hexane	0.20	U	0.20	0.046	ppb v/v			10/24/17 13:57	1
1,1-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			10/24/17 13:57	1
Methyl Ethyl Ketone	0.50	U	0.50	0.11	ppb v/v			10/24/17 13:57	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			10/24/17 13:57	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			10/24/17 13:57	1
Tetrahydrofuran	5.0	U	5.0	1.2	ppb v/v			10/24/17 13:57	1
1,1,1-Trichloroethane	0.20	U	0.20	0.026	ppb v/v			10/24/17 13:57	1
Cyclohexane	0.20	U	0.20	0.045	ppb v/v			10/24/17 13:57	1
Carbon tetrachloride	0.20	U	0.20	0.011	ppb v/v			10/24/17 13:57	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.043	ppb v/v			10/24/17 13:57	1
Benzene	0.20	U	0.20	0.028	ppb v/v			10/24/17 13:57	1
1,2-Dichloroethane	0.20	U	0.20	0.034	ppb v/v			10/24/17 13:57	1
n-Heptane	0.20	U	0.20	0.068	ppb v/v			10/24/17 13:57	1
Trichloroethene	0.20	U	0.20	0.0091	ppb v/v			10/24/17 13:57	1
Methyl methacrylate	0.50	U	0.50	0.11	ppb v/v			10/24/17 13:57	1
1,2-Dichloropropane	0.20	U	0.20	0.035	ppb v/v			10/24/17 13:57	1
1,4-Dioxane	5.0	U	5.0	0.76	ppb v/v			10/24/17 13:57	1
Bromodichloromethane	0.20	U	0.20	0.059	ppb v/v			10/24/17 13:57	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.036	ppb v/v			10/24/17 13:57	1
methyl isobutyl ketone	0.50	U	0.50	0.065	ppb v/v			10/24/17 13:57	1
Toluene	0.20	U	0.20	0.035	ppb v/v			10/24/17 13:57	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.038	ppb v/v			10/24/17 13:57	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			10/24/17 13:57	1
Tetrachloroethene	0.20	U	0.20	0.0098	ppb v/v			10/24/17 13:57	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.086	ppb v/v			10/24/17 13:57	1
Dibromochloromethane	0.20	U	0.20	0.017	ppb v/v			10/24/17 13:57	1
1,2-Dibromoethane	0.20	U	0.20	0.023	ppb v/v			10/24/17 13:57	1

TestAmerica Burlington

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-122480/4

Matrix: Air

Analysis Batch: 122480

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.20	U	0.20	0.025	ppb v/v			10/24/17 13:57	1
Ethylbenzene	0.20	U	0.20	0.034	ppb v/v			10/24/17 13:57	1
m,p-Xylene	0.50	U	0.50	0.077	ppb v/v			10/24/17 13:57	1
Xylene, o-	0.20	U	0.20	0.040	ppb v/v			10/24/17 13:57	1
Styrene	0.20	U	0.20	0.035	ppb v/v			10/24/17 13:57	1
Bromoform	0.20	U	0.20	0.035	ppb v/v			10/24/17 13:57	1
Cumene	0.20	U	0.20	0.039	ppb v/v			10/24/17 13:57	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.026	ppb v/v			10/24/17 13:57	1
n-Propylbenzene	0.20	U	0.20	0.040	ppb v/v			10/24/17 13:57	1
4-Ethyltoluene	0.20	U	0.20	0.040	ppb v/v			10/24/17 13:57	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.040	ppb v/v			10/24/17 13:57	1
2-Chlorotoluene	0.20	U	0.20	0.035	ppb v/v			10/24/17 13:57	1
tert-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/24/17 13:57	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.057	ppb v/v			10/24/17 13:57	1
sec-Butylbenzene	0.20	U	0.20	0.037	ppb v/v			10/24/17 13:57	1
4-Isopropyltoluene	0.20	U	0.20	0.052	ppb v/v			10/24/17 13:57	1
1,3-Dichlorobenzene	0.20	U	0.20	0.050	ppb v/v			10/24/17 13:57	1
1,4-Dichlorobenzene	0.20	U	0.20	0.063	ppb v/v			10/24/17 13:57	1
Benzyl chloride	0.20	U	0.20	0.067	ppb v/v			10/24/17 13:57	1
n-Butylbenzene	0.20	U	0.20	0.068	ppb v/v			10/24/17 13:57	1
1,2-Dichlorobenzene	0.20	U	0.20	0.045	ppb v/v			10/24/17 13:57	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.19	ppb v/v			10/24/17 13:57	1
Hexachlorobutadiene	0.20	U	0.20	0.064	ppb v/v			10/24/17 13:57	1
Naphthalene	0.50	U	0.50	0.10	ppb v/v			10/24/17 13:57	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.5	U	2.5	0.23	ug/m3			10/24/17 13:57	1
Freon 22	1.8	U	1.8	0.71	ug/m3			10/24/17 13:57	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.29	ug/m3			10/24/17 13:57	1
Chloromethane	1.0	U	1.0	0.33	ug/m3			10/24/17 13:57	1
n-Butane	1.2	U	1.2	0.11	ug/m3			10/24/17 13:57	1
Vinyl chloride	0.51	U	0.51	0.046	ug/m3			10/24/17 13:57	1
1,3-Butadiene	0.44	U	0.44	0.082	ug/m3			10/24/17 13:57	1
Bromomethane	0.78	U	0.78	0.14	ug/m3			10/24/17 13:57	1
Chloroethane	1.3	U	1.3	0.34	ug/m3			10/24/17 13:57	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.096	ug/m3			10/24/17 13:57	1
Trichlorofluoromethane	1.1	U	1.1	0.17	ug/m3			10/24/17 13:57	1
Freon TF	1.5	U	1.5	0.21	ug/m3			10/24/17 13:57	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			10/24/17 13:57	1
Acetone	12	U	12	3.1	ug/m3			10/24/17 13:57	1
Isopropyl alcohol	12	U	12	0.32	ug/m3			10/24/17 13:57	1
Carbon disulfide	1.6	U	1.6	0.087	ug/m3			10/24/17 13:57	1
3-Chloropropene	1.6	U	1.6	0.20	ug/m3			10/24/17 13:57	1
Methylene Chloride	1.7	U	1.7	0.24	ug/m3			10/24/17 13:57	1
tert-Butyl alcohol	15	U	15	5.2	ug/m3			10/24/17 13:57	1
Methyl tert-butyl ether	0.72	U	0.72	0.15	ug/m3			10/24/17 13:57	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.20	ug/m3			10/24/17 13:57	1
n-Hexane	0.70	U	0.70	0.16	ug/m3			10/24/17 13:57	1

TestAmerica Burlington

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-122480/4

Matrix: Air

Analysis Batch: 122480

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.81	U	0.81	0.069	ug/m3			10/24/17 13:57	1
Methyl Ethyl Ketone	1.5	U	1.5	0.32	ug/m3			10/24/17 13:57	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			10/24/17 13:57	1
Chloroform	0.98	U	0.98	0.12	ug/m3			10/24/17 13:57	1
Tetrahydrofuran	15	U	15	3.5	ug/m3			10/24/17 13:57	1
1,1,1-Trichloroethane	1.1	U	1.1	0.14	ug/m3			10/24/17 13:57	1
Cyclohexane	0.69	U	0.69	0.15	ug/m3			10/24/17 13:57	1
Carbon tetrachloride	1.3	U	1.3	0.069	ug/m3			10/24/17 13:57	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.20	ug/m3			10/24/17 13:57	1
Benzene	0.64	U	0.64	0.089	ug/m3			10/24/17 13:57	1
1,2-Dichloroethane	0.81	U	0.81	0.14	ug/m3			10/24/17 13:57	1
n-Heptane	0.82	U	0.82	0.28	ug/m3			10/24/17 13:57	1
Trichloroethene	1.1	U	1.1	0.049	ug/m3			10/24/17 13:57	1
Methyl methacrylate	2.0	U	2.0	0.45	ug/m3			10/24/17 13:57	1
1,2-Dichloropropane	0.92	U	0.92	0.16	ug/m3			10/24/17 13:57	1
1,4-Dioxane	18	U	18	2.7	ug/m3			10/24/17 13:57	1
Bromodichloromethane	1.3	U	1.3	0.40	ug/m3			10/24/17 13:57	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.16	ug/m3			10/24/17 13:57	1
methyl isobutyl ketone	2.0	U	2.0	0.27	ug/m3			10/24/17 13:57	1
Toluene	0.75	U	0.75	0.13	ug/m3			10/24/17 13:57	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.17	ug/m3			10/24/17 13:57	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			10/24/17 13:57	1
Tetrachloroethene	1.4	U	1.4	0.066	ug/m3			10/24/17 13:57	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.35	ug/m3			10/24/17 13:57	1
Dibromochloromethane	1.7	U	1.7	0.14	ug/m3			10/24/17 13:57	1
1,2-Dibromoethane	1.5	U	1.5	0.18	ug/m3			10/24/17 13:57	1
Chlorobenzene	0.92	U	0.92	0.12	ug/m3			10/24/17 13:57	1
Ethylbenzene	0.87	U	0.87	0.15	ug/m3			10/24/17 13:57	1
m,p-Xylene	2.2	U	2.2	0.33	ug/m3			10/24/17 13:57	1
Xylene, o-	0.87	U	0.87	0.17	ug/m3			10/24/17 13:57	1
Styrene	0.85	U	0.85	0.15	ug/m3			10/24/17 13:57	1
Bromoform	2.1	U	2.1	0.36	ug/m3			10/24/17 13:57	1
Cumene	0.98	U	0.98	0.19	ug/m3			10/24/17 13:57	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.18	ug/m3			10/24/17 13:57	1
n-Propylbenzene	0.98	U	0.98	0.20	ug/m3			10/24/17 13:57	1
4-Ethyltoluene	0.98	U	0.98	0.20	ug/m3			10/24/17 13:57	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.20	ug/m3			10/24/17 13:57	1
2-Chlorotoluene	1.0	U	1.0	0.18	ug/m3			10/24/17 13:57	1
tert-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/24/17 13:57	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.28	ug/m3			10/24/17 13:57	1
sec-Butylbenzene	1.1	U	1.1	0.20	ug/m3			10/24/17 13:57	1
4-Isopropyltoluene	1.1	U	1.1	0.29	ug/m3			10/24/17 13:57	1
1,3-Dichlorobenzene	1.2	U	1.2	0.30	ug/m3			10/24/17 13:57	1
1,4-Dichlorobenzene	1.2	U	1.2	0.38	ug/m3			10/24/17 13:57	1
Benzyl chloride	1.0	U	1.0	0.35	ug/m3			10/24/17 13:57	1
n-Butylbenzene	1.1	U	1.1	0.37	ug/m3			10/24/17 13:57	1
1,2-Dichlorobenzene	1.2	U	1.2	0.27	ug/m3			10/24/17 13:57	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.4	ug/m3			10/24/17 13:57	1

TestAmerica Burlington

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-122480/4

Matrix: Air

Analysis Batch: 122480

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	2.1	U	2.1	0.68	ug/m3			10/24/17 13:57	1
Naphthalene	2.6	U	2.6	0.52	ug/m3			10/24/17 13:57	1

Lab Sample ID: LCS 200-122480/3

Matrix: Air

Analysis Batch: 122480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	12.1		ppb v/v		121	68 - 128
Freon 22	10.0	12.6		ppb v/v		126	64 - 128
1,2-Dichlorotetrafluoroethane	10.0	13.4		ppb v/v		134	78 - 138
Chloromethane	10.0	11.6		ppb v/v		116	57 - 126
n-Butane	10.0	11.8		ppb v/v		118	56 - 130
Vinyl chloride	10.0	11.8		ppb v/v		118	62 - 125
1,3-Butadiene	10.0	11.3		ppb v/v		113	59 - 125
Bromomethane	10.0	10.7		ppb v/v		107	68 - 128
Chloroethane	10.0	10.9		ppb v/v		109	65 - 125
Bromoethene(Vinyl Bromide)	10.0	10.1		ppb v/v		101	67 - 127
Trichlorofluoromethane	10.0	11.1		ppb v/v		111	67 - 127
Freon TF	10.0	10.5		ppb v/v		105	68 - 128
1,1-Dichloroethene	10.0	10.0		ppb v/v		100	67 - 127
Acetone	10.0	12.9		ppb v/v		129	64 - 136
Isopropyl alcohol	10.0	11.7		ppb v/v		117	55 - 124
Carbon disulfide	10.0	12.1		ppb v/v		121	81 - 141
3-Chloropropene	10.0	7.93		ppb v/v		79	53 - 133
Methylene Chloride	10.0	11.6		ppb v/v		116	62 - 122
tert-Butyl alcohol	10.0	11.5		ppb v/v		115	64 - 124
Methyl tert-butyl ether	10.0	10.8		ppb v/v		108	67 - 127
trans-1,2-Dichloroethene	10.0	11.9		ppb v/v		119	72 - 132
n-Hexane	10.0	11.4		ppb v/v		114	71 - 131
1,1-Dichloroethane	10.0	11.4		ppb v/v		114	66 - 126
Methyl Ethyl Ketone	10.0	10.6		ppb v/v		106	62 - 122
cis-1,2-Dichloroethene	10.0	10.2		ppb v/v		102	67 - 127
Chloroform	10.0	11.2		ppb v/v		112	69 - 129
Tetrahydrofuran	10.0	12.3		ppb v/v		123	61 - 136
1,1,1-Trichloroethane	10.0	11.2		ppb v/v		112	70 - 130
Cyclohexane	10.0	10.7		ppb v/v		107	69 - 129
Carbon tetrachloride	10.0	11.4		ppb v/v		114	62 - 143
2,2,4-Trimethylpentane	10.0	11.2		ppb v/v		112	67 - 127
Benzene	10.0	10.6		ppb v/v		106	67 - 127
1,2-Dichloroethane	10.0	12.0		ppb v/v		120	67 - 132
n-Heptane	10.0	11.4		ppb v/v		114	62 - 130
Trichloroethene	10.0	10.8		ppb v/v		108	68 - 128
Methyl methacrylate	10.0	11.0		ppb v/v		110	70 - 130
1,2-Dichloropropane	10.0	11.3		ppb v/v		113	67 - 127
1,4-Dioxane	10.0	11.5		ppb v/v		115	66 - 132
Bromodichloromethane	10.0	10.9		ppb v/v		109	69 - 129
cis-1,3-Dichloropropene	10.0	11.2		ppb v/v		112	70 - 130

TestAmerica Burlington

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-122480/3

Matrix: Air

Analysis Batch: 122480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
methyl isobutyl ketone	10.0	11.4		ppb v/v		114	62 - 130
Toluene	10.0	10.3		ppb v/v		103	67 - 127
trans-1,3-Dichloropropene	10.0	11.3		ppb v/v		113	69 - 129
1,1,2-Trichloroethane	10.0	11.0		ppb v/v		110	69 - 129
Tetrachloroethene	10.0	9.97		ppb v/v		100	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	10.8		ppb v/v		108	61 - 127
Dibromochloromethane	10.0	9.21		ppb v/v		92	66 - 130
1,2-Dibromoethane	10.0	10.7		ppb v/v		107	70 - 130
Chlorobenzene	10.0	10.3		ppb v/v		103	68 - 128
Ethylbenzene	10.0	10.5		ppb v/v		105	68 - 128
m,p-Xylene	20.0	20.5		ppb v/v		103	68 - 128
Xylene, o-	10.0	10.1		ppb v/v		101	67 - 127
Styrene	10.0	10.4		ppb v/v		104	68 - 128
Bromoform	10.0	6.98		ppb v/v		70	34 - 170
Cumene	10.0	10.3		ppb v/v		103	67 - 127
1,1,2,2-Tetrachloroethane	10.0	11.2		ppb v/v		112	69 - 129
n-Propylbenzene	10.0	10.9		ppb v/v		109	67 - 127
4-Ethyltoluene	10.0	10.9		ppb v/v		109	69 - 129
1,3,5-Trimethylbenzene	10.0	10.6		ppb v/v		106	65 - 125
2-Chlorotoluene	10.0	10.8		ppb v/v		108	67 - 127
tert-Butylbenzene	10.0	10.5		ppb v/v		105	63 - 125
1,2,4-Trimethylbenzene	10.0	10.8		ppb v/v		108	65 - 125
sec-Butylbenzene	10.0	10.7		ppb v/v		107	66 - 126
4-Isopropyltoluene	10.0	10.7		ppb v/v		107	67 - 129
1,3-Dichlorobenzene	10.0	10.8		ppb v/v		108	67 - 127
1,4-Dichlorobenzene	10.0	10.8		ppb v/v		108	66 - 126
Benzyl chloride	10.0	10.8		ppb v/v		108	54 - 135
n-Butylbenzene	10.0	11.5		ppb v/v		115	67 - 127
1,2-Dichlorobenzene	10.0	10.8		ppb v/v		108	67 - 127
1,2,4-Trichlorobenzene	10.0	12.0		ppb v/v		120	59 - 126
Hexachlorobutadiene	10.0	10.7		ppb v/v		107	62 - 130
Naphthalene	10.0	11.8		ppb v/v		118	50 - 121

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	49	59.6		ug/m3		121	68 - 128
Freon 22	35	44.4		ug/m3		126	64 - 128
1,2-Dichlorotetrafluoroethane	70	93.4		ug/m3		134	78 - 138
Chloromethane	21	23.9		ug/m3		116	57 - 126
n-Butane	24	28.1		ug/m3		118	56 - 130
Vinyl chloride	26	30.2		ug/m3		118	62 - 125
1,3-Butadiene	22	25.0		ug/m3		113	59 - 125
Bromomethane	39	41.7		ug/m3		107	68 - 128
Chloroethane	26	28.8		ug/m3		109	65 - 125
Bromoethene(Vinyl Bromide)	44	44.0		ug/m3		101	67 - 127
Trichlorofluoromethane	56	62.4		ug/m3		111	67 - 127
Freon TF	77	80.4		ug/m3		105	68 - 128
1,1-Dichloroethene	40	39.8		ug/m3		100	67 - 127

TestAmerica Burlington

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-122480/3

Matrix: Air

Analysis Batch: 122480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	24	30.6		ug/m3		129	64 - 136
Isopropyl alcohol	25	28.7		ug/m3		117	55 - 124
Carbon disulfide	31	37.6		ug/m3		121	81 - 141
3-Chloropropene	31	24.8		ug/m3		79	53 - 133
Methylene Chloride	35	40.4		ug/m3		116	62 - 122
tert-Butyl alcohol	30	34.8		ug/m3		115	64 - 124
Methyl tert-butyl ether	36	39.1		ug/m3		108	67 - 127
trans-1,2-Dichloroethene	40	47.3		ug/m3		119	72 - 132
n-Hexane	35	40.3		ug/m3		114	71 - 131
1,1-Dichloroethane	40	46.3		ug/m3		114	66 - 126
Methyl Ethyl Ketone	29	31.3		ug/m3		106	62 - 122
cis-1,2-Dichloroethene	40	40.4		ug/m3		102	67 - 127
Chloroform	49	54.5		ug/m3		112	69 - 129
Tetrahydrofuran	29	36.4		ug/m3		123	61 - 136
1,1,1-Trichloroethane	55	61.3		ug/m3		112	70 - 130
Cyclohexane	34	36.8		ug/m3		107	69 - 129
Carbon tetrachloride	63	71.8		ug/m3		114	62 - 143
2,2,4-Trimethylpentane	47	52.1		ug/m3		112	67 - 127
Benzene	32	33.9		ug/m3		106	67 - 127
1,2-Dichloroethane	40	48.7		ug/m3		120	67 - 132
n-Heptane	41	46.8		ug/m3		114	62 - 130
Trichloroethene	54	58.1		ug/m3		108	68 - 128
Methyl methacrylate	41	45.2		ug/m3		110	70 - 130
1,2-Dichloropropane	46	52.1		ug/m3		113	67 - 127
1,4-Dioxane	36	41.5		ug/m3		115	66 - 132
Bromodichloromethane	67	73.3		ug/m3		109	69 - 129
cis-1,3-Dichloropropene	45	50.9		ug/m3		112	70 - 130
methyl isobutyl ketone	41	46.9		ug/m3		114	62 - 130
Toluene	38	38.8		ug/m3		103	67 - 127
trans-1,3-Dichloropropene	45	51.2		ug/m3		113	69 - 129
1,1,2-Trichloroethane	55	59.8		ug/m3		110	69 - 129
Tetrachloroethene	68	67.6		ug/m3		100	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	44.2		ug/m3		108	61 - 127
Dibromochloromethane	85	78.5		ug/m3		92	66 - 130
1,2-Dibromoethane	77	82.2		ug/m3		107	70 - 130
Chlorobenzene	46	47.6		ug/m3		103	68 - 128
Ethylbenzene	43	45.8		ug/m3		105	68 - 128
m,p-Xylene	87	89.0		ug/m3		103	68 - 128
Xylene, o-	43	43.7		ug/m3		101	67 - 127
Styrene	43	44.1		ug/m3		104	68 - 128
Bromoform	100	72.1		ug/m3		70	34 - 170
Cumene	49	50.8		ug/m3		103	67 - 127
1,1,2,2-Tetrachloroethane	69	76.8		ug/m3		112	69 - 129
n-Propylbenzene	49	53.8		ug/m3		109	67 - 127
4-Ethyltoluene	49	53.7		ug/m3		109	69 - 129
1,3,5-Trimethylbenzene	49	52.3		ug/m3		106	65 - 125
2-Chlorotoluene	52	55.7		ug/m3		108	67 - 127

TestAmerica Burlington

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-122480/3

Matrix: Air

Analysis Batch: 122480

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	55	57.8		ug/m3		105	63 - 125
1,2,4-Trimethylbenzene	49	53.0		ug/m3		108	65 - 125
sec-Butylbenzene	55	58.6		ug/m3		107	66 - 126
4-Isopropyltoluene	55	58.8		ug/m3		107	67 - 129
1,3-Dichlorobenzene	60	64.7		ug/m3		108	67 - 127
1,4-Dichlorobenzene	60	64.7		ug/m3		108	66 - 126
Benzyl chloride	52	55.8		ug/m3		108	54 - 135
n-Butylbenzene	55	63.0		ug/m3		115	67 - 127
1,2-Dichlorobenzene	60	65.2		ug/m3		108	67 - 127
1,2,4-Trichlorobenzene	74	89.4		ug/m3		120	59 - 126
Hexachlorobutadiene	110	114		ug/m3		107	62 - 130
Naphthalene	52	61.6		ug/m3		118	50 - 121

QC Association Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Air - GC/MS VOA

Analysis Batch: 122480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-40522-1	AGSG1S-G-39878	Total/NA	Air	TO-15	
200-40522-2	AGSG1D-G-39879	Total/NA	Air	TO-15	
200-40522-3	AGSG2S-G-39880	Total/NA	Air	TO-15	
200-40522-4	AGSG2D-G-39881	Total/NA	Air	TO-15	
200-40522-5	AGSG3S-G-39882	Total/NA	Air	TO-15	
200-40522-6	AGSG3D-G-39883	Total/NA	Air	TO-15	
200-40522-7	AGSG2DDUP-G-39884	Total/NA	Air	TO-15	
200-40522-8	AGBKGD-G-39885	Total/NA	Air	TO-15	
MB 200-122480/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-122480/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG1S-G-39878

Date Collected: 10/17/17 17:35

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40522-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	122480	10/24/17 16:37	ERT	TAL BUR

Client Sample ID: AGSG1D-G-39879

Date Collected: 10/17/17 17:36

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40522-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	122480	10/24/17 17:30	ERT	TAL BUR

Client Sample ID: AGSG2S-G-39880

Date Collected: 10/17/17 17:37

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40522-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	122480	10/24/17 18:23	ERT	TAL BUR

Client Sample ID: AGSG2D-G-39881

Date Collected: 10/17/17 17:38

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40522-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	122480	10/24/17 19:17	ERT	TAL BUR

Client Sample ID: AGSG3S-G-39882

Date Collected: 10/17/17 17:39

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40522-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	122480	10/24/17 20:11	ERT	TAL BUR

Client Sample ID: AGSG3D-G-39883

Date Collected: 10/17/17 17:40

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40522-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	122480	10/24/17 21:04	ERT	TAL BUR

Lab Chronicle

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Client Sample ID: AGSG2DDUP-G-39884

Date Collected: 10/17/17 17:52

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40522-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	122480	10/24/17 21:58	ERT	TAL BUR

Client Sample ID: AGBKGD-G-39885

Date Collected: 10/17/17 18:00

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40522-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	122480	10/24/17 22:51	ERT	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-17 *
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-18
L-A-B	DoD ELAP		L2336	02-25-20
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-18
Pennsylvania	NELAP	3	68-00489	04-30-18
Rhode Island	State Program	1	LAO00298	12-30-17
US Fish & Wildlife	Federal		LE-058448-0	10-31-17 *
USDA	Federal		P330-11-00093	12-05-19
Vermont	State Program	1	VT-4000	12-31-17
Virginia	NELAP	3	460209	12-14-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Burlington

Method Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40522)

TestAmerica Job ID: 200-40522-1
SDG: 200-40522-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-40522-1	AGSG1S-G-39878	Air	10/17/17 17:35	10/19/17 10:15
200-40522-2	AGSG1D-G-39879	Air	10/17/17 17:36	10/19/17 10:15
200-40522-3	AGSG2S-G-39880	Air	10/17/17 17:37	10/19/17 10:15
200-40522-4	AGSG2D-G-39881	Air	10/17/17 17:38	10/19/17 10:15
200-40522-5	AGSG3S-G-39882	Air	10/17/17 17:39	10/19/17 10:15
200-40522-6	AGSG3D-G-39883	Air	10/17/17 17:40	10/19/17 10:15
200-40522-7	AGSG2DDUP-G-39884	Air	10/17/17 17:52	10/19/17 10:15
200-40522-8	AGBKGD-G-39885	Air	10/17/17 18:00	10/19/17 10:15

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15BISs_00006							1,2-Dichloroethene, Total	
							1,4-Difluorobenzene	100 ppb v/v
							BFB	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v
							Tentatively Identified Compound	
							Total Alkanes	
ATTO15CAL1w_00179	12/17/17	09/19/17	Zero Air, Lot 12	15.463 L	ATTO15CAL6w_00144	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,3-Trichlorobenzene	0.20044 ppb v/v
							1,2,3-Trichloropropane	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dibromoethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,2-Dichlorotetrafluoroethane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Butadiene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2,2,4-Trimethylpentane	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	0.20044 ppb v/v
							2-Methylbutane	0.20044 ppb v/v
							3-Chloropropene	0.20044 ppb v/v
							4-Ethyltoluene	0.20044 ppb v/v
							4-Isopropyltoluene	0.20044 ppb v/v
							Acetone	0.20044 ppb v/v
							Acetonitrile	0.20044 ppb v/v
							Acrolein	0.20044 ppb v/v
							Acrylonitrile	0.20044 ppb v/v
							Alpha Methyl Styrene	0.20044 ppb v/v
							Benzene	0.20044 ppb v/v
							Benzyl chloride	0.20044 ppb v/v
							Bromodichloromethane	0.20044 ppb v/v
							Bromoethene (Vinyl Bromide)	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,2-Dichloroethene	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cumene	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	0.20044 ppb v/v
							Dibromochloromethane	0.20044 ppb v/v
							Dibromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Dodecane	0.20044 ppb v/v
							Ethyl acetate	0.20044 ppb v/v
							Ethyl ether	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Freon 22	0.20044 ppb v/v
							Freon TF	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Isopropyl alcohol	0.20044 ppb v/v
							m,p-Xylene	0.400879 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	0.20044 ppb v/v
							Methyl Ethyl Ketone	0.20044 ppb v/v
							methyl isobutyl ketone	0.20044 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v
							n-Butane	0.20044 ppb v/v
							n-Butanol	0.20044 ppb v/v
							n-Butylbenzene	0.20044 ppb v/v
							n-Decane	0.20044 ppb v/v
							n-Heptane	0.20044 ppb v/v
							n-Hexane	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Nonane	0.20044 ppb v/v
							n-Octane	0.20044 ppb v/v
							n-Propylbenzene	0.20044 ppb v/v
							Naphthalene	0.20044 ppb v/v
							Pentane	0.20044 ppb v/v
							Propene	0.20044 ppb v/v
							sec-Butylbenzene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v
							tert-Butyl alcohol	0.20044 ppb v/v
							tert-Butylbenzene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,2-Dichloroethene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Undecane	0.20044 ppb v/v
							Vinyl acetate	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
.ATTO15CAL6w_00144	12/17/17	09/19/17	Zero Air, Lot 1	15.463 L	ATTO15CALSTKi_00094	1546 mL	Ethanol	0.400944 ppb v/v
							1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2,2,4-Trimethylpentane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloropropene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoethene (Vinyl Bromide)	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Freon 22	19.9961 ppb v/v
							Freon TF	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butane	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butyl alcohol	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00088	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00094	12/17/17	09/18/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
...ATTO15CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)		Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
							1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
..ATTO15EthCALw_00088	12/19/17	09/19/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00010	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00010	08/14/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL2w_00242	10/21/17	08/22/17	Zero Air, Lot 12	15.463 L	ATTO15CAL6w_00143	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,3-Trichlorobenzene	0.500453 ppb v/v
							1,2,3-Trichloropropane	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dibromoethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,2-Dichlorotetrafluoroethane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Butadiene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v
							2,2,4-Trimethylpentane	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Methylbutane	0.500453 ppb v/v
							3-Chloropropene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Isopropyltoluene	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Acetonitrile	0.500453 ppb v/v
							Acrolein	0.500453 ppb v/v
							Acrylonitrile	0.500453 ppb v/v
							Alpha Methyl Styrene	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Benzyl chloride	0.500453 ppb v/v
							Bromodichloromethane	0.500453 ppb v/v
							Bromoethene (Vinyl Bromide)	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,2-Dichloroethene	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v
							Cumene	0.500453 ppb v/v
							Cyclohexane	0.500453 ppb v/v
							Dibromochloromethane	0.500453 ppb v/v
							Dibromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Dodecane	0.500453 ppb v/v
							Ethyl acetate	0.500453 ppb v/v
							Ethyl ether	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Freon 22	0.500453 ppb v/v
							Freon TF	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v
							m,p-Xylene	1.00091 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	0.500453 ppb v/v
							Methyl Ethyl Ketone	0.500453 ppb v/v
							methyl isobutyl ketone	0.500453 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butane	0.500453 ppb v/v
							n-Butanol	0.500453 ppb v/v
							n-Butylbenzene	0.500453 ppb v/v
							n-Decane	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							n-Hexane	0.500453 ppb v/v
							n-Nonane	0.500453 ppb v/v
							n-Octane	0.500453 ppb v/v
							n-Propylbenzene	0.500453 ppb v/v
							Naphthalene	0.500453 ppb v/v
							Pentane	0.500453 ppb v/v
							Propene	0.500453 ppb v/v
							sec-Butylbenzene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							tert-Butyl alcohol	0.500453 ppb v/v
							tert-Butylbenzene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v
							trans-1,2-Dichloroethene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Undecane	0.500453 ppb v/v
							Vinyl acetate	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	0.500453 ppb v/v
							Xylene, o-	0.500453 ppb v/v
							Ethanol	5.01064 ppb v/v
					ATTO15EthCALw_00087	124 mL	Ethanol	5.01064 ppb v/v
.ATTO15CAL6w_00143	10/21/17	08/21/17	Zero Air, Lot 13	15.463 L	ATTO15CALSTKi_00093	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2,2,4-Trimethylpentane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylbutane	19.9961 ppb v/v
							3-Chloropropene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoethene (Vinyl Bromide)	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Freon 22	19.9961 ppb v/v
							Freon TF	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butane	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butyl alcohol	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v
					ATTO15EthCALw_00087	1237 mL	Ethanol	39.9987 ppb v/v
..ATTO15CALSTKi_00093	10/21/17	07/21/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
...ATTO15CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
..ATTO15EthCALw_00087	11/14/17	08/14/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00010	18.75 uL	Ethanol	500 ppb v/v
...ATTO15EthCALs_00010	08/14/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
.ATTO15EthCALw_00087	11/14/17	08/14/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00010	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00010	08/14/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL3w_00188	12/17/17	09/19/17	Zero Air, Lot 12	15.463 L	ATTO15CALSTKi_00094	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,3-Trichlorobenzene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dibromoethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,2-Dichlorotetrafluoroethane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Butadiene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2,2,4-Trimethylpentane	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
							2-Methylbutane	4.99256 ppb v/v
							3-Chloropropene	4.99256 ppb v/v
							4-Ethyltoluene	4.99256 ppb v/v
							4-Isopropyltoluene	4.99256 ppb v/v
							Acetone	4.99256 ppb v/v
							Acetonitrile	4.99256 ppb v/v
							Acrolein	4.99256 ppb v/v
							Acrylonitrile	4.99256 ppb v/v
							Alpha Methyl Styrene	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	4.99256 ppb v/v
							Bromodichloromethane	4.99256 ppb v/v
							Bromoethene (Vinyl Bromide)	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,2-Dichloroethene	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cumene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dibromochloromethane	4.99256 ppb v/v
							Dibromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Dodecane	4.99256 ppb v/v
							Ethyl acetate	4.99256 ppb v/v
							Ethyl ether	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Freon 22	4.99256 ppb v/v
							Freon TF	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	4.99256 ppb v/v
							m,p-Xylene	9.98513 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	4.99256 ppb v/v
							Methyl Ethyl Ketone	4.99256 ppb v/v
							methyl isobutyl ketone	4.99256 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v
							Methylene Chloride	4.99256 ppb v/v
							n-Butane	4.99256 ppb v/v
							n-Butanol	4.99256 ppb v/v
							n-Butylbenzene	4.99256 ppb v/v
							n-Decane	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							n-Hexane	4.99256 ppb v/v
							n-Nonane	4.99256 ppb v/v
							n-Octane	4.99256 ppb v/v
							n-Propylbenzene	4.99256 ppb v/v
							Naphthalene	4.99256 ppb v/v
							Pentane	4.99256 ppb v/v
							Propene	4.99256 ppb v/v
							sec-Butylbenzene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							tert-Butyl alcohol	4.99256 ppb v/v
							tert-Butylbenzene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,2-Dichloroethene	4.99256 ppb v/v
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Undecane	4.99256 ppb v/v
							Vinyl acetate	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
							Xylene, o-	4.99256 ppb v/v
					ATTO15EthCALw_00088	309 mL	Ethanol	9.99159 ppb v/v
.ATTO15CALSTKi_00094	12/17/17	09/18/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATT015CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00088	12/19/17	09/19/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00010	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00010	08/14/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00629	10/21/17	07/24/17	Zero Air, Lot 12	15.463 L	ATTO15CALSTKi_00093	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,3-Trichlorobenzene	9.99806 ppb v/v
							1,2,3-Trichloropropane	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2,2,4-Trimethylpentane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methylbutane	9.99806 ppb v/v
							3-Chloropropene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Acetonitrile	9.99806 ppb v/v
							Acrolein	9.99806 ppb v/v
							Acrylonitrile	9.99806 ppb v/v
							Alpha Methyl Styrene	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoethene (Vinyl Bromide)	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dibromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Dodecane	9.99806 ppb v/v
							Ethyl acetate	9.99806 ppb v/v
							Ethyl ether	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Freon 22	9.99806 ppb v/v
							Freon TF	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butane	9.99806 ppb v/v
							n-Butanol	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Nonane	9.99806 ppb v/v
							n-Octane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							Pentane	9.99806 ppb v/v
							Propene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butyl alcohol	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Undecane	9.99806 ppb v/v
							Vinyl acetate	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene, o-	9.99806 ppb v/v
					ATTO15EthCALw_00085	464 mL	Ethanol	15.0036 ppb v/v
.ATTO15CALSTKi_00093	10/21/17	07/21/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATT015CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00085	10/24/17	07/24/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00008	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00008	09/05/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL4w_00653	12/19/17	10/19/17	Zero Air, Lot 12	15.463 L	ATTO15CALSTKi_00095	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2,2,4-Trimethylpentane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							3-Chloropropene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoethene (Vinyl Bromide)	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Freon 22	9.99806 ppb v/v
							Freon TF	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butane	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butyl alcohol	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15CALSTKi_00095	12/19/17	10/17/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATT015CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
ATTO15CAL5w_00069	12/17/17	09/19/17	Zero Air, Lot 12	15.463 L	ATTO15CALSTKi_00094	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	15.0036 ppb v/v
							1,2,3-Trichloropropane	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dibromoethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,2-Dichlorotetrafluoroethane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Butadiene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2,2,4-Trimethylpentane	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methylbutane	15.0036 ppb v/v
							3-Chloropropene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v
							4-Isopropyltoluene	15.0036 ppb v/v
							Acetone	15.0036 ppb v/v
							Acetonitrile	15.0036 ppb v/v
							Acrolein	15.0036 ppb v/v
							Acrylonitrile	15.0036 ppb v/v
							Alpha Methyl Styrene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	15.0036 ppb v/v
							Benzyl chloride	15.0036 ppb v/v
							Bromodichloromethane	15.0036 ppb v/v
							Bromoethene (Vinyl Bromide)	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,2-Dichloroethene	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cumene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dibromochloromethane	15.0036 ppb v/v
							Dibromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Dodecane	15.0036 ppb v/v
							Ethyl acetate	15.0036 ppb v/v
							Ethyl ether	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Freon 22	15.0036 ppb v/v
							Freon TF	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v
							m,p-Xylene	30.0071 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	15.0036 ppb v/v
							Methyl Ethyl Ketone	15.0036 ppb v/v
							methyl isobutyl ketone	15.0036 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v
							n-Butane	15.0036 ppb v/v
							n-Butanol	15.0036 ppb v/v
							n-Butylbenzene	15.0036 ppb v/v
							n-Decane	15.0036 ppb v/v
							n-Heptane	15.0036 ppb v/v
							n-Hexane	15.0036 ppb v/v
							n-Nonane	15.0036 ppb v/v
							n-Octane	15.0036 ppb v/v
							n-Propylbenzene	15.0036 ppb v/v
							Naphthalene	15.0036 ppb v/v
							Pentane	15.0036 ppb v/v
							Propene	15.0036 ppb v/v
							sec-Butylbenzene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v
							tert-Butyl alcohol	15.0036 ppb v/v
							tert-Butylbenzene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v
							trans-1,2-Dichloroethene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Undecane	15.0036 ppb v/v
							Vinyl acetate	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
							Xylene, o-	15.0036 ppb v/v
					ATTO15EthCALw_00088	620 mL	Ethanol	20.0479 ppb v/v
.ATTO15CALSTKi_00094	12/17/17	09/18/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
Xylene, o-	200 ppb v/v							
..ATTO15CALs_00026	12/19/17	Spectra Gases, Lot cc-90855			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00088	12/19/17	09/19/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00010	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00010	08/14/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL6w_00144	12/17/17	09/19/17	Zero Air, Lot 1	15.463 L	ATTO15CALSTKi_00094	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,3-Trichlorobenzene	19.9961 ppb v/v
							1,2,3-Trichloropropane	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dibromoethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,2-Dichlorotetrafluoroethane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Butadiene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2,2,4-Trimethylpentane	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methylbutane	19.9961 ppb v/v
							3-Chloropropene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Isopropyltoluene	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Acetonitrile	19.9961 ppb v/v
							Acrolein	19.9961 ppb v/v
							Acrylonitrile	19.9961 ppb v/v
							Alpha Methyl Styrene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Benzyl chloride	19.9961 ppb v/v
							Bromodichloromethane	19.9961 ppb v/v
							Bromoethene (Vinyl Bromide)	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	19.9961 ppb v/v
							cis-1,2-Dichloroethene	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cumene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dibromochloromethane	19.9961 ppb v/v
							Dibromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Dodecane	19.9961 ppb v/v
							Ethyl acetate	19.9961 ppb v/v
							Ethyl ether	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Freon 22	19.9961 ppb v/v
							Freon TF	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m,p-Xylene	39.9922 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	19.9961 ppb v/v
							Methyl Ethyl Ketone	19.9961 ppb v/v
							methyl isobutyl ketone	19.9961 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Butane	19.9961 ppb v/v
							n-Butanol	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	19.9961 ppb v/v
							n-Decane	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							n-Hexane	19.9961 ppb v/v
							n-Nonane	19.9961 ppb v/v
							n-Octane	19.9961 ppb v/v
							n-Propylbenzene	19.9961 ppb v/v
							Naphthalene	19.9961 ppb v/v
							Pentane	19.9961 ppb v/v
							Propene	19.9961 ppb v/v
							sec-Butylbenzene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							tert-Butyl alcohol	19.9961 ppb v/v
							tert-Butylbenzene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,2-Dichloroethene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Undecane	19.9961 ppb v/v
							Vinyl acetate	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
							Xylene, o-	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					ATTO15EthCALw_00088	1237 mL	Ethanol	39.9987 ppb v/v
.ATTO15CALSTKi_00094	12/17/17	09/18/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00026	12/19/17		Spectra Gases, Lot cc-90855		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00088	12/19/17	09/19/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00010	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00010	08/14/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15CAL7w_00071	12/17/17	09/19/17	Zero Air, Lot 12	15.463 L	ATTO15CALSTKi_00094	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,3-Trichlorobenzene	39.9922 ppb v/v
							1,2,3-Trichloropropane	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v
							1,2-Dibromoethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,2-Dichlorotetrafluoroethane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Butadiene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v
							2,2,4-Trimethylpentane	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methylbutane	39.9922 ppb v/v
							3-Chloropropene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Isopropyltoluene	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Acetonitrile	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrolein	39.9922 ppb v/v
							Acrylonitrile	39.9922 ppb v/v
							Alpha Methyl Styrene	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Benzyl chloride	39.9922 ppb v/v
							Bromodichloromethane	39.9922 ppb v/v
							Bromoethene (Vinyl Bromide)	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,2-Dichloroethene	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cumene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dibromochloromethane	39.9922 ppb v/v
							Dibromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Dodecane	39.9922 ppb v/v
							Ethyl acetate	39.9922 ppb v/v
							Ethyl ether	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	39.9922 ppb v/v
							Freon 22	39.9922 ppb v/v
							Freon TF	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m,p-Xylene	79.9845 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	39.9922 ppb v/v
							Methyl Ethyl Ketone	39.9922 ppb v/v
							methyl isobutyl ketone	39.9922 ppb v/v
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Butane	39.9922 ppb v/v
							n-Butanol	39.9922 ppb v/v
							n-Butylbenzene	39.9922 ppb v/v
							n-Decane	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							n-Hexane	39.9922 ppb v/v
							n-Nonane	39.9922 ppb v/v
							n-Octane	39.9922 ppb v/v
							n-Propylbenzene	39.9922 ppb v/v
							Naphthalene	39.9922 ppb v/v
							Pentane	39.9922 ppb v/v
							Propene	39.9922 ppb v/v
							sec-Butylbenzene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	39.9922 ppb v/v
							tert-Butyl alcohol	39.9922 ppb v/v
							tert-Butylbenzene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,2-Dichloroethene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Undecane	39.9922 ppb v/v
							Vinyl acetate	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
							Xylene, o-	39.9922 ppb v/v
					ATTO15EthCALw_00088	3092 mL	Ethanol	99.9806 ppb v/v
.ATTO15CALSTKi_00094	12/17/17	09/18/17	Zero Air, Lot 13	37.5 L	ATTO15CALs_00026	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	200 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	200 ppb v/v
							2-Methylbutane	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Acetonitrile	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dibromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butanol	200 ppb v/v
							n-Butylbenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15CALs_00026	12/19/17		Spectra Gases, Lot cc-90855		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methylbutane	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Acetonitrile	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dibromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Butane	1 ppm v/v
							n-Butanol	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Decane	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Nonane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v
.ATTO15EthCALw_00088	12/19/17	09/19/17	Zero Air, Lot 12	37.5 ppb	ATTO15EthCALs_00010	18.75 uL	Ethanol	500 ppb v/v
..ATTO15EthCALs_00010	08/14/18		Chem Service, Lot 5301900		(Purchased Reagent)		Ethanol	1 mL/mL
ATTO15LCSW_00712	11/11/17	08/23/17	Zero Air, Lot 13	15.463 L	ATTO15LCSSTKi_00086	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dibromoethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,2-Dichlorotetrafluoroethane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Butadiene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2,2,4-Trimethylpentane	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							3-Chloropropene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Isopropyltoluene	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Benzyl chloride	9.99806 ppb v/v
							Bromodichloromethane	9.99806 ppb v/v
							Bromoethene (Vinyl Bromide)	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,2-Dichloroethene	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cumene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	9.99806 ppb v/v
							Dibromochloromethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Freon 22	9.99806 ppb v/v
							Freon TF	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m,p-Xylene	19.9961 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	9.99806 ppb v/v
							Methyl Ethyl Ketone	9.99806 ppb v/v
							methyl isobutyl ketone	9.99806 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Butane	9.99806 ppb v/v
							n-Butylbenzene	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							n-Hexane	9.99806 ppb v/v
							n-Propylbenzene	9.99806 ppb v/v
							Naphthalene	9.99806 ppb v/v
							sec-Butylbenzene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							tert-Butyl alcohol	9.99806 ppb v/v
							tert-Butylbenzene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,2-Dichloroethene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
							Xylene, o-	9.99806 ppb v/v
.ATTO15LCSSTKi_00086	11/11/17	08/11/17	Zero Air, Lot 12	37.5 L	ATTO15LCSS_00020	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dibromoethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,2-Dichlorotetrafluoroethane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Butadiene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2,2,4-Trimethylpentane	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloropropene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Benzyl chloride	200 ppb v/v
							Bromodichloromethane	200 ppb v/v
							Bromoethene (Vinyl Bromide)	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cumene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dibromochloromethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Freon 22	200 ppb v/v
							Freon TF	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m,p-Xylene	400 ppb v/v
							Methyl Butyl Ketone (2-Hexanone)	200 ppb v/v
							Methyl Ethyl Ketone	200 ppb v/v
							methyl isobutyl ketone	200 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Butane	200 ppb v/v
							n-Butylbenzene	200 ppb v/v
							n-Heptane	200 ppb v/v
							n-Hexane	200 ppb v/v
							n-Propylbenzene	200 ppb v/v
							Naphthalene	200 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	200 ppb v/v
							tert-Butyl alcohol	200 ppb v/v
							tert-Butylbenzene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
							Xylene, o-	200 ppb v/v
..ATTO15LCSS_00020	12/19/17		Spectra Gases, Lot CC-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dibromoethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,2-Dichlorotetrafluoroethane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Butadiene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2,2,4-Trimethylpentane	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloropropene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Benzyl chloride	1 ppm v/v
							Bromodichloromethane	1 ppm v/v
							Bromoethene (Vinyl Bromide)	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cumene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dibromochloromethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Freon 22	1 ppm v/v
							Freon TF	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m,p-Xylene	2 ppm v/v
							Methyl Butyl Ketone (2-Hexanone)	1 ppm v/v
							Methyl Ethyl Ketone	1 ppm v/v
							methyl isobutyl ketone	1 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1

SDG No.: 200-40522-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butane	1 ppm v/v
							n-Butylbenzene	1 ppm v/v
							n-Heptane	1 ppm v/v
							n-Hexane	1 ppm v/v
							n-Propylbenzene	1 ppm v/v
							Naphthalene	1 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1 ppm v/v
							tert-Butyl alcohol	1 ppm v/v
							tert-Butylbenzene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
							Xylene, o-	1 ppm v/v

Method T015

Volatile Organic Compounds (GC/MS)
by Method T015

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Matrix: Air Level: Low Lab File ID: 27557-03.D
Lab ID: LCS 200-122480/3 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	12.1	121	68-128	
Freon 22	10.0	12.6	126	64-128	
1,2-Dichlorotetrafluoroethane	10.0	13.4	134	78-138	
Chloromethane	10.0	11.6	116	57-126	
n-Butane	10.0	11.8	118	56-130	
Vinyl chloride	10.0	11.8	118	62-125	
1,3-Butadiene	10.0	11.3	113	59-125	
Bromomethane	10.0	10.7	107	68-128	
Chloroethane	10.0	10.9	109	65-125	
Bromoethene (Vinyl Bromide)	10.0	10.1	101	67-127	
Trichlorofluoromethane	10.0	11.1	111	67-127	
Freon TF	10.0	10.5	105	68-128	
1,1-Dichloroethene	10.0	10.0	100	67-127	
Acetone	10.0	12.9	129	64-136	
Isopropyl alcohol	10.0	11.7	117	55-124	
Carbon disulfide	10.0	12.1	121	81-141	
3-Chloropropene	10.0	7.93	79	53-133	
Methylene Chloride	10.0	11.6	116	62-122	
tert-Butyl alcohol	10.0	11.5	115	64-124	
Methyl tert-butyl ether	10.0	10.8	108	67-127	
trans-1,2-Dichloroethene	10.0	11.9	119	72-132	
n-Hexane	10.0	11.4	114	71-131	
1,1-Dichloroethane	10.0	11.4	114	66-126	
Methyl Ethyl Ketone	10.0	10.6	106	62-122	
cis-1,2-Dichloroethene	10.0	10.2	102	67-127	
Chloroform	10.0	11.2	112	69-129	
Tetrahydrofuran	10.0	12.3	123	61-136	
1,1,1-Trichloroethane	10.0	11.2	112	70-130	
Cyclohexane	10.0	10.7	107	69-129	
Carbon tetrachloride	10.0	11.4	114	62-143	
2,2,4-Trimethylpentane	10.0	11.2	112	67-127	
Benzene	10.0	10.6	106	67-127	
1,2-Dichloroethane	10.0	12.0	120	67-132	
n-Heptane	10.0	11.4	114	62-130	
Trichloroethene	10.0	10.8	108	68-128	
Methyl methacrylate	10.0	11.0	110	70-130	
1,2-Dichloropropane	10.0	11.3	113	67-127	
1,4-Dioxane	10.0	11.5	115	66-132	
Bromodichloromethane	10.0	10.9	109	69-129	
cis-1,3-Dichloropropene	10.0	11.2	112	70-130	
methyl isobutyl ketone	10.0	11.4	114	62-130	
Toluene	10.0	10.3	103	67-127	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Matrix: Air Level: Low Lab File ID: 27557-03.D
 Lab ID: LCS 200-122480/3 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	10.0	11.3	113	69-129	
1,1,2-Trichloroethane	10.0	11.0	110	69-129	
Tetrachloroethene	10.0	9.97	100	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.8	108	61-127	
Dibromochloromethane	10.0	9.21	92	66-130	
1,2-Dibromoethane	10.0	10.7	107	70-130	
Chlorobenzene	10.0	10.3	103	68-128	
Ethylbenzene	10.0	10.5	105	68-128	
m,p-Xylene	20.0	20.5	103	68-128	
Xylene, o-	10.0	10.1	101	67-127	
Styrene	10.0	10.4	104	68-128	
Bromoform	10.0	6.98	70	34-170	
Cumene	10.0	10.3	103	67-127	
1,1,2,2-Tetrachloroethane	10.0	11.2	112	69-129	
n-Propylbenzene	10.0	10.9	109	67-127	
4-Ethyltoluene	10.0	10.9	109	69-129	
1,3,5-Trimethylbenzene	10.0	10.6	106	65-125	
2-Chlorotoluene	10.0	10.8	108	67-127	
tert-Butylbenzene	10.0	10.5	105	63-125	
1,2,4-Trimethylbenzene	10.0	10.8	108	65-125	
sec-Butylbenzene	10.0	10.7	107	66-126	
4-Isopropyltoluene	10.0	10.7	107	67-129	
1,3-Dichlorobenzene	10.0	10.8	108	67-127	
1,4-Dichlorobenzene	10.0	10.8	108	66-126	
Benzyl chloride	10.0	10.8	108	54-135	
n-Butylbenzene	10.0	11.5	115	67-127	
1,2-Dichlorobenzene	10.0	10.8	108	67-127	
1,2,4-Trichlorobenzene	10.0	12.0	120	59-126	
Hexachlorobutadiene	10.0	10.7	107	62-130	
Naphthalene	10.0	11.8	118	50-121	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Lab File ID: 27557-04.D Lab Sample ID: MB 200-122480/4
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: CHB.i Date Analyzed: 10/24/2017 13:57
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-122480/3	27557-03.D	10/24/2017 13:04
AGSG1S-G-39878	200-40522-1	27557-07.D	10/24/2017 16:37
AGSG1D-G-39879	200-40522-2	27557-08.D	10/24/2017 17:30
AGSG2S-G-39880	200-40522-3	27557-09.D	10/24/2017 18:23
AGSG2D-G-39881	200-40522-4	27557-10.D	10/24/2017 19:17
AGSG3S-G-39882	200-40522-5	27557-11.D	10/24/2017 20:11
AGSG3D-G-39883	200-40522-6	27557-12.D	10/24/2017 21:04
AGSG2DDUP-G-39884	200-40522-7	27557-13.D	10/24/2017 21:58
AGBKGD-G-39885	200-40522-8	27557-14.D	10/24/2017 22:51

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Lab File ID: 27339-01.D BFB Injection Date: 10/10/2017
 Instrument ID: CHB.i BFB Injection Time: 16:05
 Analysis Batch No.: 121987

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	11.9
75	30.0 - 66.0% of mass 95	37.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	102.2
175	4.0 - 9.0 % of mass 174	7.3 (7.1) 1
176	93.0 - 101.0% of mass 174	99.8 (97.7) 1
177	5.0 - 9.0% of mass 176	6.5 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-121987/4	27339-04.D	10/10/2017	18:40
	IC 200-121987/5	27339-05.D	10/10/2017	19:32
	IC 200-121987/7	27339-07.D	10/10/2017	21:17
	IC 200-121987/9	27339-09.D	10/10/2017	23:02
	ICIS 200-121987/10	27339-10.D	10/10/2017	23:54
	IC 200-121987/11	27339-11.D	10/11/2017	00:47
	IC 200-121987/12	27339-12.D	10/11/2017	01:39
	IC 200-121987/13	27339-13.D	10/11/2017	02:31
	ICV 200-121987/17	27339-17.D	10/11/2017	06:00

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Lab File ID: 27557-01.D BFB Injection Date: 10/24/2017
Instrument ID: CHB.i BFB Injection Time: 11:17
Analysis Batch No.: 122480

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.8
75	30.0 - 66.0% of mass 95	43.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	92.9
175	4.0 - 9.0 % of mass 174	6.6 (7.1) 1
176	93.0 - 101.0% of mass 174	90.9 (97.9) 1
177	5.0 - 9.0% of mass 176	5.8 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-122480/2	27557-02.D	10/24/2017	12:11
	LCS 200-122480/3	27557-03.D	10/24/2017	13:04
	MB 200-122480/4	27557-04.D	10/24/2017	13:57
AGSG1S-G-39878	200-40522-1	27557-07.D	10/24/2017	16:37
AGSG1D-G-39879	200-40522-2	27557-08.D	10/24/2017	17:30
AGSG2S-G-39880	200-40522-3	27557-09.D	10/24/2017	18:23
AGSG2D-G-39881	200-40522-4	27557-10.D	10/24/2017	19:17
AGSG3S-G-39882	200-40522-5	27557-11.D	10/24/2017	20:11
AGSG3D-G-39883	200-40522-6	27557-12.D	10/24/2017	21:04
AGSG2DDUP-G-39884	200-40522-7	27557-13.D	10/24/2017	21:58
AGBKGD-G-39885	200-40522-8	27557-14.D	10/24/2017	22:51

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Sample No.: ICIS 200-121987/10 Date Analyzed: 10/10/2017 23:54
 Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): 27339-10.D Heated Purge: (Y/N) N
 Calibration ID: 38201

	BCM		DFBZ		CBNZd5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	269848	9.70	1324986	11.11	1132584	15.22	
UPPER LIMIT	377787	10.03	1854980	11.44	1585618	15.55	
LOWER LIMIT	161909	9.37	794992	10.78	679550	14.89	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-121987/17		274066	9.70	1332179	11.11	1175594	15.22

BCM = Bromochloromethane
 DFBZ = 1,4-Difluorobenzene
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Sample No.: CCVIS 200-122480/2 Date Analyzed: 10/24/2017 12:11
 Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): 27557-02.D Heated Purge: (Y/N) N
 Calibration ID: 38201

		BCM		DFBZ		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		260937	9.70	1279874	11.11	1128195	15.22
UPPER LIMIT		365312	10.03	1791824	11.44	1579473	15.55
LOWER LIMIT		156562	9.37	767924	10.78	676917	14.89
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 200-122480/3		283129	9.71	1383746	11.11	1209920	15.22
MB 200-122480/4		297604	9.70	1493896	11.11	1126849	15.22
200-40522-1	AGSG1S-G-39878	244089	9.71	1134387	11.11	930421	15.21
200-40522-2	AGSG1D-G-39879	235022	9.70	1169158	11.11	985895	15.22
200-40522-3	AGSG2S-G-39880	232302	9.70	1144200	11.11	961646	15.22
200-40522-4	AGSG2D-G-39881	226221	9.70	1109228	11.11	937467	15.22
200-40522-5	AGSG3S-G-39882	234152	9.72	1149909	11.12	969764	15.22
200-40522-6	AGSG3D-G-39883	250810	9.74	1143341	11.12	965456	15.22
200-40522-7	AGSG2DDUP-G-39884	224511	9.70	1107290	11.11	922002	15.22
200-40522-8	AGBKGD-G-39885	216963	9.70	1073250	11.11	901762	15.22

BCM = Bromochloromethane
 DFBZ = 1,4-Difluorobenzene
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Client Sample ID: AGSG1S-G-39878 Lab Sample ID: 200-40522-1
 Matrix: Air Lab File ID: 27557-07.D
 Analysis Method: TO-15 Date Collected: 10/17/2017 17:35
 Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 16:37
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	12		5.0	1.6
106-97-8	n-Butane	58.12	19		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	120		50	13
67-63-0	Isopropyl alcohol	60.10	50	U	50	1.3
75-15-0	Carbon disulfide	76.14	35		5.0	0.28
107-05-1	3-Chloropropene	76.53	0.85	J	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.4		2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	5.0	U	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	3900	E	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	0.30	J	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	39		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	0.83	J	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG1S-G-39878</u>	Lab Sample ID: <u>200-40522-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-07.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:35</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 16:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	1.2	J	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	0.45	J	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	9.3		2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG1S-G-39878 Lab Sample ID: 200-40522-1
Matrix: Air Lab File ID: 27557-07.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:35
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 16:37
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG1S-G-39878</u>	Lab Sample ID: <u>200-40522-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-07.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:35</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 16:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	24		10	3.3
106-97-8	n-Butane	58.12	45		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	280		120	31
67-63-0	Isopropyl alcohol	60.10	120	U	120	3.2
75-15-0	Carbon disulfide	76.14	110		16	0.87
107-05-1	3-Chloropropene	76.53	2.7	J	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	8.4		7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	15	U	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	12000	E	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	1.9	J	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	130		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	3.3	J	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG1S-G-39878</u>	Lab Sample ID: <u>200-40522-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-07.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:35</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 16:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	4.5	J	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	2.0	J	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	46		9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG1S-G-39878 Lab Sample ID: 200-40522-1
Matrix: Air Lab File ID: 27557-07.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:35
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 16:37
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG1D-G-39879</u>	Lab Sample ID: <u>200-40522-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-08.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:36</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 17:30</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	11		5.0	1.6
106-97-8	n-Butane	58.12	31		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	0.92	J	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	50	U	50	13
67-63-0	Isopropyl alcohol	60.10	50	U	50	1.3
75-15-0	Carbon disulfide	76.14	79		5.0	0.28
107-05-1	3-Chloropropene	76.53	3.2	J	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	4.8		2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	5.0	U	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	580	E	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	0.58	J	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	68		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG1D-G-39879</u>	Lab Sample ID: <u>200-40522-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-08.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:36</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 17:30</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	1.4	J	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	0.45	J	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	5.1		2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG1D-G-39879 Lab Sample ID: 200-40522-2
Matrix: Air Lab File ID: 27557-08.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:36
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 17:30
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG1D-G-39879</u>	Lab Sample ID: <u>200-40522-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-08.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:36</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 17:30</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	23		10	3.3
106-97-8	n-Butane	58.12	73		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	2.0	J	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	120	U	120	31
67-63-0	Isopropyl alcohol	60.10	120	U	120	3.2
75-15-0	Carbon disulfide	76.14	250		16	0.87
107-05-1	3-Chloropropene	76.53	10	J	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	17		7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	15	U	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	1700	E	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	3.6	J	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	220		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG1D-G-39879</u>	Lab Sample ID: <u>200-40522-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-08.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:36</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 17:30</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	5.2	J	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	1.9	J	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	25		9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG1D-G-39879 Lab Sample ID: 200-40522-2
Matrix: Air Lab File ID: 27557-08.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:36
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 17:30
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG2S-G-39880</u>	Lab Sample ID: <u>200-40522-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-09.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:37</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 18:23</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	5.9		5.0	1.6
106-97-8	n-Butane	58.12	5.1		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	120		50	13
67-63-0	Isopropyl alcohol	60.10	50	U	50	1.3
75-15-0	Carbon disulfide	76.14	13		5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	42		5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	400		50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	2.0	U	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	14		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG2S-G-39880</u>	Lab Sample ID: <u>200-40522-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-09.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:37</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 18:23</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	0.53	J	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	0.36	J	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	8.7		2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG2S-G-39880 Lab Sample ID: 200-40522-3
Matrix: Air Lab File ID: 27557-09.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:37
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 18:23
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG2S-G-39880</u>	Lab Sample ID: <u>200-40522-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-09.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:37</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 18:23</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	12		10	3.3
106-97-8	n-Butane	58.12	12		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	290		120	31
67-63-0	Isopropyl alcohol	60.10	120	U	120	3.2
75-15-0	Carbon disulfide	76.14	40		16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	7.0	U	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	120		15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	1200		150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	13	U	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	43		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG2S-G-39880</u>	Lab Sample ID: <u>200-40522-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-09.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:37</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 18:23</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	2.0	J	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	1.6	J	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	43		9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG2S-G-39880 Lab Sample ID: 200-40522-3
Matrix: Air Lab File ID: 27557-09.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:37
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 18:23
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG2D-G-39881</u>	Lab Sample ID: <u>200-40522-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-10.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:38</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 19:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	5.0	U	5.0	1.6
106-97-8	n-Butane	58.12	5.0	U	5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	56		50	13
67-63-0	Isopropyl alcohol	60.10	50	U	50	1.3
75-15-0	Carbon disulfide	76.14	5.0	U	5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	11		5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	50	U	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	2.0	U	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	3.8		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG2D-G-39881</u>	Lab Sample ID: <u>200-40522-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-10.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:38</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 19:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	0.38	J	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	0.34	J	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	2.0		2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG2D-G-39881 Lab Sample ID: 200-40522-4
Matrix: Air Lab File ID: 27557-10.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:38
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 19:17
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG2D-G-39881</u>	Lab Sample ID: <u>200-40522-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-10.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:38</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 19:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	10	U	10	3.3
106-97-8	n-Butane	58.12	12	U	12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	130		120	31
67-63-0	Isopropyl alcohol	60.10	120	U	120	3.2
75-15-0	Carbon disulfide	76.14	16	U	16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	7.0	U	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	34		15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	150	U	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	13	U	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	12		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG2D-G-39881</u>	Lab Sample ID: <u>200-40522-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-10.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:38</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 19:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	1.4	J	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	1.5	J	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	10		9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG2D-G-39881 Lab Sample ID: 200-40522-4
Matrix: Air Lab File ID: 27557-10.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:38
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 19:17
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG3S-G-39882</u>	Lab Sample ID: <u>200-40522-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-11.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:39</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 20:11</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	8.7		5.0	1.6
106-97-8	n-Butane	58.12	18		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	98		50	13
67-63-0	Isopropyl alcohol	60.10	50	U	50	1.3
75-15-0	Carbon disulfide	76.14	36		5.0	0.28
107-05-1	3-Chloropropene	76.53	1.6	J	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.4		2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	5.0	U	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	1500	E	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	2.0	U	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	21		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG3S-G-39882</u>	Lab Sample ID: <u>200-40522-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-11.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:39</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 20:11</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	2.0	U	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	4.9		2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG3S-G-39882 Lab Sample ID: 200-40522-5
Matrix: Air Lab File ID: 27557-11.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:39
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 20:11
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG3S-G-39882</u>	Lab Sample ID: <u>200-40522-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-11.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:39</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 20:11</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	18		10	3.3
106-97-8	n-Butane	58.12	44		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	230		120	31
67-63-0	Isopropyl alcohol	60.10	120	U	120	3.2
75-15-0	Carbon disulfide	76.14	110		16	0.87
107-05-1	3-Chloropropene	76.53	5.1	J	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	8.6		7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	15	U	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	4400	E	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	13	U	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	68		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG3S-G-39882</u>	Lab Sample ID: <u>200-40522-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-11.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:39</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 20:11</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	7.5	U	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	24		9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG3S-G-39882 Lab Sample ID: 200-40522-5
Matrix: Air Lab File ID: 27557-11.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:39
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 20:11
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG3D-G-39883</u>	Lab Sample ID: <u>200-40522-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-12.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:40</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 21:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	44		5.0	1.6
106-97-8	n-Butane	58.12	32		5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	3.7	J	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	100		50	13
67-63-0	Isopropyl alcohol	60.10	5.5	J	50	1.3
75-15-0	Carbon disulfide	76.14	140		5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	22	J	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	0.83	J	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	5.0	U	5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	4600	E	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	0.96	J	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.6		2.0	0.43
71-43-2	Benzene	78.11	100		2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.2		2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG3D-G-39883</u>	Lab Sample ID: <u>200-40522-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-12.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:40</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 21:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	91		2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.3	J	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	0.61	J	2.0	0.34
179601-23-1	m,p-Xylene	106.17	1.3	J	5.0	0.77
95-47-6	Xylene, o-	106.17	0.64	J	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	7.0		2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG3D-G-39883 Lab Sample ID: 200-40522-6
Matrix: Air Lab File ID: 27557-12.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:40
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 21:04
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG3D-G-39883</u>	Lab Sample ID: <u>200-40522-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-12.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:40</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 21:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	90		10	3.3
106-97-8	n-Butane	58.12	76		12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	9.7	J	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	240		120	31
67-63-0	Isopropyl alcohol	60.10	13	J	120	3.2
75-15-0	Carbon disulfide	76.14	430		16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	67	J	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	2.9	J	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	15	U	15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	14000	E	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	6.0	J	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	12		9.3	2.0
71-43-2	Benzene	78.11	320		6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.9		8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG3D-G-39883</u>	Lab Sample ID: <u>200-40522-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-12.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:40</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 21:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	340		7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	9.4	J	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	2.6	J	8.7	1.5
179601-23-1	m,p-Xylene	106.17	5.5	J	22	3.3
95-47-6	Xylene, o-	106.17	2.8	J	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	34		9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG3D-G-39883 Lab Sample ID: 200-40522-6
Matrix: Air Lab File ID: 27557-12.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:40
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 21:04
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Client Sample ID: AGSG2DDUP-G-39884 Lab Sample ID: 200-40522-7
 Matrix: Air Lab File ID: 27557-13.D
 Analysis Method: TO-15 Date Collected: 10/17/2017 17:52
 Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 21:58
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	5.0	U	5.0	1.6
106-97-8	n-Butane	58.12	5.0	U	5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	14	J	50	13
67-63-0	Isopropyl alcohol	60.10	50	U	50	1.3
75-15-0	Carbon disulfide	76.14	5.0	U	5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	7.6		5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	29	J	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	2.0	U	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	0.72	J	2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	0.32	J	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG2DDUP-G-39884</u>	Lab Sample ID: <u>200-40522-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-13.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:52</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 21:58</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	2.0	U	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	2.0	U	2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG2DDUP-G-39884 Lab Sample ID: 200-40522-7
Matrix: Air Lab File ID: 27557-13.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:52
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 21:58
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Client Sample ID: AGSG2DDUP-G-39884 Lab Sample ID: 200-40522-7
 Matrix: Air Lab File ID: 27557-13.D
 Analysis Method: TO-15 Date Collected: 10/17/2017 17:52
 Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 21:58
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	10	U	10	3.3
106-97-8	n-Butane	58.12	12	U	12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	34	J	120	31
67-63-0	Isopropyl alcohol	60.10	120	U	120	3.2
75-15-0	Carbon disulfide	76.14	16	U	16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	7.0	U	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	22		15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	84	J	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	13	U	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	2.3	J	6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	1.7	J	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGSG2DDUP-G-39884</u>	Lab Sample ID: <u>200-40522-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-13.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 17:52</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 21:58</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	7.5	U	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	9.8	U	9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGSG2DDUP-G-39884 Lab Sample ID: 200-40522-7
Matrix: Air Lab File ID: 27557-13.D
Analysis Method: TO-15 Date Collected: 10/17/2017 17:52
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 21:58
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGBKGD-G-39885</u>	Lab Sample ID: <u>200-40522-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-14.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 18:00</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 22:51</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	5.0	U	5.0	0.47
75-45-6	Freon 22	86.47	5.0	U	5.0	2.0
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	2.0	U	2.0	0.41
74-87-3	Chloromethane	50.49	5.0	U	5.0	1.6
106-97-8	n-Butane	58.12	5.0	U	5.0	0.46
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.18
106-99-0	1,3-Butadiene	54.09	2.0	U	2.0	0.37
74-83-9	Bromomethane	94.94	2.0	U	2.0	0.36
75-00-3	Chloroethane	64.52	5.0	U	5.0	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	2.0	U	2.0	0.22
75-69-4	Trichlorofluoromethane	137.37	2.0	U	2.0	0.31
76-13-1	Freon TF	187.38	2.0	U	2.0	0.27
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	0.35
67-64-1	Acetone	58.08	58		50	13
67-63-0	Isopropyl alcohol	60.10	50	U	50	1.3
75-15-0	Carbon disulfide	76.14	5.0	U	5.0	0.28
107-05-1	3-Chloropropene	76.53	5.0	U	5.0	0.63
75-09-2	Methylene Chloride	84.93	5.0	U	5.0	0.68
75-65-0	tert-Butyl alcohol	74.12	50	U	50	17
1634-04-4	Methyl tert-butyl ether	88.15	2.0	U	2.0	0.41
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	0.50
110-54-3	n-Hexane	86.17	2.0	U	2.0	0.46
75-34-3	1,1-Dichloroethane	98.96	2.0	U	2.0	0.17
78-93-3	Methyl Ethyl Ketone	72.11	17		5.0	1.1
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	0.29
67-66-3	Chloroform	119.38	2.0	U	2.0	0.25
109-99-9	Tetrahydrofuran	72.11	32	J	50	12
71-55-6	1,1,1-Trichloroethane	133.41	2.0	U	2.0	0.26
110-82-7	Cyclohexane	84.16	2.0	U	2.0	0.45
56-23-5	Carbon tetrachloride	153.81	2.0	U	2.0	0.11
540-84-1	2,2,4-Trimethylpentane	114.23	2.0	U	2.0	0.43
71-43-2	Benzene	78.11	2.0	U	2.0	0.28
107-06-2	1,2-Dichloroethane	98.96	2.0	U	2.0	0.34
142-82-5	n-Heptane	100.21	2.0	U	2.0	0.68
79-01-6	Trichloroethene	131.39	2.0	U	2.0	0.091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGBKGD-G-39885</u>	Lab Sample ID: <u>200-40522-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-14.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 18:00</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 22:51</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	112.99	2.0	U	2.0	0.35
123-91-1	1,4-Dioxane	88.11	50	U	50	7.6
75-27-4	Bromodichloromethane	163.83	2.0	U	2.0	0.59
10061-01-5	cis-1,3-Dichloropropene	110.97	2.0	U	2.0	0.36
108-10-1	methyl isobutyl ketone	100.16	5.0	U	5.0	0.65
108-88-3	Toluene	92.14	2.0	U	2.0	0.35
10061-02-6	trans-1,3-Dichloropropene	110.97	2.0	U	2.0	0.38
79-00-5	1,1,2-Trichloroethane	133.41	2.0	U	2.0	0.17
127-18-4	Tetrachloroethene	165.83	2.0	U	2.0	0.098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	5.0	U	5.0	0.86
124-48-1	Dibromochloromethane	208.29	2.0	U	2.0	0.17
106-93-4	1,2-Dibromoethane	187.87	2.0	U	2.0	0.23
108-90-7	Chlorobenzene	112.56	2.0	U	2.0	0.25
100-41-4	Ethylbenzene	106.17	2.0	U	2.0	0.34
179601-23-1	m,p-Xylene	106.17	5.0	U	5.0	0.77
95-47-6	Xylene, o-	106.17	2.0	U	2.0	0.40
100-42-5	Styrene	104.15	2.0	U	2.0	0.35
75-25-2	Bromoform	252.75	2.0	U	2.0	0.35
98-82-8	Cumene	120.19	2.0	U	2.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	167.85	2.0	U	2.0	0.26
103-65-1	n-Propylbenzene	120.19	2.0	U	2.0	0.40
622-96-8	4-Ethyltoluene	120.20	2.0	U	2.0	0.40
108-67-8	1,3,5-Trimethylbenzene	120.20	2.0	U	2.0	0.40
95-49-8	2-Chlorotoluene	126.59	2.0	U	2.0	0.35
98-06-6	tert-Butylbenzene	134.22	2.0	U	2.0	0.37
95-63-6	1,2,4-Trimethylbenzene	120.20	2.0	U	2.0	0.57
135-98-8	sec-Butylbenzene	134.22	2.0	U	2.0	0.37
99-87-6	4-Isopropyltoluene	134.22	2.0	U	2.0	0.52
541-73-1	1,3-Dichlorobenzene	147.00	2.0	U	2.0	0.50
106-46-7	1,4-Dichlorobenzene	147.00	2.0	U	2.0	0.63
100-44-7	Benzyl chloride	126.58	2.0	U	2.0	0.67
104-51-8	n-Butylbenzene	134.22	2.0	U	2.0	0.68
95-50-1	1,2-Dichlorobenzene	147.00	2.0	U	2.0	0.45

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGBKGD-G-39885 Lab Sample ID: 200-40522-8
Matrix: Air Lab File ID: 27557-14.D
Analysis Method: TO-15 Date Collected: 10/17/2017 18:00
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 22:51
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	5.0	U	5.0	1.9
87-68-3	Hexachlorobutadiene	260.76	2.0	U	2.0	0.64
91-20-3	Naphthalene	128.17	5.0	U	5.0	1.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGBKGD-G-39885</u>	Lab Sample ID: <u>200-40522-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-14.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 18:00</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 22:51</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	25	U	25	2.3
75-45-6	Freon 22	86.47	18	U	18	7.1
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	14	U	14	2.9
74-87-3	Chloromethane	50.49	10	U	10	3.3
106-97-8	n-Butane	58.12	12	U	12	1.1
75-01-4	Vinyl chloride	62.50	5.1	U	5.1	0.46
106-99-0	1,3-Butadiene	54.09	4.4	U	4.4	0.82
74-83-9	Bromomethane	94.94	7.8	U	7.8	1.4
75-00-3	Chloroethane	64.52	13	U	13	3.4
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.7	U	8.7	0.96
75-69-4	Trichlorofluoromethane	137.37	11	U	11	1.7
76-13-1	Freon TF	187.38	15	U	15	2.1
75-35-4	1,1-Dichloroethene	96.94	7.9	U	7.9	1.4
67-64-1	Acetone	58.08	140		120	31
67-63-0	Isopropyl alcohol	60.10	120	U	120	3.2
75-15-0	Carbon disulfide	76.14	16	U	16	0.87
107-05-1	3-Chloropropene	76.53	16	U	16	2.0
75-09-2	Methylene Chloride	84.93	17	U	17	2.4
75-65-0	tert-Butyl alcohol	74.12	150	U	150	52
1634-04-4	Methyl tert-butyl ether	88.15	7.2	U	7.2	1.5
156-60-5	trans-1,2-Dichloroethene	96.94	7.9	U	7.9	2.0
110-54-3	n-Hexane	86.17	7.0	U	7.0	1.6
75-34-3	1,1-Dichloroethane	98.96	8.1	U	8.1	0.69
78-93-3	Methyl Ethyl Ketone	72.11	50		15	3.2
156-59-2	cis-1,2-Dichloroethene	96.94	7.9	U	7.9	1.1
67-66-3	Chloroform	119.38	9.8	U	9.8	1.2
109-99-9	Tetrahydrofuran	72.11	93	J	150	35
71-55-6	1,1,1-Trichloroethane	133.41	11	U	11	1.4
110-82-7	Cyclohexane	84.16	6.9	U	6.9	1.5
56-23-5	Carbon tetrachloride	153.81	13	U	13	0.69
540-84-1	2,2,4-Trimethylpentane	114.23	9.3	U	9.3	2.0
71-43-2	Benzene	78.11	6.4	U	6.4	0.89
107-06-2	1,2-Dichloroethane	98.96	8.1	U	8.1	1.4
142-82-5	n-Heptane	100.21	8.2	U	8.2	2.8
79-01-6	Trichloroethene	131.39	11	U	11	0.49

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: <u>AGBKGD-G-39885</u>	Lab Sample ID: <u>200-40522-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-14.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: <u>10/17/2017 18:00</u>
Sample wt/vol: <u>20 (mL)</u>	Date Analyzed: <u>10/24/2017 22:51</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	20	U	20	4.5
78-87-5	1,2-Dichloropropane	112.99	9.2	U	9.2	1.6
123-91-1	1,4-Dioxane	88.11	180	U	180	27
75-27-4	Bromodichloromethane	163.83	13	U	13	4.0
10061-01-5	cis-1,3-Dichloropropene	110.97	9.1	U	9.1	1.6
108-10-1	methyl isobutyl ketone	100.16	20	U	20	2.7
108-88-3	Toluene	92.14	7.5	U	7.5	1.3
10061-02-6	trans-1,3-Dichloropropene	110.97	9.1	U	9.1	1.7
79-00-5	1,1,2-Trichloroethane	133.41	11	U	11	0.93
127-18-4	Tetrachloroethene	165.83	14	U	14	0.66
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	20	U	20	3.5
124-48-1	Dibromochloromethane	208.29	17	U	17	1.4
106-93-4	1,2-Dibromoethane	187.87	15	U	15	1.8
108-90-7	Chlorobenzene	112.56	9.2	U	9.2	1.2
100-41-4	Ethylbenzene	106.17	8.7	U	8.7	1.5
179601-23-1	m,p-Xylene	106.17	22	U	22	3.3
95-47-6	Xylene, o-	106.17	8.7	U	8.7	1.7
100-42-5	Styrene	104.15	8.5	U	8.5	1.5
75-25-2	Bromoform	252.75	21	U	21	3.6
98-82-8	Cumene	120.19	9.8	U	9.8	1.9
79-34-5	1,1,2,2-Tetrachloroethane	167.85	14	U	14	1.8
103-65-1	n-Propylbenzene	120.19	9.8	U	9.8	2.0
622-96-8	4-Ethyltoluene	120.20	9.8	U	9.8	2.0
108-67-8	1,3,5-Trimethylbenzene	120.20	9.8	U	9.8	2.0
95-49-8	2-Chlorotoluene	126.59	10	U	10	1.8
98-06-6	tert-Butylbenzene	134.22	11	U	11	2.0
95-63-6	1,2,4-Trimethylbenzene	120.20	9.8	U	9.8	2.8
135-98-8	sec-Butylbenzene	134.22	11	U	11	2.0
99-87-6	4-Isopropyltoluene	134.22	11	U	11	2.9
541-73-1	1,3-Dichlorobenzene	147.00	12	U	12	3.0
106-46-7	1,4-Dichlorobenzene	147.00	12	U	12	3.8
100-44-7	Benzyl chloride	126.58	10	U	10	3.5
104-51-8	n-Butylbenzene	134.22	11	U	11	3.7
95-50-1	1,2-Dichlorobenzene	147.00	12	U	12	2.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: AGBKGD-G-39885 Lab Sample ID: 200-40522-8
Matrix: Air Lab File ID: 27557-14.D
Analysis Method: TO-15 Date Collected: 10/17/2017 18:00
Sample wt/vol: 20 (mL) Date Analyzed: 10/24/2017 22:51
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	37	U	37	14
87-68-3	Hexachlorobutadiene	260.76	21	U	21	6.8
91-20-3	Naphthalene	128.17	26	U	26	5.2

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-40522-1 Analy Batch No.: 121987

SDG No.: 200-40522-1

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 18:40 Calibration End Date: 10/11/2017 02:31 Calibration ID: 38201

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-121987/4	27339-04.D
Level 2	IC 200-121987/5	27339-05.D
Level 3	IC 200-121987/7	27339-07.D
Level 4	IC 200-121987/9	27339-09.D
Level 5	ICIS 200-121987/10	27339-10.D
Level 6	IC 200-121987/11	27339-11.D
Level 7	IC 200-121987/12	27339-12.D
Level 8	IC 200-121987/13	27339-13.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Propylene	+++++	+++++	+++++	0.5060	0.3899	Ave		0.3938				17.5		30.0			
	0.3925	0.3601	0.3206														
Dichlorodifluoromethane	+++++	+++++	1.8855	2.0239	1.6138	Ave		1.6885				13.5		30.0			
	1.6495	1.5656	1.3930														
Freon 22	+++++	+++++	0.9809	1.0481	0.8197	Ave		0.8625				15.0		30.0			
	0.8408	0.7857	0.6998														
1,2-Dichlorotetrafluoroethane	+++++	1.6508	1.9705	2.1618	1.7312	Ave		1.7940				11.9		30.0			
	1.8046	1.7187	1.5203														
Chloromethane	+++++	+++++	0.6505	0.6796	0.5326	Ave		0.5652				14.7		30.0			
	0.5519	0.5119	0.4644														
n-Butane	+++++	+++++	1.1477	1.1759	0.9150	Ave		0.9620				17.3		30.0			
	0.9233	0.8530	0.7570														
Vinyl chloride	0.6402	0.6925	0.7979	0.8885	0.7067	Ave		0.7238				11.8		30.0			
	0.7384	0.7008	0.6250														
1,3-Butadiene	0.5413	0.5348	0.6002	0.6673	0.5277	Ave		0.5476				11.4		30.0			
	0.5408	0.5129	0.4556														
Bromomethane	+++++	0.8342	0.9167	1.0250	0.8369	Ave		0.8798				8.7		30.0			
	0.8913	0.8668	0.7875														
Chloroethane	+++++	+++++	0.5181	0.5572	0.4590	Ave		0.4834				10.2		30.0			
	0.4876	0.4611	0.4176														
Isopentane	+++++	1.0136	1.0692	1.1002	0.8589	Ave		0.9226				15.2		30.0			
	0.8740	0.8161	0.7262														
Bromoethene (Vinyl Bromide)	+++++	0.8977	1.0030	1.1163	0.9178	Ave		0.9698				8.1		30.0			
	0.9893	0.9710	0.8931														
Trichlorofluoromethane	+++++	1.8674	2.1168	2.3574	1.8906	Ave		1.9879				10.0		30.0			
	2.0058	1.9291	1.7483														
n-Pentane	+++++	+++++	1.7431	1.7218	1.3540	Ave		1.4338				17.1		30.0			
	1.3630	1.2797	1.1413														

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-40522-1 Analy Batch No.: 121987
SDG No.: 200-40522-1
Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/10/2017 18:40 Calibration End Date: 10/11/2017 02:31 Calibration ID: 38201

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	++++ 0.4086	++++ 0.3616	0.5485 0.3076	0.5099	0.4171	Ave		0.4255				21.2		30.0			
Ethyl ether	++++ 0.6154	0.5886 0.5843	0.6681 0.5256	0.7305	0.5812	Ave		0.6134				10.9		30.0			
Acrolein	++++ 0.2921	++++ 0.2822	++++ 0.2544	0.3409	0.2508	Ave		0.2841				12.8		30.0			
Freon TF	++++ 1.8433	1.7276 1.7996	1.9678 1.6347	2.1418	1.7230	Ave		1.8340				9.4		30.0			
1,1-Dichloroethene	++++ 0.9372	0.9210 0.9135	1.0026 0.8379	1.0766	0.8689	Ave		0.9368				8.6		30.0			
Acetone	++++ 1.0725	++++ 0.9919	++++ 0.8845	1.3926	1.1196	Ave		1.0922				17.4		30.0			
Isopropyl alcohol	++++ 1.3073	++++ 1.2233	++++ 1.0814	1.6902	1.2837	Ave		1.3172				17.2		30.0			
Carbon disulfide	++++ 2.4643	++++ 2.3752	++++ 2.1479	2.8932	2.3251	Ave		2.4796				10.7		30.0			
3-Chloropropene	++++ 1.0496	1.0331 1.0084	1.0572 0.8899	1.3280	1.0479	Ave		1.0591				12.5		30.0			
Acetonitrile	++++ 0.6666	++++ 0.5959	++++ 0.5446	0.8174	0.6324	Ave		0.6514				15.8		30.0			
Methylene Chloride	++++ 0.8791	++++ 0.8252	1.0145 0.7464	1.0858	0.8478	Ave		0.8998				14.1		30.0			
tert-Butyl alcohol	++++ 1.8184	++++ 1.7204	++++ 1.5414	2.2639	1.7476	Ave		1.8183				14.8		30.0			
Methyl tert-butyl ether	++++ 2.5601	2.4650 2.4535	2.7710 2.2136	3.0254	2.4275	Ave		2.5594				10.3		30.0			
trans-1,2-Dichloroethene	++++ 1.2152	1.1875 1.1583	1.2748 1.0546	1.4668	1.1576	Ave		1.2164				10.6		30.0			
Acrylonitrile	++++ 0.6445	++++ 0.6140	0.6919 0.5573	0.7777	0.6177	Ave		0.6505				11.7		30.0			
n-Hexane	++++ 1.3949	1.6330 1.3236	1.6614 1.1972	1.6854	1.3444	Ave		1.4628				13.3		30.0			
1,1-Dichloroethane	1.6173 1.5963	1.5002 1.5205	1.7427 1.3781	1.9348	1.5186	Ave		1.6011				10.7		30.0			
Vinyl acetate	++++ 2.0626	++++ 1.9095	++++ 1.7090	2.5663	1.9381	Ave		2.0371				15.8		30.0			
Methyl Ethyl Ketone	++++ 0.5045	++++ 0.4850	0.6253 0.4376	0.5956	0.4844	Ave		0.5221				13.9		30.0			
cis-1,2-Dichloroethene	++++ 1.0900	1.0243 1.0632	1.1577 0.9686	1.2507	1.0209	Ave		1.0822				8.8		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-40522-1 Analy Batch No.: 121987
SDG No.: 200-40522-1
Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/10/2017 18:40 Calibration End Date: 10/11/2017 02:31 Calibration ID: 38201

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	++++ 0.0904	++++ 0.0880	++++ 0.0801	0.1028	0.0831	Ave		0.0889				9.9		30.0			
Tetrahydrofuran	++++ 0.1984	++++ 0.1851	++++ 0.1702	0.2464	0.1913	Ave		0.1983				14.5		30.0			
Chloroform	++++ 1.8272	1.7584 1.7477	1.9692 1.5866	2.1481	1.7278	Ave		1.8236				10.1		30.0			
1,1,1-Trichloroethane	++++ 0.3622	0.3465 0.3517	0.3829 0.3271	0.4227	0.3417	Ave		0.3621				8.8		30.0			
Cyclohexane	++++ 0.2887	0.2644 0.2825	0.3020 0.2663	0.3316	0.2692	Ave		0.2864				8.4		30.0			
Carbon tetrachloride	0.3462 0.3757	0.3170 0.3691	0.3565 0.3412	0.4291	0.3471	Ave		0.3602				9.2		30.0			
2,2,4-Trimethylpentane	++++ 0.9726	0.9525 0.9235	1.0571 0.8587	1.1516	0.9188	Ave		0.9764				10.0		30.0			
Benzene	++++ 0.6434	0.6484 0.6237	0.6982 0.5859	0.7393	0.6008	Ave		0.6485				8.3		30.0			
1,2-Dichloroethane	++++ 0.2020	0.1903 0.1925	0.2186 0.1803	0.2422	0.1925	Ave		0.2026				10.4		30.0			
n-Heptane	++++ 0.3311	0.3580 0.3126	0.3852 0.2871	0.4094	0.3245	Ave		0.3440				12.4		30.0			
n-Butanol	++++ 0.1242	++++ 0.1190	++++ 0.1120	0.1577	0.1183	Ave		0.1262				14.4		30.0			
Trichloroethene	0.2739 0.2793	0.2480 0.2704	0.2956 0.2569	0.3164	0.2596	Ave		0.2750				8.1		30.0			
1,2-Dichloropropane	++++ 0.2366	0.2217 0.2252	0.2397 0.2109	0.2773	0.2236	Ave		0.2336				9.2		30.0			
Methyl methacrylate	++++ 0.2334	++++ 0.2249	++++ 0.2113	0.2474	0.2700	Ave		0.2345				9.1		30.0			
1,4-Dioxane	++++ 0.1317	++++ 0.1280	++++ 0.1185	0.1619	0.1283	Ave		0.1337				12.3		30.0			
Dibromomethane	++++ 0.3076	0.3034 0.3039	0.3165 0.2872	0.3346	0.2828	Ave		0.3052				5.7		30.0			
Bromodichloromethane	++++ 0.4214	0.3832 0.4059	0.4235 0.3819	0.4900	0.3968	Ave		0.4147				8.9		30.0			
cis-1,3-Dichloropropene	++++ 0.3529	0.3128 0.3400	0.3546 0.3202	0.4045	0.3302	Ave		0.3450				8.8		30.0			
methyl isobutyl ketone	++++ 0.4232	++++ 0.3956	0.4976 0.3664	0.5169	0.4094	Ave		0.4348				13.7		30.0			
n-Octane	++++ 0.4639	0.4628 0.4297	0.5382 0.3813	0.5777	0.4542	Ave		0.4725				13.9		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-40522-1 Analy Batch No.: 121987
SDG No.: 200-40522-1
Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/10/2017 18:40 Calibration End Date: 10/11/2017 02:31 Calibration ID: 38201

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Toluene	++++ 0.5608	0.5661 0.5545	0.6426 0.5199	0.6363	0.5386	Ave		0.5741				8.2		30.0			
trans-1,3-Dichloropropene	++++ 0.3359	0.2887 0.3239	0.3178 0.3032	0.3843	0.3144	Ave		0.3240				9.4		30.0			
1,1,2-Trichloroethane	++++ 0.2680	0.2556 0.2626	0.2982 0.2496	0.3116	0.2605	Ave		0.2723				8.6		30.0			
Tetrachloroethene	0.5312 0.5113	0.4585 0.5141	0.5303 0.4961	0.5608	0.4865	Ave		0.5111				6.1		30.0			
Methyl Butyl Ketone (2-Hexanone)	++++ 0.4619	++++ 0.4375	0.7313 0.4108	0.5675	0.4570	Ave		0.5110				23.6		30.0			
Dibromochloromethane	++++ 0.5658	0.4820 0.5630	0.5481 0.5381	0.6383	0.5398	Ave		0.5536				8.4		30.0			
1,2-Dibromoethane	++++ 0.5127	0.4575 0.5061	0.5293 0.4839	0.5754	0.4913	Ave		0.5080				7.4		30.0			
Chlorobenzene	++++ 0.7834	0.7264 0.7797	0.8377 0.7429	0.8731	0.7484	Ave		0.7845				6.8		30.0			
Ethylbenzene	++++ 1.2066	1.2266 1.1846	1.3383 1.1003	1.3679	1.1561	Ave		1.2258				7.8		30.0			
n-Nonane	++++ 0.5457	0.5159 0.5206	0.6248 0.4752	0.6479	0.5383	Ave		0.5526				11.2		30.0			
m,p-Xylene	++++ 0.5049	0.4684 0.4967	0.5251 0.4659	0.5592	0.4811	Ave		0.5002				6.7		30.0			
Xylene, o-	++++ 0.4971	0.4825 0.4905	0.5380 0.4633	0.5547	0.4769	Ave		0.5004				6.7		30.0			
Styrene	++++ 0.7884	0.6562 0.7780	0.7949 0.7392	0.8671	0.7500	Ave		0.7677				8.4		30.0			
Bromoform	++++ 0.5806	0.4558 0.5908	0.4972 0.5634	0.6553	0.5562	Ave		0.5570				11.6		30.0			
Cumene	++++ 1.3973	1.2880 1.3725	1.4819 1.2790	1.5770	1.3400	Ave		1.3908				7.7		30.0			
1,1,2,2-Tetrachloroethane	++++ 0.7113	0.6452 0.6937	0.7603 0.6295	0.8150	0.6921	Ave		0.7067				9.1		30.0			
n-Propylbenzene	++++ 1.6516	1.4827 1.5930	1.7267 1.4144	1.8651	1.5951	Ave		1.6184				9.3		30.0			
1,2,3-Trichloropropane	++++ 0.5094	++++ 0.4929	0.5663 0.4405	0.5860	0.4947	Ave		0.5150				10.3		30.0			
n-Decane	++++ 0.6744	++++ 0.6275	0.7586 0.5892	0.8226	0.6811	Ave		0.6922				12.4		30.0			
4-Ethyltoluene	++++ 1.3843	1.2273 1.3307	1.4453 1.2269	1.5441	1.3322	Ave		1.3559				8.4		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-40522-1 Analy Batch No.: 121987
SDG No.: 200-40522-1
Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/10/2017 18:40 Calibration End Date: 10/11/2017 02:31 Calibration ID: 38201

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	++++ 1.0831	0.9924 1.0562	1.1528 0.9874	1.2178	1.0454	Ave		1.0764				7.8		30.0			
1,3,5-Trimethylbenzene	++++ 1.1296	1.0292 1.0522	1.1843 1.0305	1.2790	1.0927	Ave		1.1139				8.3		30.0			
Alpha Methyl Styrene	++++ 0.6003	0.4763 0.5723	0.5894 0.5606	0.6582	0.5699	Ave		0.5753				9.5		30.0			
tert-Butylbenzene	++++ 1.1009	1.0290 1.0494	1.1831 1.0074	1.2755	1.0783	Ave		1.1034				8.6		30.0			
1,2,4-Trimethylbenzene	++++ 1.0960	1.0071 1.0389	1.1761 1.0178	1.2667	1.0895	Ave		1.0989				8.5		30.0			
sec-Butylbenzene	++++ 1.6279	1.5842 1.5618	1.8266 1.5086	1.9375	1.6372	Ave		1.6691				9.3		30.0			
4-Isopropyltoluene	++++ 1.3327	1.2694 1.3355	1.4997 1.3291	1.6181	1.3768	Ave		1.3945				8.7		30.0			
1,3-Dichlorobenzene	++++ 0.8017	0.6569 0.7646	0.8155 0.7717	0.8839	0.7906	Ave		0.7836				8.7		30.0			
1,4-Dichlorobenzene	++++ 0.7825	0.6452 0.7488	0.8019 0.7752	0.8697	0.7837	Ave		0.7725				8.7		30.0			
Benzyl chloride	++++ 0.8545	0.6779 0.8189	0.6500 0.8254	1.0017	0.8236	Ave		0.8074				14.5		30.0			
n-Undecane	++++ 0.6918	++++ 0.6769	++++ 0.6303	0.8028	0.6321	Ave		0.6868				10.2		30.0			
n-Butylbenzene	++++ 1.1281	0.9959 1.1432	1.2560 1.1138	1.3874	1.1644	Ave		1.1698				10.5		30.0			
1,2-Dichlorobenzene	++++ 0.7229	0.6455 0.7041	0.7655 0.7260	0.8360	0.7367	Ave		0.7338				7.9		30.0			
n-Dodecane	++++ 0.3500	++++ 0.3597	++++ 0.3318	0.3101	0.2653	Ave		0.3234				11.6		30.0			
1,2,4-Trichlorobenzene	++++ 0.3745	++++ 0.4051	0.1447 0.4576	0.2607	0.3464	Ave		0.3315				33.9	*	30.0			
Hexachlorobutadiene	++++ 0.4844	0.4011 0.4970	0.5078 0.4713	0.5139	0.4643	Ave		0.4771				8.0		30.0			
Naphthalene	++++ 0.7609	++++ 0.8160	0.2631 0.9366	0.4788	0.6851	Ave		0.6567				37.4	*	30.0			
1,2,3-Trichlorobenzene	++++ 0.2365	++++ 0.2743	0.0682 0.3193	0.1453	0.2425	Ave		0.2144				42.8	*	30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-40522-1 Analy Batch No.: 121987

SDG No.: 200-40522-1

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 18:40 Calibration End Date: 10/11/2017 02:31 Calibration ID: 38201

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-121987/4	27339-04.D
Level 2	IC 200-121987/5	27339-05.D
Level 3	IC 200-121987/7	27339-07.D
Level 4	IC 200-121987/9	27339-09.D
Level 5	ICIS 200-121987/10	27339-10.D
Level 6	IC 200-121987/11	27339-11.D
Level 7	IC 200-121987/12	27339-12.D
Level 8	IC 200-121987/13	27339-13.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 162480	++++ 210659	++++ 392749	61322	105201	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	++++ 682808	++++ 915820	23734 1706221	245287	435388	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	++++ 348070	++++ 459572	12347 857213	127031	221162	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 747021	8915 1005364	24804 1862162	261996	467082	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	++++ 228462	++++ 299461	8188 568817	82369	143701	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	++++ 382218	++++ 498948	14447 927198	142515	246866	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	686 305646	3740 409966	10044 765577	107688	190676	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	580 223881	2888 300005	7555 558087	80874	142363	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	++++ 368941	4505 507054	11539 964567	124228	225788	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	++++ 201842	++++ 269734	6521 511473	67529	123823	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	++++ 361803	5474 477370	13459 889561	133340	231724	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 409542	4848 568006	12625 1093928	135293	247619	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	++++ 830312	10085 1128461	26645 2141415	285707	510088	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	++++ 564207	++++ 748594	21941 1398024	208674	365311	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	++++ 226028	++++ 423065	69129 941807	123682	168860	++++ 20.0	++++ 40.0	5.01 100.0	9.99	15.0

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-40522-1 Analy Batch No.: 121987

SDG No.: 200-40522-1

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 18:40 Calibration End Date: 10/11/2017 02:31 Calibration ID: 38201

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	++++ 254731	3179 341819	8410 643766	88536	156816	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	++++ 120926	++++ 165068	++++ 311608	41316	67672	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	++++ 763020	9330 1052687	24770 2002276	259571	464863	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	++++ 387975	4974 534381	12620 1026347	130478	234430	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	++++ 443984	++++ 580222	++++ 1083377	168772	302069	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	++++ 541168	++++ 715551	++++ 1324574	204848	346350	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	++++ 1020100	++++ 1389372	33632 2630902	350647	627313	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	++++ 434476	5579 589877	13307 1090031	160953	282715	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	++++ 275930	++++ 348553	++++ 667090	99065	170617	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	++++ 363924	++++ 482709	12770 914268	131591	228720	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	++++ 752743	++++ 1006374	++++ 1888065	274371	471496	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	++++ 1059761	13312 1435214	34880 2711385	366667	654930	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	++++ 503020	6413 677566	16047 1291793	177764	312327	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	++++ 266782	++++ 359153	8709 682640	94256	166658	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	++++ 577414	8819 774233	20913 1466481	204257	362708	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	1733 660809	8102 889399	21936 1688081	234493	409716	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	++++ 853833	++++ 1116968	++++ 2093382	311026	522894	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	++++ 208839	++++ 283721	7871 536049	72189	130692	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	++++ 451216	5532 621928	14573 1186442	151576	275432	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	++++ 37433	++++ 51470	++++ 98069	12453	22410	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Tetrahydrofuran	DFBZ	Ave	++++ 402205	++++ 527337	++++ 986600	148886	253413	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-40522-1 Analy Batch No.: 121987

SDG No.: 200-40522-1

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 18:40 Calibration End Date: 10/11/2017 02:31 Calibration ID: 38201

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	++++ 756389	9496 1022304	24787 1943464	260346	466159	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	++++ 734199	9304 1002030	24110 1896087	255441	452627	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	++++ 585120	7099 804851	19019 1543269	200354	356648	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	1845 761535	8512 1051476	22451 1977873	259297	459769	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFBZ	Ave	++++ 1971422	25576 2631065	66567 4977004	695895	1217095	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	++++ 1304261	17412 1776874	43968 3396048	446758	795946	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	++++ 409470	5110 548541	13767 1044989	146328	255071	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	++++ 671227	9612 890550	24260 1664127	247364	429897	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	++++ 251808	++++ 338963	++++ 649009	95299	156691	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	1460 566169	6660 770292	18614 1489295	191199	343928	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	++++ 479543	5953 641679	15096 1222215	167575	296157	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	++++ 473154	++++ 640731	15582 1224821	163159	291648	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	++++ 266866	++++ 364780	++++ 686936	97808	170019	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	++++ 623531	8147 865805	19930 1664927	202194	374652	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFBZ	Ave	++++ 854188	10291 1156269	26671 2213280	296073	525624	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	++++ 715360	8400 968644	22328 1856032	244460	437473	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFBZ	Ave	++++ 857750	++++ 1127049	31335 2123841	312352	542333	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	++++ 940442	12426 1224090	33894 2210079	349092	601731	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	++++ 998899	13105 1369634	33822 2587151	336076	609871	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	++++ 680879	7752 922878	20011 1757437	232199	416434	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 477414	5917 648558	15698 1242129	164560	295033	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-40522-1 Analy Batch No.: 121987

SDG No.: 200-40522-1

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 18:40 Calibration End Date: 10/11/2017 02:31 Calibration ID: 38201

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBNZ d5	Ave	2442 910782	10613 1269787	27915 2468328	296200	550845	0.0401 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	++++ 822770	++++ 1080582	38491 2043897	299741	517459	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBNZ d5	Ave	++++ 1007856	11158 1390672	28851 2677694	337154	611281	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBNZ d5	Ave	++++ 913205	10590 1249911	27859 2408052	303930	556333	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBNZ d5	Ave	++++ 1395276	16815 1925907	44092 3696381	461184	847518	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBNZ d5	Ave	++++ 2149181	28393 2925954	70444 5474731	722524	1309126	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBNZ d5	Ave	++++ 971991	11943 1285854	32885 2364523	342195	609504	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBNZ d5	Ave	++++ 1798618	21685 2453726	55282 4636068	590738	1089589	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBNZ d5	Ave	++++ 885424	11169 1211373	28320 2305260	292981	539996	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBNZ d5	Ave	++++ 1404350	15190 1921683	41842 3678087	457996	849301	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBNZ d5	Ave	++++ 1034176	10550 1459240	26171 2803305	346123	629776	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBNZ d5	Ave	++++ 2488763	29815 3389879	78004 6363924	832977	1517343	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	++++ 1266954	14935 1713323	40017 3132571	430490	783655	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBNZ d5	Ave	++++ 2941836	34322 3934509	90888 7037933	985136	1806178	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBNZ d5	Ave	++++ 907370	++++ 1217369	29808 2192078	309526	560148	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBNZ d5	Ave	++++ 1201153	++++ 1549840	39930 2931800	434517	771304	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBNZ d5	Ave	++++ 2465730	28409 3286713	76077 6105136	815602	1508576	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBNZ d5	Ave	++++ 1929250	22971 2608740	60678 4913271	643210	1183721	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBNZ d5	Ave	++++ 2012067	23823 2598803	62335 5127837	675565	1237354	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBNZ d5	Ave	++++ 1069255	11026 1413459	31026 2789263	347634	645343	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBNZ d5	Ave	++++ 1960929	23820 2591966	62274 5012540	673729	1221071	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-40522-1 Analy Batch No.: 121987

SDG No.: 200-40522-1

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2017 18:40 Calibration End Date: 10/11/2017 02:31 Calibration ID: 38201

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	++++ 1952073	23313 2565948	61907 5064655	669038	1233656	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	++++ 2899486	36672 3857535	96145 7506759	1023386	1853946	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	++++ 2373788	29385 3298568	78939 6613571	854688	1559056	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	++++ 1428043	15206 1888439	42925 3839822	466867	895265	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	++++ 1393843	14935 1849474	42211 3857425	459387	887463	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	++++ 1522066	15693 2022613	34216 4107217	529087	932566	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	++++ 1232237	++++ 1671986	++++ 3136094	424043	715729	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	++++ 2009313	23052 2823665	66111 5542060	732834	1318485	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	++++ 1287664	14941 1739067	40293 3612287	441548	834259	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	++++ 623440	++++ 888431	++++ 1651148	163773	300365	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 667058	++++ 1000491	7614 2276937	137716	392290	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	++++ 862742	9284 1227611	26728 2345313	271453	525733	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBNZ d5	Ave	++++ 1355238	++++ 2015492	13848 4660361	252888	775810	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	++++ 421194	++++ 677588	3592 1589010	76730	274566	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:

Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Lab Sample ID: ICV 200-121987/17 Calibration Date: 10/11/2017 06:00
 Instrument ID: CHB.i Calib Start Date: 10/10/2017 18:40
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 10/11/2017 02:31
 Lab File ID: 27339-17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.3938	0.3949		10.0	10.0	0.3	30.0
Dichlorodifluoromethane	Ave	1.689	1.725		10.2	10.0	2.1	30.0
Freon 22	Ave	0.8625	0.8843		10.3	10.0	2.5	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.794	2.091		11.7	10.0	16.6	30.0
Chloromethane	Ave	0.5652	0.5562		9.84	10.0	-1.6	30.0
n-Butane	Ave	0.9620	0.9593		9.97	10.0	-0.3	30.0
Vinyl chloride	Ave	0.7238	0.7516		10.4	10.0	3.8	30.0
1,3-Butadiene	Ave	0.5476	0.5476		10.0	10.0	0.0	30.0
Bromomethane	Ave	0.8798	0.9160		10.4	10.0	4.1	30.0
Chloroethane	Ave	0.4834	0.4957		10.3	10.0	2.5	30.0
Isopentane	Ave	0.9226	1.007		10.9	10.0	9.1	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9698	1.007		10.4	10.0	3.8	30.0
Trichlorofluoromethane	Ave	1.988	2.052		10.3	10.0	3.2	30.0
n-Pentane	Ave	1.434	1.594		11.1	10.0	11.1	30.0
Ethanol	Ave	0.4255	0.4006		14.1	15.0	-5.9	30.0
Ethyl ether	Ave	0.6134	0.7076		11.5	10.0	15.4	30.0
Acrolein	Ave	0.2841	0.3660		12.9	10.0	28.8	30.0
Freon TF	Ave	1.834	1.907		10.4	10.0	4.0	30.0
1,1-Dichloroethene	Ave	0.9368	0.9501		10.1	10.0	1.4	30.0
Acetone	Ave	1.092	1.207		11.1	10.0	10.5	30.0
Isopropyl alcohol	Ave	1.317	1.384		10.5	10.0	5.1	30.0
Carbon disulfide	Ave	2.480	2.922		11.8	10.0	17.8	30.0
3-Chloropropene	Ave	1.059	0.7610		7.18	10.0	-28.2	30.0
Acetonitrile	Ave	0.6514	0.7395		11.4	10.0	13.5	30.0
Methylene Chloride	Ave	0.8998	0.9335		10.4	10.0	3.7	30.0
tert-Butyl alcohol	Ave	1.818	1.932		10.6	10.0	6.3	30.0
Methyl tert-butyl ether	Ave	2.559	2.645		10.3	10.0	3.4	30.0
trans-1,2-Dichloroethene	Ave	1.216	1.350		11.1	10.0	11.0	30.0
Acrylonitrile	Ave	0.6505	0.7114		10.9	10.0	9.4	30.0
n-Hexane	Ave	1.463	1.555		10.6	10.0	6.3	30.0
1,1-Dichloroethane	Ave	1.601	1.694		10.6	10.0	5.8	30.0
Vinyl acetate	Ave	2.037	2.296		11.3	10.0	12.7	30.0
Methyl Ethyl Ketone	Ave	0.5221	0.5391		10.3	10.0	3.3	30.0
cis-1,2-Dichloroethene	Ave	1.082	1.108		10.2	10.0	2.3	30.0
Ethyl acetate	Ave	0.0889	0.0993		11.2	10.0	11.8	30.0
Tetrahydrofuran	Ave	0.1983	0.2176		11.0	10.0	9.7	30.0
Chloroform	Ave	1.824	1.903		10.4	10.0	4.4	30.0
1,1,1-Trichloroethane	Ave	0.3621	0.3804		10.5	10.0	5.1	30.0
Cyclohexane	Ave	0.2864	0.3038		10.6	10.0	6.1	30.0
Carbon tetrachloride	Ave	0.3602	0.3919		10.9	10.0	8.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Lab Sample ID: ICV 200-121987/17 Calibration Date: 10/11/2017 06:00
 Instrument ID: CHB.i Calib Start Date: 10/10/2017 18:40
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 10/11/2017 02:31
 Lab File ID: 27339-17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.9764	1.015		10.4	10.0	3.9	30.0
Benzene	Ave	0.6485	0.6738		10.4	10.0	3.9	30.0
1,2-Dichloroethane	Ave	0.2026	0.2167		10.7	10.0	6.9	30.0
n-Heptane	Ave	0.3440	0.3510		10.2	10.0	2.0	30.0
n-Butanol	Ave	0.1262	0.1587		12.6	10.0	25.7	30.0
Trichloroethene	Ave	0.2750	0.2937		10.7	10.0	6.8	30.0
1,2-Dichloropropane	Ave	0.2336	0.2452		10.5	10.0	5.0	30.0
Methyl methacrylate	Ave	0.2345	0.2490		10.6	10.0	6.1	30.0
1,4-Dioxane	Ave	0.1337	0.1553		11.6	10.0	16.2	30.0
Dibromomethane	Ave	0.3052	0.3251		10.7	10.0	6.5	30.0
Bromodichloromethane	Ave	0.4147	0.4255		10.3	10.0	2.6	30.0
cis-1,3-Dichloropropene	Ave	0.3450	0.3705		10.7	10.0	7.4	30.0
methyl isobutyl ketone	Ave	0.4348	0.4438		10.2	10.0	2.1	30.0
n-Octane	Ave	0.4725	0.4931		10.4	10.0	4.3	30.0
Toluene	Ave	0.5741	0.5823		10.1	10.0	1.4	30.0
trans-1,3-Dichloropropene	Ave	0.3240	0.3445		10.6	10.0	6.3	30.0
1,1,2-Trichloroethane	Ave	0.2723	0.2826		10.4	10.0	3.8	30.0
Tetrachloroethene	Ave	0.5111	0.5215		10.2	10.0	2.0	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.5110	0.4838		9.47	10.0	-5.3	30.0
Dibromochloromethane	Ave	0.5536	0.5088		9.19	10.0	-8.1	30.0
1,2-Dibromoethane	Ave	0.5080	0.5303		10.4	10.0	4.4	30.0
Chlorobenzene	Ave	0.7845	0.8097		10.3	10.0	3.2	30.0
Ethylbenzene	Ave	1.226	1.240		10.1	10.0	1.1	30.0
n-Nonane	Ave	0.5526	0.5708		10.3	10.0	3.3	30.0
m,p-Xylene	Ave	0.5002	0.5097		20.4	20.0	1.9	30.0
Xylene, o-	Ave	0.5004	0.4982		9.95	10.0	-0.4	30.0
Styrene	Ave	0.7677	0.7977		10.4	10.0	3.9	30.0
Bromoform	Ave	0.5570	0.4169		7.48	10.0	-25.2	30.0
Cumene	Ave	1.391	1.400		10.1	10.0	0.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7067	0.7502		10.6	10.0	6.2	30.0
n-Propylbenzene	Ave	1.618	1.672		10.3	10.0	3.3	30.0
1,2,3-Trichloropropane	Ave	0.5150	0.5251		10.2	10.0	2.0	30.0
n-Decane	Ave	0.6922	0.7204		10.4	10.0	4.1	30.0
4-Ethyltoluene	Ave	1.356	1.426		10.5	10.0	5.2	30.0
2-Chlorotoluene	Ave	1.076	1.093		10.2	10.0	1.6	30.0
1,3,5-Trimethylbenzene	Ave	1.114	1.154		10.4	10.0	3.6	30.0
Alpha Methyl Styrene	Ave	0.5753	0.6211		10.8	10.0	8.0	30.0
tert-Butylbenzene	Ave	1.103	1.128		10.2	10.0	2.2	30.0
1,2,4-Trimethylbenzene	Ave	1.099	1.136		10.3	10.0	3.3	30.0
sec-Butylbenzene	Ave	1.669	1.707		10.2	10.0	2.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Lab Sample ID: ICV 200-121987/17 Calibration Date: 10/11/2017 06:00
 Instrument ID: CHB.i Calib Start Date: 10/10/2017 18:40
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 10/11/2017 02:31
 Lab File ID: 27339-17.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.394	1.444		10.4	10.0	3.5	30.0
1,3-Dichlorobenzene	Ave	0.7836	0.8314		10.6	10.0	6.1	30.0
1,4-Dichlorobenzene	Ave	0.7725	0.8210		10.6	10.0	6.3	30.0
Benzyl chloride	Ave	0.8074	0.8262		10.2	10.0	2.3	30.0
n-Undecane	Ave	0.6868	0.7175		10.4	10.0	4.5	30.0
n-Butylbenzene	Ave	1.170	1.204		10.3	10.0	2.9	30.0
1,2-Dichlorobenzene	Ave	0.7338	0.7791		10.6	10.0	6.2	30.0
n-Dodecane	Ave	0.3234	0.3781		11.7	10.0	16.9	30.0
1,2,4-Trichlorobenzene	Ave	0.3315	0.3570		10.8	10.0	7.7	30.0
Hexachlorobutadiene	Ave	0.4771	0.5013		10.5	10.0	5.1	30.0
Naphthalene	Ave	0.6567	0.6774		10.3	10.0	3.1	30.0
1,2,3-Trichlorobenzene	Ave	0.2144	0.2242		10.5	10.0	4.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Lab Sample ID: CCVIS 200-122480/2 Calibration Date: 10/24/2017 12:11
 Instrument ID: CHB.i Calib Start Date: 10/10/2017 18:40
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 10/11/2017 02:31
 Lab File ID: 27557-02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.3938	0.5148		13.1	10.0	30.7*	30.0
Dichlorodifluoromethane	Ave	1.689	1.980		11.7	10.0	17.3	30.0
Freon 22	Ave	0.8625	1.089		12.6	10.0	26.2	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.794	2.001		11.2	10.0	11.6	30.0
Chloromethane	Ave	0.5652	0.6571		11.6	10.0	16.3	30.0
n-Butane	Ave	0.9620	1.138		11.8	10.0	18.3	30.0
Vinyl chloride	Ave	0.7238	0.8129		11.2	10.0	12.3	30.0
1,3-Butadiene	Ave	0.5476	0.6150		11.2	10.0	12.3	30.0
Bromomethane	Ave	0.8798	0.8363		9.50	10.0	-4.9	30.0
Chloroethane	Ave	0.4834	0.4786		9.90	10.0	-1.0	30.0
Isopentane	Ave	0.9226	0.998		10.8	10.0	8.2	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9698	0.8668		8.94	10.0	-10.6	30.0
Trichlorofluoromethane	Ave	1.988	2.018		10.1	10.0	1.5	30.0
n-Pentane	Ave	1.434	1.533		10.7	10.0	6.9	30.0
Ethanol	Ave	0.4255	0.4973		17.5	15.0	16.8	30.0
Ethyl ether	Ave	0.6134	0.6156		10.0	10.0	0.4	30.0
Acrolein	Ave	0.2841	0.2928		10.3	10.0	3.1	30.0
Freon TF	Ave	1.834	1.712		9.34	10.0	-6.6	30.0
1,1-Dichloroethene	Ave	0.9368	0.8497		9.07	10.0	-9.3	30.0
Acetone	Ave	1.092	1.273		11.7	10.0	16.6	30.0
Isopropyl alcohol	Ave	1.317	1.547		11.7	10.0	17.4	30.0
Carbon disulfide	Ave	2.480	2.380		9.60	10.0	-4.0	30.0
3-Chloropropene	Ave	1.059	1.223		11.5	10.0	15.5	30.0
Acetonitrile	Ave	0.6514	0.7420		11.4	10.0	13.9	30.0
Methylene Chloride	Ave	0.8998	0.9914		11.0	10.0	10.2	30.0
tert-Butyl alcohol	Ave	1.818	1.918		10.5	10.0	5.5	30.0
Methyl tert-butyl ether	Ave	2.559	2.518		9.83	10.0	-1.6	30.0
trans-1,2-Dichloroethene	Ave	1.216	1.282		10.5	10.0	5.4	30.0
Acrylonitrile	Ave	0.6505	0.6656		10.2	10.0	2.3	30.0
n-Hexane	Ave	1.463	1.428		9.76	10.0	-2.4	30.0
1,1-Dichloroethane	Ave	1.601	1.676		10.5	10.0	4.7	30.0
Vinyl acetate	Ave	2.037	2.306		11.3	10.0	13.2	30.0
Methyl Ethyl Ketone	Ave	0.5221	0.4850		9.29	10.0	-7.1	30.0
cis-1,2-Dichloroethene	Ave	1.082	1.010		9.33	10.0	-6.7	30.0
Ethyl acetate	Ave	0.0889	0.0792		8.91	10.0	-10.9	30.0
Tetrahydrofuran	Ave	0.1983	0.2260		11.4	10.0	14.0	30.0
Chloroform	Ave	1.824	1.861		10.2	10.0	2.0	30.0
1,1,1-Trichloroethane	Ave	0.3621	0.3691		10.2	10.0	1.9	30.0
Cyclohexane	Ave	0.2864	0.2705		9.44	10.0	-5.5	30.0
Carbon tetrachloride	Ave	0.3602	0.3771		10.5	10.0	4.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Lab Sample ID: CCVIS 200-122480/2 Calibration Date: 10/24/2017 12:11
 Instrument ID: CHB.i Calib Start Date: 10/10/2017 18:40
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 10/11/2017 02:31
 Lab File ID: 27557-02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.9764	1.008		10.3	10.0	3.3	30.0
Benzene	Ave	0.6485	0.6146		9.47	10.0	-5.2	30.0
1,2-Dichloroethane	Ave	0.2026	0.2282		11.3	10.0	12.6	30.0
n-Heptane	Ave	0.3440	0.3734		10.9	10.0	8.6	30.0
n-Butanol	Ave	0.1262	0.1257		9.96	10.0	-0.4	30.0
Trichloroethene	Ave	0.2750	0.2636		9.58	10.0	-4.1	30.0
1,2-Dichloropropane	Ave	0.2336	0.2429		10.4	10.0	4.0	30.0
Methyl methacrylate	Ave	0.2345	0.2255		9.61	10.0	-3.9	30.0
1,4-Dioxane	Ave	0.1337	0.1210		9.05	10.0	-9.5	30.0
Dibromomethane	Ave	0.3052	0.2707		8.87	10.0	-11.3	30.0
Bromodichloromethane	Ave	0.4147	0.4304		10.4	10.0	3.8	30.0
cis-1,3-Dichloropropene	Ave	0.3450	0.3512		10.2	10.0	1.8	30.0
methyl isobutyl ketone	Ave	0.4348	0.4674		10.7	10.0	7.5	30.0
n-Octane	Ave	0.4725	0.5352		11.3	10.0	13.3	30.0
Toluene	Ave	0.5741	0.5282		9.20	10.0	-8.0	30.0
trans-1,3-Dichloropropene	Ave	0.3240	0.3406		10.5	10.0	5.1	30.0
1,1,2-Trichloroethane	Ave	0.2723	0.2629		9.65	10.0	-3.5	30.0
Tetrachloroethene	Ave	0.5111	0.4468		8.74	10.0	-12.6	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.5110	0.4889		9.57	10.0	-4.3	30.0
Dibromochloromethane	Ave	0.5536	0.5157		9.31	10.0	-6.9	30.0
1,2-Dibromoethane	Ave	0.5080	0.4813		9.47	10.0	-5.3	30.0
Chlorobenzene	Ave	0.7845	0.7178		9.15	10.0	-8.5	30.0
Ethylbenzene	Ave	1.226	1.162		9.48	10.0	-5.2	30.0
n-Nonane	Ave	0.5526	0.5747		10.4	10.0	4.0	30.0
m,p-Xylene	Ave	0.5002	0.4640		18.5	20.0	-7.2	30.0
Xylene, o-	Ave	0.5004	0.4601		9.19	10.0	-8.1	30.0
Styrene	Ave	0.7677	0.7175		9.34	10.0	-6.5	30.0
Bromoform	Ave	0.5570	0.4742		8.51	10.0	-14.9	30.0
Cumene	Ave	1.391	1.349		9.70	10.0	-3.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7067	0.7161		10.1	10.0	1.3	30.0
n-Propylbenzene	Ave	1.618	1.636		10.1	10.0	1.1	30.0
1,2,3-Trichloropropane	Ave	0.5150	0.5355		10.4	10.0	4.0	30.0
n-Decane	Ave	0.6922	0.7471		10.8	10.0	7.9	30.0
4-Ethyltoluene	Ave	1.356	1.326		9.78	10.0	-2.2	30.0
2-Chlorotoluene	Ave	1.076	1.071		9.95	10.0	-0.5	30.0
1,3,5-Trimethylbenzene	Ave	1.114	1.087		9.76	10.0	-2.4	30.0
Alpha Methyl Styrene	Ave	0.5753	0.5300		9.21	10.0	-7.9	30.0
tert-Butylbenzene	Ave	1.103	1.076		9.75	10.0	-2.5	30.0
1,2,4-Trimethylbenzene	Ave	1.099	1.100		10.0	10.0	0.0	30.0
sec-Butylbenzene	Ave	1.669	1.664		9.97	10.0	-0.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Lab Sample ID: CCVIS 200-122480/2 Calibration Date: 10/24/2017 12:11
 Instrument ID: CHB.i Calib Start Date: 10/10/2017 18:40
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 10/11/2017 02:31
 Lab File ID: 27557-02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.394	1.387		9.95	10.0	-0.5	30.0
1,3-Dichlorobenzene	Ave	0.7836	0.7617		9.72	10.0	-2.8	30.0
1,4-Dichlorobenzene	Ave	0.7725	0.7505		9.71	10.0	-2.8	30.0
Benzyl chloride	Ave	0.8074	0.8855		11.0	10.0	9.7	30.0
n-Undecane	Ave	0.6868	0.7643		11.1	10.0	11.3	30.0
n-Butylbenzene	Ave	1.170	1.239		10.6	10.0	5.9	30.0
1,2-Dichlorobenzene	Ave	0.7338	0.7135		9.72	10.0	-2.8	30.0
n-Dodecane	Ave	0.3234	0.4550		14.1	10.0	40.7*	30.0
1,2,4-Trichlorobenzene	Ave	0.3315	0.3612		10.9	10.0	9.0	30.0
Hexachlorobutadiene	Ave	0.4771	0.4655		9.75	10.0	-2.4	30.0
Naphthalene	Ave	0.6567	0.7672		11.7	10.0	16.8	30.0
1,2,3-Trichlorobenzene	Ave	0.2144	0.2616		12.2	10.0	22.0	30.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Client Sample ID: _____ Lab Sample ID: MB 200-122480/4
 Matrix: Air Lab File ID: 27557-04.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 10/24/2017 13:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.047
75-45-6	Freon 22	86.47	0.50	U	0.50	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.041
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.16
106-97-8	n-Butane	58.12	0.50	U	0.50	0.046
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.018
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.037
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.036
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.13
593-60-2	Bromoethene (Vinyl Bromide)	106.96	0.20	U	0.20	0.022
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	0.031
76-13-1	Freon TF	187.38	0.20	U	0.20	0.027
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.035
67-64-1	Acetone	58.08	5.0	U	5.0	1.3
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.13
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.028
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.063
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.068
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	1.7
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.041
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.050
110-54-3	n-Hexane	86.17	0.20	U	0.20	0.046
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.017
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	0.11
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.029
67-66-3	Chloroform	119.38	0.20	U	0.20	0.025
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	1.2
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.026
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.045
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.011
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	U	0.20	0.043
71-43-2	Benzene	78.11	0.20	U	0.20	0.028
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.034
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.068
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.0091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-122480/4</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-04.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: _____
Sample wt/vol: <u>200 (mL)</u>	Date Analyzed: <u>10/24/2017 13:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.11
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.035
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.76
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.059
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.036
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.065
108-88-3	Toluene	92.14	0.20	U	0.20	0.035
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.038
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.017
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.0098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.086
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.017
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.023
108-90-7	Chlorobenzene	112.56	0.20	U	0.20	0.025
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.034
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.077
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.040
100-42-5	Styrene	104.15	0.20	U	0.20	0.035
75-25-2	Bromoform	252.75	0.20	U	0.20	0.035
98-82-8	Cumene	120.19	0.20	U	0.20	0.039
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.026
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.040
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.040
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.040
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.035
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.037
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.057
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.037
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.052
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.050
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.063
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.067
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.068
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.045

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: _____ Lab Sample ID: MB 200-122480/4
Matrix: Air Lab File ID: 27557-04.D
Analysis Method: TO-15 Date Collected: _____
Sample wt/vol: 200 (mL) Date Analyzed: 10/24/2017 13:57
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.19
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.064
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.10

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40522-1</u>
SDG No.: <u>200-40522-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-122480/4</u>
Matrix: <u>Air</u>	Lab File ID: <u>27557-04.D</u>
Analysis Method: <u>TO-15</u>	Date Collected: _____
Sample wt/vol: <u>200 (mL)</u>	Date Analyzed: <u>10/24/2017 13:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-624</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>122480</u>	Units: <u>ug/m3</u>

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	0.23
75-45-6	Freon 22	86.47	1.8	U	1.8	0.71
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.29
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.33
106-97-8	n-Butane	58.12	1.2	U	1.2	0.11
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.046
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.082
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.14
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.34
593-60-2	Bromoethene (Vinyl Bromide)	106.96	0.87	U	0.87	0.096
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	0.17
76-13-1	Freon TF	187.38	1.5	U	1.5	0.21
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.14
67-64-1	Acetone	58.08	12	U	12	3.1
67-63-0	Isopropyl alcohol	60.10	12	U	12	0.32
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.087
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.20
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.24
75-65-0	tert-Butyl alcohol	74.12	15	U	15	5.2
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.15
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.20
110-54-3	n-Hexane	86.17	0.70	U	0.70	0.16
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.069
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	0.32
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.11
67-66-3	Chloroform	119.38	0.98	U	0.98	0.12
109-99-9	Tetrahydrofuran	72.11	15	U	15	3.5
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.14
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.15
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	0.069
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	U	0.93	0.20
71-43-2	Benzene	78.11	0.64	U	0.64	0.089
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.14
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.28
79-01-6	Trichloroethene	131.39	1.1	U	1.1	0.049

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Client Sample ID: _____ Lab Sample ID: MB 200-122480/4
 Matrix: Air Lab File ID: 27557-04.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 10/24/2017 13:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.45
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.16
123-91-1	1,4-Dioxane	88.11	18	U	18	2.7
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.40
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.16
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.27
108-88-3	Toluene	92.14	0.75	U	0.75	0.13
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.17
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.093
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.066
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.35
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.14
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.18
108-90-7	Chlorobenzene	112.56	0.92	U	0.92	0.12
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.15
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	0.33
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.17
100-42-5	Styrene	104.15	0.85	U	0.85	0.15
75-25-2	Bromoform	252.75	2.1	U	2.1	0.36
98-82-8	Cumene	120.19	0.98	U	0.98	0.19
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.18
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.20
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.20
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.20
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.18
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.20
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.28
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.20
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.29
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.30
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.38
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.35
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.37
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.27

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: _____ Lab Sample ID: MB 200-122480/4
Matrix: Air Lab File ID: 27557-04.D
Analysis Method: TO-15 Date Collected: _____
Sample wt/vol: 200 (mL) Date Analyzed: 10/24/2017 13:57
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	1.4
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.68
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.52

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Client Sample ID: _____ Lab Sample ID: LCS 200-122480/3
 Matrix: Air Lab File ID: 27557-03.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 10/24/2017 13:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	12.1		0.50	0.047
75-45-6	Freon 22	86.47	12.6		0.50	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	13.4		0.20	0.041
74-87-3	Chloromethane	50.49	11.6		0.50	0.16
106-97-8	n-Butane	58.12	11.8		0.50	0.046
75-01-4	Vinyl chloride	62.50	11.8		0.20	0.018
106-99-0	1,3-Butadiene	54.09	11.3		0.20	0.037
74-83-9	Bromomethane	94.94	10.7		0.20	0.036
75-00-3	Chloroethane	64.52	10.9		0.50	0.13
593-60-2	Bromoethene (Vinyl Bromide)	106.96	10.1		0.20	0.022
75-69-4	Trichlorofluoromethane	137.37	11.1		0.20	0.031
76-13-1	Freon TF	187.38	10.5		0.20	0.027
75-35-4	1,1-Dichloroethene	96.94	10.0		0.20	0.035
67-64-1	Acetone	58.08	12.9		5.0	1.3
67-63-0	Isopropyl alcohol	60.10	11.7		5.0	0.13
75-15-0	Carbon disulfide	76.14	12.1		0.50	0.028
107-05-1	3-Chloropropene	76.53	7.93		0.50	0.063
75-09-2	Methylene Chloride	84.93	11.6		0.50	0.068
75-65-0	tert-Butyl alcohol	74.12	11.5		5.0	1.7
1634-04-4	Methyl tert-butyl ether	88.15	10.8		0.20	0.041
156-60-5	trans-1,2-Dichloroethene	96.94	11.9		0.20	0.050
110-54-3	n-Hexane	86.17	11.4		0.20	0.046
75-34-3	1,1-Dichloroethane	98.96	11.4		0.20	0.017
78-93-3	Methyl Ethyl Ketone	72.11	10.6		0.50	0.11
156-59-2	cis-1,2-Dichloroethene	96.94	10.2		0.20	0.029
67-66-3	Chloroform	119.38	11.2		0.20	0.025
109-99-9	Tetrahydrofuran	72.11	12.3		5.0	1.2
71-55-6	1,1,1-Trichloroethane	133.41	11.2		0.20	0.026
110-82-7	Cyclohexane	84.16	10.7		0.20	0.045
56-23-5	Carbon tetrachloride	153.81	11.4		0.20	0.011
540-84-1	2,2,4-Trimethylpentane	114.23	11.2		0.20	0.043
71-43-2	Benzene	78.11	10.6		0.20	0.028
107-06-2	1,2-Dichloroethane	98.96	12.0		0.20	0.034
142-82-5	n-Heptane	100.21	11.4		0.20	0.068
79-01-6	Trichloroethene	131.39	10.8		0.20	0.0091

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
 SDG No.: 200-40522-1
 Client Sample ID: _____ Lab Sample ID: LCS 200-122480/3
 Matrix: Air Lab File ID: 27557-03.D
 Analysis Method: TO-15 Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 10/24/2017 13:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
80-62-6	Methyl methacrylate	100.12	11.0		0.50	0.11
78-87-5	1,2-Dichloropropane	112.99	11.3		0.20	0.035
123-91-1	1,4-Dioxane	88.11	11.5		5.0	0.76
75-27-4	Bromodichloromethane	163.83	10.9		0.20	0.059
10061-01-5	cis-1,3-Dichloropropene	110.97	11.2		0.20	0.036
108-10-1	methyl isobutyl ketone	100.16	11.4		0.50	0.065
108-88-3	Toluene	92.14	10.3		0.20	0.035
10061-02-6	trans-1,3-Dichloropropene	110.97	11.3		0.20	0.038
79-00-5	1,1,2-Trichloroethane	133.41	11.0		0.20	0.017
127-18-4	Tetrachloroethene	165.83	9.97		0.20	0.0098
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	10.8		0.50	0.086
124-48-1	Dibromochloromethane	208.29	9.21		0.20	0.017
106-93-4	1,2-Dibromoethane	187.87	10.7		0.20	0.023
108-90-7	Chlorobenzene	112.56	10.3		0.20	0.025
100-41-4	Ethylbenzene	106.17	10.5		0.20	0.034
179601-23-1	m,p-Xylene	106.17	20.5		0.50	0.077
95-47-6	Xylene, o-	106.17	10.1		0.20	0.040
100-42-5	Styrene	104.15	10.4		0.20	0.035
75-25-2	Bromoform	252.75	6.98		0.20	0.035
98-82-8	Cumene	120.19	10.3		0.20	0.039
79-34-5	1,1,2,2-Tetrachloroethane	167.85	11.2		0.20	0.026
103-65-1	n-Propylbenzene	120.19	10.9		0.20	0.040
622-96-8	4-Ethyltoluene	120.20	10.9		0.20	0.040
108-67-8	1,3,5-Trimethylbenzene	120.20	10.6		0.20	0.040
95-49-8	2-Chlorotoluene	126.59	10.8		0.20	0.035
98-06-6	tert-Butylbenzene	134.22	10.5		0.20	0.037
95-63-6	1,2,4-Trimethylbenzene	120.20	10.8		0.20	0.057
135-98-8	sec-Butylbenzene	134.22	10.7		0.20	0.037
99-87-6	4-Isopropyltoluene	134.22	10.7		0.20	0.052
541-73-1	1,3-Dichlorobenzene	147.00	10.8		0.20	0.050
106-46-7	1,4-Dichlorobenzene	147.00	10.8		0.20	0.063
100-44-7	Benzyl chloride	126.58	10.8		0.20	0.067
104-51-8	n-Butylbenzene	134.22	11.5		0.20	0.068
95-50-1	1,2-Dichlorobenzene	147.00	10.8		0.20	0.045

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40522-1
SDG No.: 200-40522-1
Client Sample ID: _____ Lab Sample ID: LCS 200-122480/3
Matrix: Air Lab File ID: 27557-03.D
Analysis Method: TO-15 Date Collected: _____
Sample wt/vol: 200 (mL) Date Analyzed: 10/24/2017 13:04
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 122480 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	181.45	12.0		0.50	0.19
87-68-3	Hexachlorobutadiene	260.76	10.7		0.20	0.064
91-20-3	Naphthalene	128.17	11.8		0.50	0.10

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-40522-1SDG No.: 200-40522-1Instrument ID: CHB.iStart Date: 10/10/2017 16:05Analysis Batch Number: 121987End Date: 10/11/2017 08:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-121987/1		10/10/2017 16:05	1	27339-01.D	RTX-624 0.32 (mm)
VIBLK 200-121987/2		10/10/2017 16:54	1		RTX-624 0.32 (mm)
VIBLK 200-121987/3		10/10/2017 17:47	1		RTX-624 0.32 (mm)
IC 200-121987/4		10/10/2017 18:40	1	27339-04.D	RTX-624 0.32 (mm)
IC 200-121987/5		10/10/2017 19:32	1	27339-05.D	RTX-624 0.32 (mm)
ZZZZZ		10/10/2017 20:25	1		RTX-624 0.32 (mm)
IC 200-121987/7		10/10/2017 21:17	1	27339-07.D	RTX-624 0.32 (mm)
ZZZZZ		10/10/2017 22:10	1		RTX-624 0.32 (mm)
IC 200-121987/9		10/10/2017 23:02	1	27339-09.D	RTX-624 0.32 (mm)
ICIS 200-121987/10		10/10/2017 23:54	1	27339-10.D	RTX-624 0.32 (mm)
IC 200-121987/11		10/11/2017 00:47	1	27339-11.D	RTX-624 0.32 (mm)
IC 200-121987/12		10/11/2017 01:39	1	27339-12.D	RTX-624 0.32 (mm)
IC 200-121987/13		10/11/2017 02:31	1	27339-13.D	RTX-624 0.32 (mm)
VIBLK 200-121987/14		10/11/2017 03:23	1		RTX-624 0.32 (mm)
VIBLK 200-121987/15		10/11/2017 04:16	1		RTX-624 0.32 (mm)
VIBLK 200-121987/16		10/11/2017 05:08	1		RTX-624 0.32 (mm)
ICV 200-121987/17		10/11/2017 06:00	1	27339-17.D	RTX-624 0.32 (mm)
ZZZZZ		10/11/2017 06:52	1		RTX-624 0.32 (mm)
ZZZZZ		10/11/2017 07:44	1		RTX-624 0.32 (mm)
VIBLK 200-121987/20		10/11/2017 08:36	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-40522-1SDG No.: 200-40522-1Instrument ID: CHB.iStart Date: 10/24/2017 11:17Analysis Batch Number: 122480End Date: 10/25/2017 10:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-122480/1		10/24/2017 11:17	1	27557-01.D	RTX-624 0.32 (mm)
CCVIS 200-122480/2		10/24/2017 12:11	1	27557-02.D	RTX-624 0.32 (mm)
LCS 200-122480/3		10/24/2017 13:04	1	27557-03.D	RTX-624 0.32 (mm)
MB 200-122480/4		10/24/2017 13:57	1	27557-04.D	RTX-624 0.32 (mm)
ZZZZZ		10/24/2017 14:50	4		RTX-624 0.32 (mm)
ZZZZZ		10/24/2017 15:43	1		RTX-624 0.32 (mm)
200-40522-1		10/24/2017 16:37	10	27557-07.D	RTX-624 0.32 (mm)
200-40522-2		10/24/2017 17:30	10	27557-08.D	RTX-624 0.32 (mm)
200-40522-3		10/24/2017 18:23	10	27557-09.D	RTX-624 0.32 (mm)
200-40522-4		10/24/2017 19:17	10	27557-10.D	RTX-624 0.32 (mm)
200-40522-5		10/24/2017 20:11	10	27557-11.D	RTX-624 0.32 (mm)
200-40522-6		10/24/2017 21:04	10	27557-12.D	RTX-624 0.32 (mm)
200-40522-7		10/24/2017 21:58	10	27557-13.D	RTX-624 0.32 (mm)
200-40522-8		10/24/2017 22:51	10	27557-14.D	RTX-624 0.32 (mm)
ZZZZZ		10/24/2017 23:44	13.92		RTX-624 0.32 (mm)
ZZZZZ		10/25/2017 00:38	7.72		RTX-624 0.32 (mm)
ZZZZZ		10/25/2017 01:31	7.92		RTX-624 0.32 (mm)
VIBLK 200-122480/18		10/25/2017 08:11	1		RTX-624 0.32 (mm)
ZZZZZ		10/25/2017 09:04	1		RTX-624 0.32 (mm)
ZZZZZ		10/25/2017 09:57	1		RTX-624 0.32 (mm)
ZZZZZ		10/25/2017 10:50	1		RTX-624 0.32 (mm)

Shipping and Receiving Documents

TestAmerica Burlington
330 Community Drive
Suite 11
South Burlington, VT 05403
phone 802.660.1990 fax 802.660.1991

200-40522 Chain of Custody

TestAmerica Laboratories, Inc. assumes no liability -

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

[illegible]

Form No. CA-C-WI-003, Rev. 1.1, dated 05/14/2013

Page 1 of 1

ORIGIN ID: ENLA (402) 416-7255
TRAVIS KAMLER
ARGONNE NATIONAL LAB
9700 S CASS AVE

LEMONT, IL 60439
UNITED STATES US

SHIP DATE: 18OCT17
ACTWGT: 25.00 LB
CAD: 104734835/NET3920
DIMS: 20x11x17 IN

BILL SENDER

TO KATHRYN KELLY
TEST AMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990

REF: 8A727-25-167

INV:
PO: AGRA SOIL GAS

DEPT:

FedEx
Express

472117813100

THU - 19 OCT 10:30A
PRIORITY OVERNIGHT

TRK# 7705 2630 8097
0201

NC BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Argonne National Laboratory

Job Number: 200-40522-1

SDG Number: 200-40522-1

Login Number: 40522

List Source: TestAmerica Burlington

List Number: 1

Creator: Cota, Fred P

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	TK
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Supplement 5:

**TestAmerica Data for Argonne's Quarterly Groundwater Sampling
on October 17, 2017**

ANALYTICAL REPORT

Job Number: 200-40524-1

SDG Number: 200-40524-1

Job Description: Agra, KS (200-40524)

Contract Number: 6E-30541

For:

Argonne National Laboratory

9700 South Cass Avenue

Building 203

Office B-141

Argonne, IL 60439

Attention: Ms. Esther Bowen

Approved for release.
Kathryn A Kelly
Project Manager I
10/27/2017 1:42 PM

Kathryn A Kelly, Project Manager I
30 Community Drive, South Burlington, VT, 05403
kathryn.kelly@testamericainc.com
10/27/2017

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

Table of Contents

Cover Title Page	1
Data Summaries	4
Definitions	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Default Detection Limits	16
Surrogate Summary	17
QC Sample Results	18
QC Association	20
Chronicle	21
Certification Summary	22
Method Summary	23
Sample Summary	24
Reagent Traceability	25
Organic Sample Data	32
GC/MS VOA	32
Method SOM Vol Tr	32
Method SOM Vol Tr QC Summary	33
Method SOM Vol Tr Sample Data	40
Standards Data	64
Method SOM Vol Tr ICAL Data	64
Method SOM Vol Tr CCAL Data	68
Raw QC Data	74
Method SOM Vol Tr Blank Data	74
Method SOM Vol Tr Run Logs	78

Table of Contents

Shipping and Receiving Documents 81

Client Chain of Custody 82

Sample Receipt Checklist 84

Definitions/Glossary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
*	Surrogate is outside acceptance limits.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
D	Sample was analyzed at a higher dilution factor.
J	Indicates an estimated value.
B	The analyte was found in an associated blank, as well as in the sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Argonne National Laboratory

Project: Agra, KS (200-40524)

Report Number: 200-40524-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/19/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.2 C.

VOLATILE ORGANIC COMPOUNDS - TRACE

Samples AGMWP-W-39868, AGGW3-W-39871, AGQCTB-W-39877 and VHBLK01 were analyzed for Volatile Organic Compounds - Trace in accordance with SOM02.3_Trace Volatiles. The samples were analyzed on 10/20/2017.

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Acetone were detected in method blank MB 200-122347/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

2-Butanone-d5 failed the surrogate recovery criteria high for AGMWP-W-39868. Refer to the QC report for details.

Samples AGMWP-W-39868[25X] and AGGW3-W-39871[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: AGMWP-W-39868

Lab Sample ID: 200-40524-1

Analyte	Result	Qualifier	RL	MDLE	Unit	Dil Fac	D	Method	Prep Type
Chloroform	6.7		0.50		ug/L	1		SOM02.2/VOA_ Tr	Total/NA
Chloroform	6.7	J D	13		ug/L	25		SOM02.2/VOA_ Tr	Total/NA
Carbon tetrachloride	260	E	0.50		ug/L	1		SOM02.2/VOA_ Tr	Total/NA
Carbon tetrachloride	310	D	13		ug/L	25		SOM02.2/VOA_ Tr	Total/NA

Client Sample ID: AGGW3-W-39871

Lab Sample ID: 200-40524-2

Analyte	Result	Qualifier	RL	MDLE	Unit	Dil Fac	D	Method	Prep Type
Chloroform	12		0.50		ug/L	1		SOM02.2/VOA_ Tr	Total/NA
Chloroform	11	J D	50		ug/L	100		SOM02.2/VOA_ Tr	Total/NA
Carbon tetrachloride	420	E	0.50		ug/L	1		SOM02.2/VOA_ Tr	Total/NA
Carbon tetrachloride	840	D	50		ug/L	100		SOM02.2/VOA_ Tr	Total/NA

Client Sample ID: AGQCTB-W-39877

Lab Sample ID: 200-40524-3

Analyte	Result	Qualifier	RL	MDLE	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J B	5.0		ug/L	1		SOM02.2/VOA_ Tr	Total/NA
Chloroform	0.15	J	0.50		ug/L	1		SOM02.2/VOA_ Tr	Total/NA
Toluene	0.16	J	0.50		ug/L	1		SOM02.2/VOA_ Tr	Total/NA

Client Sample ID: VHBLK01

Lab Sample ID: 200-40524-4

Analyte	Result	Qualifier	RL	MDLE	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J B	5.0		ug/L	1		SOM02.2/VOA_ Tr	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: AGMWP-W-39868

Lab Sample ID: 200-40524-1

Date Collected: 10/17/17 13:36

Matrix: Water

Date Received: 10/19/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
Dichlorodifluoromethane	13	U	13		ug/L			10/20/17 12:38	25
Chloromethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
Chloromethane	13	U	13		ug/L			10/20/17 12:38	25
Vinyl chloride	0.50	U	0.50		ug/L			10/20/17 11:22	1
Vinyl chloride	13	U	13		ug/L			10/20/17 12:38	25
Bromomethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
Bromomethane	13	U	13		ug/L			10/20/17 12:38	25
Chloroethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
Chloroethane	13	U	13		ug/L			10/20/17 12:38	25
Trichlorofluoromethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
Trichlorofluoromethane	13	U	13		ug/L			10/20/17 12:38	25
1,1-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,1-Dichloroethene	13	U	13		ug/L			10/20/17 12:38	25
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	13	U	13		ug/L			10/20/17 12:38	25
Acetone	5.0	U	5.0		ug/L			10/20/17 11:22	1
Acetone	130	U	130		ug/L			10/20/17 12:38	25
Carbon disulfide	0.50	U	0.50		ug/L			10/20/17 11:22	1
Carbon disulfide	13	U	13		ug/L			10/20/17 12:38	25
Methyl acetate	0.50	U	0.50		ug/L			10/20/17 11:22	1
Methyl acetate	13	U	13		ug/L			10/20/17 12:38	25
Methylene Chloride	0.50	U	0.50		ug/L			10/20/17 11:22	1
Methylene Chloride	13	U	13		ug/L			10/20/17 12:38	25
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 11:22	1
trans-1,2-Dichloroethene	13	U	13		ug/L			10/20/17 12:38	25
Methyl tert-butyl ether	0.50	U	0.50		ug/L			10/20/17 11:22	1
Methyl tert-butyl ether	13	U	13		ug/L			10/20/17 12:38	25
1,1-Dichloroethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,1-Dichloroethane	13	U	13		ug/L			10/20/17 12:38	25
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 11:22	1
cis-1,2-Dichloroethene	13	U	13		ug/L			10/20/17 12:38	25
2-Butanone	5.0	U	5.0		ug/L			10/20/17 11:22	1
2-Butanone	130	U	130		ug/L			10/20/17 12:38	25
Bromochloromethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
Bromochloromethane	13	U	13		ug/L			10/20/17 12:38	25
Chloroform	6.7		0.50		ug/L			10/20/17 11:22	1
Chloroform	6.7	J D	13		ug/L			10/20/17 12:38	25
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,1,1-Trichloroethane	13	U	13		ug/L			10/20/17 12:38	25
Cyclohexane	0.50	U	0.50		ug/L			10/20/17 11:22	1
Cyclohexane	13	U	13		ug/L			10/20/17 12:38	25
Carbon tetrachloride	260	E	0.50		ug/L			10/20/17 11:22	1
Carbon tetrachloride	310	D	13		ug/L			10/20/17 12:38	25
Benzene	0.50	U	0.50		ug/L			10/20/17 11:22	1
Benzene	13	U	13		ug/L			10/20/17 12:38	25
1,2-Dichloroethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,2-Dichloroethane	13	U	13		ug/L			10/20/17 12:38	25
Trichloroethene	0.50	U	0.50		ug/L			10/20/17 11:22	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: AGMWP-W-39868

Lab Sample ID: 200-40524-1

Date Collected: 10/17/17 13:36

Matrix: Water

Date Received: 10/19/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	13	U	13		ug/L			10/20/17 12:38	25
Methylcyclohexane	0.50	U	0.50		ug/L			10/20/17 11:22	1
Methylcyclohexane	13	U	13		ug/L			10/20/17 12:38	25
1,2-Dichloropropane	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,2-Dichloropropane	13	U	13		ug/L			10/20/17 12:38	25
Bromodichloromethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
Bromodichloromethane	13	U	13		ug/L			10/20/17 12:38	25
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			10/20/17 11:22	1
cis-1,3-Dichloropropene	13	U	13		ug/L			10/20/17 12:38	25
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			10/20/17 11:22	1
4-Methyl-2-pentanone	130	U	130		ug/L			10/20/17 12:38	25
Toluene	0.50	U	0.50		ug/L			10/20/17 11:22	1
Toluene	13	U	13		ug/L			10/20/17 12:38	25
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			10/20/17 11:22	1
trans-1,3-Dichloropropene	13	U	13		ug/L			10/20/17 12:38	25
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,1,2-Trichloroethane	13	U	13		ug/L			10/20/17 12:38	25
Tetrachloroethene	0.50	U	0.50		ug/L			10/20/17 11:22	1
Tetrachloroethene	13	U	13		ug/L			10/20/17 12:38	25
2-Hexanone	5.0	U	5.0		ug/L			10/20/17 11:22	1
2-Hexanone	130	U	130		ug/L			10/20/17 12:38	25
Dibromochloromethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
Dibromochloromethane	13	U	13		ug/L			10/20/17 12:38	25
1,2-Dibromoethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,2-Dibromoethane	13	U	13		ug/L			10/20/17 12:38	25
Chlorobenzene	0.50	U	0.50		ug/L			10/20/17 11:22	1
Chlorobenzene	13	U	13		ug/L			10/20/17 12:38	25
Ethylbenzene	0.50	U	0.50		ug/L			10/20/17 11:22	1
Ethylbenzene	13	U	13		ug/L			10/20/17 12:38	25
o-Xylene	0.50	U	0.50		ug/L			10/20/17 11:22	1
o-Xylene	13	U	13		ug/L			10/20/17 12:38	25
m,p-Xylene	0.50	U	0.50		ug/L			10/20/17 11:22	1
m,p-Xylene	13	U	13		ug/L			10/20/17 12:38	25
Styrene	0.50	U	0.50		ug/L			10/20/17 11:22	1
Styrene	13	U	13		ug/L			10/20/17 12:38	25
Bromoform	0.50	U	0.50		ug/L			10/20/17 11:22	1
Bromoform	13	U	13		ug/L			10/20/17 12:38	25
Isopropylbenzene	0.50	U	0.50		ug/L			10/20/17 11:22	1
Isopropylbenzene	13	U	13		ug/L			10/20/17 12:38	25
1,1,1,2-Tetrachloroethane	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,1,1,2-Tetrachloroethane	13	U	13		ug/L			10/20/17 12:38	25
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,3-Dichlorobenzene	13	U	13		ug/L			10/20/17 12:38	25
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,4-Dichlorobenzene	13	U	13		ug/L			10/20/17 12:38	25
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,2-Dichlorobenzene	13	U	13		ug/L			10/20/17 12:38	25
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,2-Dibromo-3-chloropropane	13	U	13		ug/L			10/20/17 12:38	25

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: AGMWP-W-39868

Lab Sample ID: 200-40524-1

Date Collected: 10/17/17 13:36

Matrix: Water

Date Received: 10/19/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,2,4-Trichlorobenzene	13	U	13		ug/L			10/20/17 12:38	25
1,2,3-Trichlorobenzene	0.50	U	0.50		ug/L			10/20/17 11:22	1
1,2,3-Trichlorobenzene	13	U	13		ug/L			10/20/17 12:38	25

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/20/17 11:22	1
Tentatively Identified Compound	None		ug/L					10/20/17 12:38	25
Total Alkanes			ug/L			STL00989		10/20/17 11:22	1
Total Alkanes			ug/L			STL00989		10/20/17 12:38	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	85		40 - 130		10/20/17 11:22	1
Vinyl chloride-d3	76		40 - 130		10/20/17 12:38	25
Chloroethane-d5	97		65 - 130		10/20/17 11:22	1
Chloroethane-d5	86		65 - 130		10/20/17 12:38	25
1,1-Dichloroethene-d2	76		60 - 125		10/20/17 11:22	1
1,1-Dichloroethene-d2	69		60 - 125		10/20/17 12:38	25
2-Butanone-d5	132 *		40 - 130		10/20/17 11:22	1
2-Butanone-d5	122		40 - 130		10/20/17 12:38	25
Chloroform-d	99		70 - 125		10/20/17 11:22	1
Chloroform-d	90		70 - 125		10/20/17 12:38	25
1,2-Dichloroethane-d4	101		70 - 130		10/20/17 11:22	1
1,2-Dichloroethane-d4	98		70 - 130		10/20/17 12:38	25
Benzene-d6	95		70 - 125		10/20/17 11:22	1
Benzene-d6	88		70 - 125		10/20/17 12:38	25
1,2-Dichloropropane-d6	78		60 - 140		10/20/17 11:22	1
1,2-Dichloropropane-d6	75		60 - 140		10/20/17 12:38	25
Toluene-d8	95		70 - 130		10/20/17 11:22	1
Toluene-d8	90		70 - 130		10/20/17 12:38	25
trans-1,3-Dichloropropene-d4	92		55 - 130		10/20/17 11:22	1
trans-1,3-Dichloropropene-d4	86		55 - 130		10/20/17 12:38	25
2-Hexanone-d5	127		45 - 130		10/20/17 11:22	1
2-Hexanone-d5	116		45 - 130		10/20/17 12:38	25
1,1,2,2-Tetrachloroethane-d2	93		65 - 120		10/20/17 11:22	1
1,1,2,2-Tetrachloroethane-d2	90		65 - 120		10/20/17 12:38	25
1,2-Dichlorobenzene-d4	99		80 - 120		10/20/17 11:22	1
1,2-Dichlorobenzene-d4	95		80 - 120		10/20/17 12:38	25

Client Sample ID: AGGW3-W-39871

Lab Sample ID: 200-40524-2

Date Collected: 10/17/17 17:05

Matrix: Water

Date Received: 10/19/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
Dichlorodifluoromethane	50	U	50		ug/L			10/20/17 14:28	100
Chloromethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
Chloromethane	50	U	50		ug/L			10/20/17 14:28	100
Vinyl chloride	0.50	U	0.50		ug/L			10/20/17 12:13	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: AGGW3-W-39871

Lab Sample ID: 200-40524-2

Date Collected: 10/17/17 17:05

Matrix: Water

Date Received: 10/19/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	50	U	50		ug/L			10/20/17 14:28	100
Bromomethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
Bromomethane	50	U	50		ug/L			10/20/17 14:28	100
Chloroethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
Chloroethane	50	U	50		ug/L			10/20/17 14:28	100
Trichlorofluoromethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
Trichlorofluoromethane	50	U	50		ug/L			10/20/17 14:28	100
1,1-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,1-Dichloroethene	50	U	50		ug/L			10/20/17 14:28	100
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	50	U	50		ug/L			10/20/17 14:28	100
Acetone	5.0	U	5.0		ug/L			10/20/17 12:13	1
Acetone	500	U	500		ug/L			10/20/17 14:28	100
Carbon disulfide	0.50	U	0.50		ug/L			10/20/17 12:13	1
Carbon disulfide	50	U	50		ug/L			10/20/17 14:28	100
Methyl acetate	0.50	U	0.50		ug/L			10/20/17 12:13	1
Methyl acetate	50	U	50		ug/L			10/20/17 14:28	100
Methylene Chloride	0.50	U	0.50		ug/L			10/20/17 12:13	1
Methylene Chloride	50	U	50		ug/L			10/20/17 14:28	100
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 12:13	1
trans-1,2-Dichloroethene	50	U	50		ug/L			10/20/17 14:28	100
Methyl tert-butyl ether	0.50	U	0.50		ug/L			10/20/17 12:13	1
Methyl tert-butyl ether	50	U	50		ug/L			10/20/17 14:28	100
1,1-Dichloroethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,1-Dichloroethane	50	U	50		ug/L			10/20/17 14:28	100
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 12:13	1
cis-1,2-Dichloroethene	50	U	50		ug/L			10/20/17 14:28	100
2-Butanone	5.0	U	5.0		ug/L			10/20/17 12:13	1
2-Butanone	500	U	500		ug/L			10/20/17 14:28	100
Bromochloromethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
Bromochloromethane	50	U	50		ug/L			10/20/17 14:28	100
Chloroform	12		0.50		ug/L			10/20/17 12:13	1
Chloroform	11 J D		50		ug/L			10/20/17 14:28	100
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,1,1-Trichloroethane	50	U	50		ug/L			10/20/17 14:28	100
Cyclohexane	0.50	U	0.50		ug/L			10/20/17 12:13	1
Cyclohexane	50	U	50		ug/L			10/20/17 14:28	100
Carbon tetrachloride	420 E		0.50		ug/L			10/20/17 12:13	1
Carbon tetrachloride	840 D		50		ug/L			10/20/17 14:28	100
Benzene	0.50	U	0.50		ug/L			10/20/17 12:13	1
Benzene	50	U	50		ug/L			10/20/17 14:28	100
1,2-Dichloroethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,2-Dichloroethane	50	U	50		ug/L			10/20/17 14:28	100
Trichloroethene	0.50	U	0.50		ug/L			10/20/17 12:13	1
Trichloroethene	50	U	50		ug/L			10/20/17 14:28	100
Methylcyclohexane	0.50	U	0.50		ug/L			10/20/17 12:13	1
Methylcyclohexane	50	U	50		ug/L			10/20/17 14:28	100
1,2-Dichloropropane	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,2-Dichloropropane	50	U	50		ug/L			10/20/17 14:28	100

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: AGGW3-W-39871

Lab Sample ID: 200-40524-2

Date Collected: 10/17/17 17:05

Matrix: Water

Date Received: 10/19/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
Bromodichloromethane	50	U	50		ug/L			10/20/17 14:28	100
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			10/20/17 12:13	1
cis-1,3-Dichloropropene	50	U	50		ug/L			10/20/17 14:28	100
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			10/20/17 12:13	1
4-Methyl-2-pentanone	500	U	500		ug/L			10/20/17 14:28	100
Toluene	0.50	U	0.50		ug/L			10/20/17 12:13	1
Toluene	50	U	50		ug/L			10/20/17 14:28	100
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			10/20/17 12:13	1
trans-1,3-Dichloropropene	50	U	50		ug/L			10/20/17 14:28	100
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,1,2-Trichloroethane	50	U	50		ug/L			10/20/17 14:28	100
Tetrachloroethene	0.50	U	0.50		ug/L			10/20/17 12:13	1
Tetrachloroethene	50	U	50		ug/L			10/20/17 14:28	100
2-Hexanone	5.0	U	5.0		ug/L			10/20/17 12:13	1
2-Hexanone	500	U	500		ug/L			10/20/17 14:28	100
Dibromochloromethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
Dibromochloromethane	50	U	50		ug/L			10/20/17 14:28	100
1,2-Dibromoethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,2-Dibromoethane	50	U	50		ug/L			10/20/17 14:28	100
Chlorobenzene	0.50	U	0.50		ug/L			10/20/17 12:13	1
Chlorobenzene	50	U	50		ug/L			10/20/17 14:28	100
Ethylbenzene	0.50	U	0.50		ug/L			10/20/17 12:13	1
Ethylbenzene	50	U	50		ug/L			10/20/17 14:28	100
o-Xylene	0.50	U	0.50		ug/L			10/20/17 12:13	1
o-Xylene	50	U	50		ug/L			10/20/17 14:28	100
m,p-Xylene	0.50	U	0.50		ug/L			10/20/17 12:13	1
m,p-Xylene	50	U	50		ug/L			10/20/17 14:28	100
Styrene	0.50	U	0.50		ug/L			10/20/17 12:13	1
Styrene	50	U	50		ug/L			10/20/17 14:28	100
Bromoform	0.50	U	0.50		ug/L			10/20/17 12:13	1
Bromoform	50	U	50		ug/L			10/20/17 14:28	100
Isopropylbenzene	0.50	U	0.50		ug/L			10/20/17 12:13	1
Isopropylbenzene	50	U	50		ug/L			10/20/17 14:28	100
1,1,1,2-Tetrachloroethane	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,1,1,2-Tetrachloroethane	50	U	50		ug/L			10/20/17 14:28	100
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,3-Dichlorobenzene	50	U	50		ug/L			10/20/17 14:28	100
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,4-Dichlorobenzene	50	U	50		ug/L			10/20/17 14:28	100
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,2-Dichlorobenzene	50	U	50		ug/L			10/20/17 14:28	100
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,2-Dibromo-3-chloropropane	50	U	50		ug/L			10/20/17 14:28	100
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,2,4-Trichlorobenzene	50	U	50		ug/L			10/20/17 14:28	100
1,2,3-Trichlorobenzene	0.50	U	0.50		ug/L			10/20/17 12:13	1
1,2,3-Trichlorobenzene	50	U	50		ug/L			10/20/17 14:28	100

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: AGGW3-W-39871

Lab Sample ID: 200-40524-2

Date Collected: 10/17/17 17:05

Matrix: Water

Date Received: 10/19/17 10:15

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/20/17 12:13	1
Tentatively Identified Compound	None		ug/L					10/20/17 14:28	100
Total Alkanes			ug/L			STL00989		10/20/17 12:13	1
Total Alkanes			ug/L			STL00989		10/20/17 14:28	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	78		40 - 130		10/20/17 12:13	1
Vinyl chloride-d3	80		40 - 130		10/20/17 14:28	100
Chloroethane-d5	89		65 - 130		10/20/17 12:13	1
Chloroethane-d5	92		65 - 130		10/20/17 14:28	100
1,1-Dichloroethene-d2	71		60 - 125		10/20/17 12:13	1
1,1-Dichloroethene-d2	72		60 - 125		10/20/17 14:28	100
2-Butanone-d5	126		40 - 130		10/20/17 12:13	1
2-Butanone-d5	100		40 - 130		10/20/17 14:28	100
Chloroform-d	102		70 - 125		10/20/17 12:13	1
Chloroform-d	93		70 - 125		10/20/17 14:28	100
1,2-Dichloroethane-d4	98		70 - 130		10/20/17 12:13	1
1,2-Dichloroethane-d4	101		70 - 130		10/20/17 14:28	100
Benzene-d6	101		70 - 125		10/20/17 12:13	1
Benzene-d6	90		70 - 125		10/20/17 14:28	100
1,2-Dichloropropane-d6	77		60 - 140		10/20/17 12:13	1
1,2-Dichloropropane-d6	76		60 - 140		10/20/17 14:28	100
Toluene-d8	93		70 - 130		10/20/17 12:13	1
Toluene-d8	93		70 - 130		10/20/17 14:28	100
trans-1,3-Dichloropropene-d4	91		55 - 130		10/20/17 12:13	1
trans-1,3-Dichloropropene-d4	86		55 - 130		10/20/17 14:28	100
2-Hexanone-d5	124		45 - 130		10/20/17 12:13	1
2-Hexanone-d5	99		45 - 130		10/20/17 14:28	100
1,1,2,2-Tetrachloroethane-d2	92		65 - 120		10/20/17 12:13	1
1,1,2,2-Tetrachloroethane-d2	91		65 - 120		10/20/17 14:28	100
1,2-Dichlorobenzene-d4	94		80 - 120		10/20/17 12:13	1
1,2-Dichlorobenzene-d4	94		80 - 120		10/20/17 14:28	100

Client Sample ID: AGQCTB-W-39877

Lab Sample ID: 200-40524-3

Date Collected: 10/17/17 09:00

Matrix: Water

Date Received: 10/19/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Chloromethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Vinyl chloride	0.50	U	0.50		ug/L			10/20/17 13:37	1
Bromomethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Chloroethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Acetone	3.0	J B	5.0		ug/L			10/20/17 13:37	1
Carbon disulfide	0.50	U	0.50		ug/L			10/20/17 13:37	1
Methyl acetate	0.50	U	0.50		ug/L			10/20/17 13:37	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: AGQCTB-W-39877

Lab Sample ID: 200-40524-3

Date Collected: 10/17/17 09:00

Matrix: Water

Date Received: 10/19/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.50	U	0.50		ug/L			10/20/17 13:37	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 13:37	1
Methyl tert-butyl ether	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 13:37	1
2-Butanone	5.0	U	5.0		ug/L			10/20/17 13:37	1
Bromochloromethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Chloroform	0.15	J	0.50		ug/L			10/20/17 13:37	1
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Cyclohexane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Carbon tetrachloride	0.50	U	0.50		ug/L			10/20/17 13:37	1
Benzene	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Trichloroethene	0.50	U	0.50		ug/L			10/20/17 13:37	1
Methylcyclohexane	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Bromodichloromethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			10/20/17 13:37	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			10/20/17 13:37	1
Toluene	0.16	J	0.50		ug/L			10/20/17 13:37	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Tetrachloroethene	0.50	U	0.50		ug/L			10/20/17 13:37	1
2-Hexanone	5.0	U	5.0		ug/L			10/20/17 13:37	1
Dibromochloromethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
Chlorobenzene	0.50	U	0.50		ug/L			10/20/17 13:37	1
Ethylbenzene	0.50	U	0.50		ug/L			10/20/17 13:37	1
o-Xylene	0.50	U	0.50		ug/L			10/20/17 13:37	1
m,p-Xylene	0.50	U	0.50		ug/L			10/20/17 13:37	1
Styrene	0.50	U	0.50		ug/L			10/20/17 13:37	1
Bromoform	0.50	U	0.50		ug/L			10/20/17 13:37	1
Isopropylbenzene	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			10/20/17 13:37	1
1,2,3-Trichlorobenzene	0.50	U	0.50		ug/L			10/20/17 13:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/20/17 13:37	1
Total Alkanes			ug/L			STL00989		10/20/17 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	79		40 - 130		10/20/17 13:37	1
Chloroethane-d5	88		65 - 130		10/20/17 13:37	1
1,1-Dichloroethene-d2	70		60 - 125		10/20/17 13:37	1
2-Butanone-d5	120		40 - 130		10/20/17 13:37	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: AGQCTB-W-39877

Date Collected: 10/17/17 09:00

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40524-3

Matrix: Water

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Chloroform-d	92		70 - 125		10/20/17 13:37	1
1,2-Dichloroethane-d4	101		70 - 130		10/20/17 13:37	1
Benzene-d6	90		70 - 125		10/20/17 13:37	1
1,2-Dichloropropane-d6	75		60 - 140		10/20/17 13:37	1
Toluene-d8	90		70 - 130		10/20/17 13:37	1
trans-1,3-Dichloropropene-d4	86		55 - 130		10/20/17 13:37	1
2-Hexanone-d5	115		45 - 130		10/20/17 13:37	1
1,1,2,2-Tetrachloroethane-d2	91		65 - 120		10/20/17 13:37	1
1,2-Dichlorobenzene-d4	94		80 - 120		10/20/17 13:37	1

Client Sample ID: VHBLK01

Date Collected: 10/19/17 00:00

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40524-4

Matrix: Water

Method: SOM02.2/VOA_Tr - Trace Water

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Chloromethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Vinyl chloride	0.50	U	0.50		ug/L			10/20/17 14:53	1
Bromomethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Chloroethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Acetone	1.3	J B	5.0		ug/L			10/20/17 14:53	1
Carbon disulfide	0.50	U	0.50		ug/L			10/20/17 14:53	1
Methyl acetate	0.50	U	0.50		ug/L			10/20/17 14:53	1
Methylene Chloride	0.50	U	0.50		ug/L			10/20/17 14:53	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 14:53	1
Methyl tert-butyl ether	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 14:53	1
2-Butanone	5.0	U	5.0		ug/L			10/20/17 14:53	1
Bromochloromethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Chloroform	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Cyclohexane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Carbon tetrachloride	0.50	U	0.50		ug/L			10/20/17 14:53	1
Benzene	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Trichloroethene	0.50	U	0.50		ug/L			10/20/17 14:53	1
Methylcyclohexane	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Bromodichloromethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			10/20/17 14:53	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			10/20/17 14:53	1
Toluene	0.50	U	0.50		ug/L			10/20/17 14:53	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			10/20/17 14:53	1

TestAmerica Burlington

Client Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: VHBLK01

Lab Sample ID: 200-40524-4

Date Collected: 10/19/17 00:00

Matrix: Water

Date Received: 10/19/17 10:15

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Analyte	Result	Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.50	U	0.50		ug/L			10/20/17 14:53	1
2-Hexanone	5.0	U	5.0		ug/L			10/20/17 14:53	1
Dibromochloromethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
Chlorobenzene	0.50	U	0.50		ug/L			10/20/17 14:53	1
Ethylbenzene	0.50	U	0.50		ug/L			10/20/17 14:53	1
o-Xylene	0.50	U	0.50		ug/L			10/20/17 14:53	1
m,p-Xylene	0.50	U	0.50		ug/L			10/20/17 14:53	1
Styrene	0.50	U	0.50		ug/L			10/20/17 14:53	1
Bromoform	0.50	U	0.50		ug/L			10/20/17 14:53	1
Isopropylbenzene	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			10/20/17 14:53	1
1,2,3-Trichlorobenzene	0.50	U	0.50		ug/L			10/20/17 14:53	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/20/17 14:53	1
Total Alkanes			ug/L			STL00989		10/20/17 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	81		40 - 130		10/20/17 14:53	1
Chloroethane-d5	92		65 - 130		10/20/17 14:53	1
1,1-Dichloroethene-d2	72		60 - 125		10/20/17 14:53	1
2-Butanone-d5	102		40 - 130		10/20/17 14:53	1
Chloroform-d	93		70 - 125		10/20/17 14:53	1
1,2-Dichloroethane-d4	102		70 - 130		10/20/17 14:53	1
Benzene-d6	94		70 - 125		10/20/17 14:53	1
1,2-Dichloropropane-d6	78		60 - 140		10/20/17 14:53	1
Toluene-d8	94		70 - 130		10/20/17 14:53	1
trans-1,3-Dichloropropene-d4	88		55 - 130		10/20/17 14:53	1
2-Hexanone-d5	98		45 - 130		10/20/17 14:53	1
1,1,2,2-Tetrachloroethane-d2	91		65 - 120		10/20/17 14:53	1
1,2-Dichlorobenzene-d4	96		80 - 120		10/20/17 14:53	1

Default Detection Limits

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Method: SOM02.2/VOA_Tr - Trace Water

Analyte	RL	MDLE	Units	Method
1,1,1-Trichloroethane	0.50	0.10	ug/L	SOM02.2/VOA_Tr
1,1,2,2-Tetrachloroethane	0.50	0.079	ug/L	SOM02.2/VOA_Tr
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.12	ug/L	SOM02.2/VOA_Tr
1,1,2-Trichloroethane	0.50	0.085	ug/L	SOM02.2/VOA_Tr
1,1-Dichloroethane	0.50	0.10	ug/L	SOM02.2/VOA_Tr
1,1-Dichloroethene	0.50	0.090	ug/L	SOM02.2/VOA_Tr
1,2,3-Trichlorobenzene	0.50	0.059	ug/L	SOM02.2/VOA_Tr
1,2,4-Trichlorobenzene	0.50	0.068	ug/L	SOM02.2/VOA_Tr
1,2-Dibromo-3-chloropropane	0.50	0.13	ug/L	SOM02.2/VOA_Tr
1,2-Dibromoethane	0.50	0.10	ug/L	SOM02.2/VOA_Tr
1,2-Dichlorobenzene	0.50	0.075	ug/L	SOM02.2/VOA_Tr
1,2-Dichloroethane	0.50	0.092	ug/L	SOM02.2/VOA_Tr
1,2-Dichloropropane	0.50	0.19	ug/L	SOM02.2/VOA_Tr
1,3-Dichlorobenzene	0.50	0.069	ug/L	SOM02.2/VOA_Tr
1,4-Dichlorobenzene	0.50	0.078	ug/L	SOM02.2/VOA_Tr
2-Butanone	5.0	1.0	ug/L	SOM02.2/VOA_Tr
2-Hexanone	5.0	0.64	ug/L	SOM02.2/VOA_Tr
4-Methyl-2-pentanone	5.0	0.98	ug/L	SOM02.2/VOA_Tr
Acetone	5.0	1.3	ug/L	SOM02.2/VOA_Tr
Benzene	0.50	0.17	ug/L	SOM02.2/VOA_Tr
Bromochloromethane	0.50	0.10	ug/L	SOM02.2/VOA_Tr
Bromodichloromethane	0.50	0.072	ug/L	SOM02.2/VOA_Tr
Bromoform	0.50	0.091	ug/L	SOM02.2/VOA_Tr
Bromomethane	0.50	0.097	ug/L	SOM02.2/VOA_Tr
Carbon disulfide	0.50	0.091	ug/L	SOM02.2/VOA_Tr
Carbon tetrachloride	0.50	0.088	ug/L	SOM02.2/VOA_Tr
Chlorobenzene	0.50	0.085	ug/L	SOM02.2/VOA_Tr
Chloroethane	0.50	0.17	ug/L	SOM02.2/VOA_Tr
Chloroform	0.50	0.10	ug/L	SOM02.2/VOA_Tr
Chloromethane	0.50	0.10	ug/L	SOM02.2/VOA_Tr
cis-1,2-Dichloroethene	0.50	0.094	ug/L	SOM02.2/VOA_Tr
cis-1,3-Dichloropropene	0.50	0.12	ug/L	SOM02.2/VOA_Tr
Cyclohexane	0.50	0.11	ug/L	SOM02.2/VOA_Tr
Dibromochloromethane	0.50	0.079	ug/L	SOM02.2/VOA_Tr
Dichlorodifluoromethane	0.50	0.096	ug/L	SOM02.2/VOA_Tr
Ethylbenzene	0.50	0.058	ug/L	SOM02.2/VOA_Tr
Isopropylbenzene	0.50	0.040	ug/L	SOM02.2/VOA_Tr
m,p-Xylene	0.50	0.058	ug/L	SOM02.2/VOA_Tr
Methyl acetate	0.50	0.12	ug/L	SOM02.2/VOA_Tr
Methyl tert-butyl ether	0.50	0.080	ug/L	SOM02.2/VOA_Tr
Methylcyclohexane	0.50	0.19	ug/L	SOM02.2/VOA_Tr
Methylene Chloride	0.50	0.098	ug/L	SOM02.2/VOA_Tr
o-Xylene	0.50	0.040	ug/L	SOM02.2/VOA_Tr
Styrene	0.50	0.041	ug/L	SOM02.2/VOA_Tr
Tetrachloroethene	0.50	0.070	ug/L	SOM02.2/VOA_Tr
Toluene	0.50	0.14	ug/L	SOM02.2/VOA_Tr
trans-1,2-Dichloroethene	0.50	0.11	ug/L	SOM02.2/VOA_Tr
trans-1,3-Dichloropropene	0.50	0.034	ug/L	SOM02.2/VOA_Tr
Trichloroethene	0.50	0.18	ug/L	SOM02.2/VOA_Tr
Trichlorofluoromethane	0.50	0.12	ug/L	SOM02.2/VOA_Tr
Vinyl chloride	0.50	0.097	ug/L	SOM02.2/VOA_Tr

TestAmerica Burlington

Surrogate Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Method: SOM02.2/VOA_Tr - Trace Water

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	μ l chloride (40-130)	chloroethane (65-130)	1,1-dichloroethane (60-125)	2-butanone (40-130)	chloroform (70-125)	1,2-DCE (70-130)	benzene-d6 (70-125)	1,1,2,2-tetrachloroethane (60-140)
200-40524-1	AGMWP-W-39868	85	97	76	132 *	99	101	95	78
200-40524-1	AGMWP-W-39868	76	86	69	122	90	98	88	75
200-40524-2	AGGW3-W-39871	80	92	72	100	93	101	90	76
200-40524-2	AGGW3-W-39871	78	89	71	126	102	98	101	77
200-40524-3	AGQCTB-W-39877	79	88	70	120	92	101	90	75
200-40524-4	VHBLK01	81	92	72	102	93	102	94	78
MB 200-122347/5	Method Blank	77	86	69	99	89	95	91	75

		Percent Surrogate Recovery (Acceptance Limits)				
Lab Sample ID	Client Sample ID	TOL (70-130)	1,1-dichloroethane (55-130)	2-hexanone (45-130)	trans-1,3-dichloropropene (65-120)	1,2-DCB (80-120)
200-40524-1	AGMWP-W-39868	95	92	127	93	99
200-40524-1	AGMWP-W-39868	90	86	116	90	95
200-40524-2	AGGW3-W-39871	93	86	99	91	94
200-40524-2	AGGW3-W-39871	93	91	124	92	94
200-40524-3	AGQCTB-W-39877	90	86	115	91	94
200-40524-4	VHBLK01	94	88	98	91	96
MB 200-122347/5	Method Blank	91	86	98	88	91

Surrogate Legend

Vinyl chloride-d3 = Vinyl chloride-d3
Chloroethane-d5 = Chloroethane-d5
1,1-Dichloroethene-d2 = 1,1-Dichloroethene-d2
2-Butanone-d5 = 2-Butanone-d5
Chloroform-d = Chloroform-d
1,2-DCE = 1,2-Dichloroethane-d4
Benzene-d6 = Benzene-d6
1,2-Dichloropropane-d6 = 1,2-Dichloropropane-d6
TOL = Toluene-d8
trans-1,3-Dichloropropene-d4 = trans-1,3-Dichloropropene-d4
2-Hexanone-d5 = 2-Hexanone-d5
1,1,2,2-Tetrachloroethane-d2 = 1,1,2,2-Tetrachloroethane-d2
1,2-DCB = 1,2-Dichlorobenzene-d4

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Method: SOM02.2/VOA_Tr - Trace Water

Lab Sample ID: MB 200-122347/5

Matrix: Water

Analysis Batch: 122347

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Chloromethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Vinyl chloride	0.50	U	0.50		ug/L			10/20/17 10:35	1
Bromomethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Chloroethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Acetone	1.9	J	5.0		ug/L			10/20/17 10:35	1
Carbon disulfide	0.50	U	0.50		ug/L			10/20/17 10:35	1
Methyl acetate	0.50	U	0.50		ug/L			10/20/17 10:35	1
Methylene Chloride	0.50	U	0.50		ug/L			10/20/17 10:35	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 10:35	1
Methyl tert-butyl ether	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			10/20/17 10:35	1
2-Butanone	5.0	U	5.0		ug/L			10/20/17 10:35	1
Bromochloromethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Chloroform	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Cyclohexane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Carbon tetrachloride	0.50	U	0.50		ug/L			10/20/17 10:35	1
Benzene	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Trichloroethene	0.50	U	0.50		ug/L			10/20/17 10:35	1
Methylcyclohexane	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Bromodichloromethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			10/20/17 10:35	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			10/20/17 10:35	1
Toluene	0.50	U	0.50		ug/L			10/20/17 10:35	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Tetrachloroethene	0.50	U	0.50		ug/L			10/20/17 10:35	1
2-Hexanone	5.0	U	5.0		ug/L			10/20/17 10:35	1
Dibromochloromethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
Chlorobenzene	0.50	U	0.50		ug/L			10/20/17 10:35	1
Ethylbenzene	0.50	U	0.50		ug/L			10/20/17 10:35	1
o-Xylene	0.50	U	0.50		ug/L			10/20/17 10:35	1
m,p-Xylene	0.50	U	0.50		ug/L			10/20/17 10:35	1
Styrene	0.50	U	0.50		ug/L			10/20/17 10:35	1
Bromoform	0.50	U	0.50		ug/L			10/20/17 10:35	1
Isopropylbenzene	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			10/20/17 10:35	1

TestAmerica Burlington

QC Sample Results

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Method: SOM02.2/VOA_Tr - Trace Water (Continued)

Lab Sample ID: MB 200-122347/5

Matrix: Water

Analysis Batch: 122347

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDLE	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-chloropropane	0.50	U	0.50		ug/L			10/20/17 10:35	1
1,2,4-Trichlorobenzene	0.20	J	0.50		ug/L			10/20/17 10:35	1
1,2,3-Trichlorobenzene	0.41	J	0.50		ug/L			10/20/17 10:35	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/20/17 10:35	1
Total Alkanes			ug/L			STL00989		10/20/17 10:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Vinyl chloride-d3	77		40 - 130		10/20/17 10:35	1
Chloroethane-d5	86		65 - 130		10/20/17 10:35	1
1,1-Dichloroethene-d2	69		60 - 125		10/20/17 10:35	1
2-Butanone-d5	99		40 - 130		10/20/17 10:35	1
Chloroform-d	89		70 - 125		10/20/17 10:35	1
1,2-Dichloroethane-d4	95		70 - 130		10/20/17 10:35	1
Benzene-d6	91		70 - 125		10/20/17 10:35	1
1,2-Dichloropropane-d6	75		60 - 140		10/20/17 10:35	1
Toluene-d8	91		70 - 130		10/20/17 10:35	1
trans-1,3-Dichloropropene-d4	86		55 - 130		10/20/17 10:35	1
2-Hexanone-d5	98		45 - 130		10/20/17 10:35	1
1,1,1,2-Tetrachloroethane-d2	88		65 - 120		10/20/17 10:35	1
1,2-Dichlorobenzene-d4	91		80 - 120		10/20/17 10:35	1

QC Association Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

GC/MS VOA

Analysis Batch: 122347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-40524-1	AGMWP-W-39868	Total/NA	Water	SOM02.2/VOA_ Tr	
200-40524-1	AGMWP-W-39868	Total/NA	Water	SOM02.2/VOA_ Tr	
200-40524-2	AGGW3-W-39871	Total/NA	Water	SOM02.2/VOA_ Tr	
200-40524-2	AGGW3-W-39871	Total/NA	Water	SOM02.2/VOA_ Tr	
200-40524-3	AGQCTB-W-39877	Total/NA	Water	SOM02.2/VOA_ Tr	
200-40524-4	VHBLK01	Total/NA	Water	SOM02.2/VOA_ Tr	
MB 200-122347/5	Method Blank	Total/NA	Water	SOM02.2/VOA_ Tr	

Lab Chronicle

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Client Sample ID: AGMWP-W-39868

Date Collected: 10/17/17 13:36

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40524-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SOM02.2/VOA_Tr		1	122347	10/20/17 11:22	JVG	TAL BUR
Total/NA	Analysis	SOM02.2/VOA_Tr		25	122347	10/20/17 12:38	JVG	TAL BUR

Client Sample ID: AGGW3-W-39871

Date Collected: 10/17/17 17:05

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40524-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SOM02.2/VOA_Tr		1	122347	10/20/17 12:13	JVG	TAL BUR
Total/NA	Analysis	SOM02.2/VOA_Tr		100	122347	10/20/17 14:28	JVG	TAL BUR

Client Sample ID: AGQCTB-W-39877

Date Collected: 10/17/17 09:00

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40524-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SOM02.2/VOA_Tr		1	122347	10/20/17 13:37	JVG	TAL BUR

Client Sample ID: VHBLK01

Date Collected: 10/19/17 00:00

Date Received: 10/19/17 10:15

Lab Sample ID: 200-40524-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SOM02.2/VOA_Tr		1	122347	10/20/17 14:53	JVG	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-18
L-A-B	DoD ELAP		L2336	02-25-20
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-18
Pennsylvania	NELAP	3	68-00489	04-30-18
Rhode Island	State Program	1	LAO00298	12-30-17
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	12-05-19
Vermont	State Program	1	VT-4000	12-31-17
Virginia	NELAP	3	460209	12-14-17

Method Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Method	Method Description	Protocol	Laboratory
SOM02.2/VOA_Tr	Trace Water	SOM02.2	TAL BUR

Protocol References:

SOM02.2 = SOM02.2

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Argonne National Laboratory
Project/Site: Agra, KS (200-40524)

TestAmerica Job ID: 200-40524-1
SDG: 200-40524-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-40524-1	AGMWP-W-39868	Water	10/17/17 13:36	10/19/17 10:15
200-40524-2	AGGW3-W-39871	Water	10/17/17 17:05	10/19/17 10:15
200-40524-3	AGQCTB-W-39877	Water	10/17/17 09:00	10/19/17 10:15
200-40524-4	VHBLK01	Water	10/19/17 00:00	10/19/17 10:15

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40524-1

SDG No.: 200-40524-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMBFBw_00029							1,4-Dichlorobenzene-d4	
							1,4-Difluorobenzene	
							Chlorobenzene-d5	
							Tentatively Identified Compound	
							Total Alkanes	
.VMBFBs_00018	09/30/21		RESTEK, Lot A0119957		VMBFBs_00018	125 uL	BFB	25 ug/mL
					(Purchased Reagent)		BFB	5000 ug/mL
VMSOMTRCALw_00134	10/25/17	09/25/17	METHANOL, Lot 171415	2000 uL	VM8260CALbs_00233	21 uL	Bromomethane	21 ug/mL
							Chloroethane	21 ug/mL
							Chloromethane	21 ug/mL
							Dichlorodifluoromethane	21 ug/mL
							Trichlorofluoromethane	21 ug/mL
							Vinyl chloride	21 ug/mL
					VMSOMCALas_00033	21 uL	1,1,1-Trichloroethane	21 ug/mL
							1,1,2,2-Tetrachloroethane	21 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	21 ug/mL
							1,1,2-Trichloroethane	21 ug/mL
							1,1-Dichloroethane	21 ug/mL
							1,1-Dichloroethene	21 ug/mL
							1,2,3-Trichlorobenzene	21 ug/mL
							1,2,4-Trichlorobenzene	21 ug/mL
							1,2-Dibromo-3-chloropropane	21 ug/mL
							1,2-Dibromoethane	21 ug/mL
							1,2-Dichlorobenzene	21 ug/mL
							1,2-Dichloroethane	21 ug/mL
							1,2-Dichloropropane	21 ug/mL
							1,3-Dichlorobenzene	21 ug/mL
							1,4-Dichlorobenzene	21 ug/mL
							Benzene	21 ug/mL
							Bromochloromethane	21 ug/mL
							Bromodichloromethane	21 ug/mL
							Bromoform	21 ug/mL
							Carbon disulfide	21 ug/mL
							Carbon tetrachloride	21 ug/mL
							Chlorobenzene	21 ug/mL
							Chloroform	21 ug/mL
							cis-1,2-Dichloroethene	21 ug/mL
							cis-1,3-Dichloropropene	21 ug/mL
							Cyclohexane	21 ug/mL
							Dibromochloromethane	21 ug/mL
							Ethylbenzene	21 ug/mL
							Isopropylbenzene	21 ug/mL
							m,p-Xylene	21 ug/mL
							Methyl acetate	21 ug/mL
							Methyl tert-butyl ether	21 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40524-1

SDG No.: 200-40524-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	21 ug/mL
							Methylene Chloride	21 ug/mL
							o-Xylene	21 ug/mL
							Styrene	21 ug/mL
							Tetrachloroethene	21 ug/mL
							Toluene	21 ug/mL
							trans-1,2-Dichloroethene	21 ug/mL
							trans-1,3-Dichloropropene	21 ug/mL
							Trichloroethene	21 ug/mL
					VMSOMCALbs_00046	84 uL	2-Butanone	210 ug/mL
							2-Hexanone	210 ug/mL
							4-Methyl-2-pentanone	210 ug/mL
							Acetone	210 ug/mL
					VMSOMSUs_00102	21 uL	Chloroethane-d5	21 ug/mL
							Vinyl chloride-d3	21 ug/mL
					VMSOMSUs_00182	168 uL	2-Butanone-d5	210 ug/mL
							2-Hexanone-d5	210 ug/mL
					VMSOMSUs_00078	21 uL	1,1,2,2-Tetrachloroethane-d2	21 ug/mL
							1,1-Dichloroethene-d2	21 ug/mL
							1,2-Dichlorobenzene-d4	21 ug/mL
							1,2-Dichloroethane-d4	21 ug/mL
							1,2-Dichloropropane-d6	21 ug/mL
							Benzene-d6	21 ug/mL
							Chloroform-d	21 ug/mL
							Toluene-d8	21 ug/mL
							trans-1,3-Dichloropropene-d4	21 ug/mL
.VM8260CALbs_00233	12/23/17	RESTEK, Lot A0126413		(Purchased Reagent)	Bromomethane	2000 ug/mL		
					Chloroethane	2000 ug/mL		
					Chloromethane	2000 ug/mL		
					Dichlorodifluoromethane	2000 ug/mL		
					Trichlorofluoromethane	2000 ug/mL		
					Vinyl chloride	2000 ug/mL		
.VMSOMCALas_00033	03/18/18	Restek, Lot A0117727		(Purchased Reagent)	1,1,1-Trichloroethane	2000 ug/mL		
					1,1,2,2-Tetrachloroethane	2000 ug/mL		
					1,1,2-Trichloro-1,2,2-trifluor oethane	2000 ug/mL		
					1,1,2-Trichloroethane	2000 ug/mL		
					1,1-Dichloroethane	2000 ug/mL		
					1,1-Dichloroethene	2000 ug/mL		
					1,2,3-Trichlorobenzene	2000 ug/mL		
					1,2,4-Trichlorobenzene	2000 ug/mL		
					1,2-Dibromo-3-chloropropane	2000 ug/mL		
					1,2-Dibromoethane	2000 ug/mL		
					1,2-Dichlorobenzene	2000 ug/mL		
					1,2-Dichloroethane	2000 ug/mL		
					1,2-Dichloropropane	2000 ug/mL		
					1,3-Dichlorobenzene	2000 ug/mL		
					1,4-Dichlorobenzene	2000 ug/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40524-1

SDG No.: 200-40524-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m,p-Xylene	2000 ug/mL
							Methyl acetate	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
.VMSOMCALbs_00046	03/18/18	Restek, Lot A0122363			(Purchased Reagent)		2-Butanone	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone	5000 ug/mL
							Acetone	5000 ug/mL
.VMSOMSUas_00102	11/02/19	Absolute, Lot 110219			(Purchased Reagent)		Chloroethane-d5	2000 ug/mL
							Vinyl chloride-d3	2000 ug/mL
.VMSOMSUbs_00182	09/13/18	Absolute, Lot 101816			(Purchased Reagent)		2-Butanone-d5	2500 ug/mL
							2-Hexanone-d5	2500 ug/mL
.VMSOMSUcs_00078	08/16/18	Absolute, Lot 022017			(Purchased Reagent)		1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
							1,1-Dichloroethene-d2	2000 ug/mL
							1,2-Dichlorobenzene-d4	2000 ug/mL
							1,2-Dichloroethane-d4	2000 ug/mL
							1,2-Dichloropropane-d6	2000 ug/mL
							Benzene-d6	2000 ug/mL
							Chloroform-d	2000 ug/mL
							Toluene-d8	2000 ug/mL
VMSOMTRICVw_00010	10/05/17	09/05/17	METHANOL, Lot 171415	2000 uL	VM8260CALbs_00222	21 uL	Bromomethane	21 ug/mL
							Chloroethane	21 ug/mL
							Chloromethane	21 ug/mL
							Dichlorodifluoromethane	21 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40524-1

SDG No.: 200-40524-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VMSOMCALas_00048	21 uL	Trichlorofluoromethane	21 ug/mL
							Vinyl chloride	21 ug/mL
							1,1,1-Trichloroethane	21 ug/mL
							1,1,2,2-Tetrachloroethane	21 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	21 ug/mL
							1,1,2-Trichloroethane	21 ug/mL
							1,1-Dichloroethane	21 ug/mL
							1,1-Dichloroethene	21 ug/mL
							1,2,3-Trichlorobenzene	21 ug/mL
							1,2,4-Trichlorobenzene	21 ug/mL
							1,2-Dibromo-3-chloropropane	21 ug/mL
							1,2-Dibromoethane	21 ug/mL
							1,2-Dichlorobenzene	21 ug/mL
							1,2-Dichloroethane	21 ug/mL
							1,2-Dichloropropane	21 ug/mL
							1,3-Dichlorobenzene	21 ug/mL
							1,4-Dichlorobenzene	21 ug/mL
							Benzene	21 ug/mL
							Bromochloromethane	21 ug/mL
							Bromodichloromethane	21 ug/mL
							Bromoform	21 ug/mL
							Carbon disulfide	21 ug/mL
							Carbon tetrachloride	21 ug/mL
							Chlorobenzene	21 ug/mL
							Chloroform	21 ug/mL
							cis-1,2-Dichloroethene	21 ug/mL
							cis-1,3-Dichloropropene	21 ug/mL
							Cyclohexane	21 ug/mL
							Dibromochloromethane	21 ug/mL
							Ethylbenzene	21 ug/mL
							Isopropylbenzene	21 ug/mL
							m,p-Xylene	21 ug/mL
							Methyl acetate	21 ug/mL
							Methyl tert-butyl ether	21 ug/mL
							Methylcyclohexane	21 ug/mL
							Methylene Chloride	21 ug/mL
							o-Xylene	21 ug/mL
							Styrene	21 ug/mL
							Tetrachloroethene	21 ug/mL
							Toluene	21 ug/mL
							trans-1,2-Dichloroethene	21 ug/mL
							trans-1,3-Dichloropropene	21 ug/mL
							Trichloroethene	21 ug/mL
					VOACALMIX1w_00001	84 uL	2-Butanone	210.756 ug/mL
							2-Hexanone	211.05 ug/mL
							4-Methyl-2-pentanone	211.764 ug/mL
							Acetone	210.546 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40524-1

SDG No.: 200-40524-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VM8260CALbs_00222	12/23/17		RESTEK, Lot A0125204		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.VMSOMCALas_00048	12/15/17		Restek, Lot A0125239		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2-Dibromo-3-chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m,p-Xylene	2000 ug/mL
							Methyl acetate	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-40524-1

SDG No.: 200-40524-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOACALMIX1w_00001	01/14/18		restek, Lot A0125322		(Purchased Reagent)		2-Butanone	5018 ug/mL
							2-Hexanone	5025 ug/mL
							4-Methyl-2-pentanone	5042 ug/mL
							Acetone	5013 ug/mL
VMSOMTRISw_00139	10/17/17	09/18/17	METHANOL, Lot 171415	4000 uL	VMSOMISs_00038	33.6 uL	1,4-Dichlorobenzene-d4	21 ug/mL
							1,4-Difluorobenzene	21 ug/mL
							Chlorobenzene-d5	21 ug/mL
.VMSOMISs_00038	08/31/20		RESTEK, Lot A0113936		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							1,4-Difluorobenzene	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
VMSOMTRISw_00140	11/03/17	10/03/17	METHANOL, Lot 158718	4000 uL	VMSOMISs_00038	33.6 uL	1,4-Dichlorobenzene-d4	21 ug/mL
							1,4-Difluorobenzene	21 ug/mL
							Chlorobenzene-d5	21 ug/mL
.VMSOMISs_00038	08/31/20		RESTEK, Lot A0113936		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							1,4-Difluorobenzene	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
VMSOMTRSUw_00138	10/12/17	09/13/17	METHANOL, Lot 171415	2000 uL	VMSOMSUas_00102	21 uL	Chloroethane-d5	21 ug/mL
							Vinyl chloride-d3	21 ug/mL
					VMSOMSUs_00182	168 uL	2-Butanone-d5	210 ug/mL
							2-Hexanone-d5	210 ug/mL
					VMSOMSUcs_00078	21 uL	1,1,2,2-Tetrachloroethane-d2	21 ug/mL
							1,1-Dichloroethene-d2	21 ug/mL
							1,2-Dichlorobenzene-d4	21 ug/mL
							1,2-Dichloroethane-d4	21 ug/mL
							1,2-Dichloropropane-d6	21 ug/mL
							Benzene-d6	21 ug/mL
							Chloroform-d	21 ug/mL
							Toluene-d8	21 ug/mL
.VMSOMSUas_00102	11/02/19		Absolute, Lot 110219		(Purchased Reagent)		trans-1,3-Dichloropropene-d4	21 ug/mL
							Chloroethane-d5	2000 ug/mL
							Vinyl chloride-d3	2000 ug/mL
.VMSOMSUs_00182	09/13/18		Absolute, Lot 101816		(Purchased Reagent)		2-Butanone-d5	2500 ug/mL
							2-Hexanone-d5	2500 ug/mL
.VMSOMSUcs_00078	08/16/18		Absolute, Lot 022017		(Purchased Reagent)		1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
							1,1-Dichloroethene-d2	2000 ug/mL
							1,2-Dichlorobenzene-d4	2000 ug/mL
							1,2-Dichloroethane-d4	2000 ug/mL
							1,2-Dichloropropane-d6	2000 ug/mL
							Benzene-d6	2000 ug/mL
							Chloroform-d	2000 ug/mL
							Toluene-d8	2000 ug/mL
							trans-1,3-Dichloropropene-d4	2000 ug/mL
VMSOMTRSUw_00139	10/27/17	09/27/17	METHANOL, Lot 171415	2000 uL	VMSOMSUas_00102	21 uL	Chloroethane-d5	21 ug/mL
							Vinyl chloride-d3	21 ug/mL
					VMSOMSUs_00182	168 uL	2-Butanone-d5	210 ug/mL
							2-Hexanone-d5	210 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40524-1SDG No.: 200-40524-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VMSOMSUcs_00078	21 uL	1,1,2,2-Tetrachloroethane-d2	21 ug/mL
							1,1-Dichloroethene-d2	21 ug/mL
							1,2-Dichlorobenzene-d4	21 ug/mL
							1,2-Dichloroethane-d4	21 ug/mL
							1,2-Dichloropropane-d6	21 ug/mL
							Benzene-d6	21 ug/mL
							Chloroform-d	21 ug/mL
							Toluene-d8	21 ug/mL
							trans-1,3-Dichloropropene-d4	21 ug/mL
.VMSOMSUas_00102	11/02/19		Absolute, Lot 110219		(Purchased Reagent)		Chloroethane-d5	2000 ug/mL
							Vinyl chloride-d3	2000 ug/mL
.VMSOMSUbs_00182	09/13/18		Absolute, Lot 101816		(Purchased Reagent)		2-Butanone-d5	2500 ug/mL
							2-Hexanone-d5	2500 ug/mL
.VMSOMSUcs_00078	08/16/18		Absolute, Lot 022017		(Purchased Reagent)		1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
							1,1-Dichloroethene-d2	2000 ug/mL
							1,2-Dichlorobenzene-d4	2000 ug/mL
							1,2-Dichloroethane-d4	2000 ug/mL
							1,2-Dichloropropane-d6	2000 ug/mL
							Benzene-d6	2000 ug/mL
							Chloroform-d	2000 ug/mL
							Toluene-d8	2000 ug/mL
							trans-1,3-Dichloropropene-d4	2000 ug/mL

Method SOM Vol Tr

Trace Volatile Organic Compounds
(GC/MS) by CLP SOM

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
 SDG No.: 200-40524-1
 Matrix: Water Level: Trace
 GC Column (1): DB-624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	VCL #	CLA #	DCE #	BUT #	CLF #	DCA #	BEN #	DPA #
AGMWP-W-39868	200-40524-1	85	97	76	132 *	99	101	95	78
AGMWP-W-39868	200-40524-1	76	86	69	122	90	98	88	75
AGGW3-W-39871	200-40524-2	78	89	71	126	102	98	101	77
AGGW3-W-39871	200-40524-2	80	92	72	100	93	101	90	76
AGQCTB-W-39877	200-40524-3	79	88	70	120	92	101	90	75
VHBLK01	200-40524-4	81	92	72	102	93	102	94	78
	MB 200-122347/5	77	86	69	99	89	95	91	75

	<u>QC LIMITS</u>
VCL = Vinyl chloride-d3	40-130
CLA = Chloroethane-d5	65-130
DCE = 1,1-Dichloroethene-d2	60-125
BUT = 2-Butanone-d5	40-130
CLF = Chloroform-d	70-125
DCA = 1,2-Dichloroethane-d4	70-130
BEN = Benzene-d6	70-125
DPA = 1,2-Dichloropropane-d6	60-140

Column to be used to flag recovery values

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-40524-1

SDG No.: 200-40524-1

Matrix: Water

Level: Trace

GC Column (1): DB-624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	TOL #	TDP #	HEX #	TCA #	DCZ #
AGMWP-W-39868	200-40524-1	95	92	127	93	99
AGMWP-W-39868	200-40524-1	90	86	116	90	95
AGGW3-W-39871	200-40524-2	93	91	124	92	94
AGGW3-W-39871	200-40524-2	93	86	99	91	94
AGQCTB-W-39877	200-40524-3	90	86	115	91	94
VHBLK01	200-40524-4	94	88	98	91	96
	MB 200-122347/5	91	86	98	88	91

TOL = Toluene-d8
TDP = trans-1,3-Dichloropropene-d4
HEX = 2-Hexanone-d5
TCA = 1,1,2,2-Tetrachloroethane-d2
DCZ = 1,2-Dichlorobenzene-d4

QC LIMITS
70-130
55-130
45-130
65-120
80-120

Column to be used to flag recovery values

FORM II SOM02.2/VOA_Tr

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
SDG No.: 200-40524-1
Lab File ID: 27497_05.D Lab Sample ID: MB 200-122347/5
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: CHD.i Date Analyzed: 10/20/2017 10:35
GC Column: DB-624 ID: 0.2 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
AGMWP-W-39868	200-40524-1	27497_06.D	10/20/2017 11:22
AGGW3-W-39871	200-40524-2	27497_08.D	10/20/2017 12:13
AGMWP-W-39868	200-40524-1	27497_09.D	10/20/2017 12:38
AGQCTB-W-39877	200-40524-3	27497_11.D	10/20/2017 13:37
AGGW3-W-39871	200-40524-2	27497_13.D	10/20/2017 14:28
VHBLK01	200-40524-4	27497_14.D	10/20/2017 14:53

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
 SDG No.: 200-40524-1
 Lab File ID: 27205_03.D BFB Injection Date: 10/03/2017
 Instrument ID: CHD.i BFB Injection Time: 11:05
 Analysis Batch No.: 121645

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 80.0% of mass 95	48.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 120% of mass 95	84.2
175	5.0 - 9.0% of mass 174	6.1 (7.2) 1
176	95.0 - 101% of mass 174	84.2 (100.1) 1
177	5.0 - 9.0% of mass 176	5.6 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-121645/6	27205_06.D	10/03/2017	12:23
	IC 200-121645/7	27205_07.D	10/03/2017	12:48
	ICIS 200-121645/8	27205_08.D	10/03/2017	13:14
	IC 200-121645/9	27205_09.D	10/03/2017	13:39
	IC 200-121645/10	27205_10.D	10/03/2017	14:04
	ICV 200-121645/12	27205_12.D	10/03/2017	14:55

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
SDG No.: 200-40524-1
Lab File ID: 27497_02.D BFB Injection Date: 10/20/2017
Instrument ID: CHD.i BFB Injection Time: 08:05
Analysis Batch No.: 122347

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.7
75	30.0 - 80.0% of mass 95	50.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 120% of mass 95	88.1
175	5.0 - 9.0% of mass 174	6.5 (7.4) 1
176	95.0 - 101% of mass 174	88.8 (100.8) 1
177	5.0 - 9.0% of mass 176	5.6 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-122347/4	27497_04.D	10/20/2017	09:55
	MB 200-122347/5	27497_05.D	10/20/2017	10:35
AGMWP-W-39868	200-40524-1	27497_06.D	10/20/2017	11:22
AGGW3-W-39871	200-40524-2	27497_08.D	10/20/2017	12:13
AGMWP-W-39868	200-40524-1	27497_09.D	10/20/2017	12:38
AGQCTB-W-39877	200-40524-3	27497_11.D	10/20/2017	13:37
AGGW3-W-39871	200-40524-2	27497_13.D	10/20/2017	14:28
VHBLK01	200-40524-4	27497_14.D	10/20/2017	14:53
	CCVC 200-122347/15	27497_15.D	10/20/2017	15:19

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
 SDG No.: 200-40524-1
 Sample No.: ICIS 200-121645/8 Date Analyzed: 10/03/2017 13:14
 Instrument ID: CHD.i GC Column: DB-624 ID: 0.2 (mm)
 Lab File ID (Standard): 27205_08.D Heated Purge: (Y/N) N
 Calibration ID: 38139

	DFBZ		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	591711	5.95	482887	9.29	215316	12.11	
UPPER LIMIT	1183422	6.11	965774	9.46	430632	12.28	
LOWER LIMIT	295856	5.78	241444	9.13	107658	11.94	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-121645/12		602593	5.95	491268	9.29	218926	12.11

DFBZ = 1,4-Difluorobenzene
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.1667 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
 SDG No.: 200-40524-1
 Sample No.: CCVIS 200-122347/4 Date Analyzed: 10/20/2017 09:55
 Instrument ID: CHD.i GC Column: DB-624 ID: 0.2 (mm)
 Lab File ID (Standard): 27497_04.D Heated Purge: (Y/N) N
 Calibration ID: 38139

		DFBZ		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		634353	5.94	502501	9.29	225535	12.11
UPPER LIMIT		1268706	6.11	1005002	9.46	451070	12.28
LOWER LIMIT		317177	5.77	251251	9.13	112768	11.94
LAB SAMPLE ID		CLIENT SAMPLE ID					
MB 200-122347/5		610138	5.94	480013	9.29	210128	12.11
200-40524-1		AGMWP-W-39868	554204	5.94	445291	9.29	187188
200-40524-2		AGGW3-W-39871	589638	5.95	474737	9.29	206742
200-40524-1		AGMWP-W-39868	606061	5.95	484839	9.29	210330
200-40524-3		AGQCTB-W-39877	585845	5.95	477317	9.29	212443
200-40524-2		AGGW3-W-39871	559577	5.95	452568	9.29	198485
200-40524-4		VHBLK01	557956	5.95	445981	9.29	191332
CCVC 200-122347/15		564002	5.95	463506	9.29	215889	12.11

DFBZ = 1,4-Difluorobenzene
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.1667 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGMWP-W-39868</u>	Lab Sample ID: <u>200-40524-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_06.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 13:36</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 11:22</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	5.0	U	5.0	
75-15-0	Carbon disulfide	0.50	U	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0	U	5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	6.7		0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	260	E	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
108-88-3	Toluene	0.50	U	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
591-78-6	2-Hexanone	5.0	U	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGMWP-W-39868</u>	Lab Sample ID: <u>200-40524-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_06.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 13:36</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 11:22</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.50	U	0.50	
179601-23-1	m,p-Xylene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	85		40-130
19199-91-8	Chloroethane-d5	97		65-130
22280-73-5	1,1-Dichloroethene-d2	76		60-125
24313-50-6	2-Butanone-d5	132	*	40-130
865-49-6	Chloroform-d	99		70-125
17060-07-0	1,2-Dichloroethane-d4	101		70-130
1076-43-3	Benzene-d6	95		70-125
93952-08-0	1,2-Dichloropropane-d6	78		60-140
2037-26-5	Toluene-d8	95		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	92		55-130
4840-82-8	2-Hexanone-d5	127		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	93		65-120
2199-69-1	1,2-Dichlorobenzene-d4	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGMWP-W-39868</u>	Lab Sample ID: <u>200-40524-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_06.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 13:36</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 11:22</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGMWP-W-39868</u>	Lab Sample ID: <u>200-40524-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_06.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 13:36</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 11:22</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes				

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGMWP-W-39868</u>	Lab Sample ID: <u>200-40524-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_09.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 13:36</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 12:38</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>25</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	13	U	13	
74-87-3	Chloromethane	13	U	13	
75-01-4	Vinyl chloride	13	U	13	
74-83-9	Bromomethane	13	U	13	
75-00-3	Chloroethane	13	U	13	
75-69-4	Trichlorofluoromethane	13	U	13	
75-35-4	1,1-Dichloroethene	13	U	13	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U	13	
67-64-1	Acetone	130	U	130	
75-15-0	Carbon disulfide	13	U	13	
79-20-9	Methyl acetate	13	U	13	
75-09-2	Methylene Chloride	13	U	13	
156-60-5	trans-1,2-Dichloroethene	13	U	13	
1634-04-4	Methyl tert-butyl ether	13	U	13	
75-34-3	1,1-Dichloroethane	13	U	13	
156-59-2	cis-1,2-Dichloroethene	13	U	13	
78-93-3	2-Butanone	130	U	130	
74-97-5	Bromochloromethane	13	U	13	
67-66-3	Chloroform	6.7	J D	13	
71-55-6	1,1,1-Trichloroethane	13	U	13	
110-82-7	Cyclohexane	13	U	13	
56-23-5	Carbon tetrachloride	310	D	13	
71-43-2	Benzene	13	U	13	
107-06-2	1,2-Dichloroethane	13	U	13	
79-01-6	Trichloroethene	13	U	13	
108-87-2	Methylcyclohexane	13	U	13	
78-87-5	1,2-Dichloropropane	13	U	13	
75-27-4	Bromodichloromethane	13	U	13	
10061-01-5	cis-1,3-Dichloropropene	13	U	13	
108-10-1	4-Methyl-2-pentanone	130	U	130	
108-88-3	Toluene	13	U	13	
10061-02-6	trans-1,3-Dichloropropene	13	U	13	
79-00-5	1,1,2-Trichloroethane	13	U	13	
127-18-4	Tetrachloroethene	13	U	13	
591-78-6	2-Hexanone	130	U	130	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGMWP-W-39868</u>	Lab Sample ID: <u>200-40524-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_09.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 13:36</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 12:38</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>25</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	13	U	13	
106-93-4	1,2-Dibromoethane	13	U	13	
108-90-7	Chlorobenzene	13	U	13	
100-41-4	Ethylbenzene	13	U	13	
95-47-6	o-Xylene	13	U	13	
179601-23-1	m,p-Xylene	13	U	13	
100-42-5	Styrene	13	U	13	
75-25-2	Bromoform	13	U	13	
98-82-8	Isopropylbenzene	13	U	13	
79-34-5	1,1,2,2-Tetrachloroethane	13	U	13	
541-73-1	1,3-Dichlorobenzene	13	U	13	
106-46-7	1,4-Dichlorobenzene	13	U	13	
95-50-1	1,2-Dichlorobenzene	13	U	13	
96-12-8	1,2-Dibromo-3-chloropropane	13	U	13	
120-82-1	1,2,4-Trichlorobenzene	13	U	13	
87-61-6	1,2,3-Trichlorobenzene	13	U	13	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	76		40-130
19199-91-8	Chloroethane-d5	86		65-130
22280-73-5	1,1-Dichloroethene-d2	69		60-125
24313-50-6	2-Butanone-d5	122		40-130
865-49-6	Chloroform-d	90		70-125
17060-07-0	1,2-Dichloroethane-d4	98		70-130
1076-43-3	Benzene-d6	88		70-125
93952-08-0	1,2-Dichloropropane-d6	75		60-140
2037-26-5	Toluene-d8	90		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	86		55-130
4840-82-8	2-Hexanone-d5	116		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	90		65-120
2199-69-1	1,2-Dichlorobenzene-d4	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGMWP-W-39868</u>	Lab Sample ID: <u>200-40524-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_09.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 13:36</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 12:38</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>25</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGMWP-W-39868</u>	Lab Sample ID: <u>200-40524-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_09.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 13:36</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 12:38</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>25</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes				

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGGW3-W-39871</u>	Lab Sample ID: <u>200-40524-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_08.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 17:05</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 12:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	5.0	U	5.0	
75-15-0	Carbon disulfide	0.50	U	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0	U	5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	12		0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	420	E	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
108-88-3	Toluene	0.50	U	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
591-78-6	2-Hexanone	5.0	U	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGGW3-W-39871</u>	Lab Sample ID: <u>200-40524-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_08.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 17:05</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 12:13</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.50	U	0.50	
179601-23-1	m,p-Xylene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	78		40-130
19199-91-8	Chloroethane-d5	89		65-130
22280-73-5	1,1-Dichloroethene-d2	71		60-125
24313-50-6	2-Butanone-d5	126		40-130
865-49-6	Chloroform-d	102		70-125
17060-07-0	1,2-Dichloroethane-d4	98		70-130
1076-43-3	Benzene-d6	101		70-125
93952-08-0	1,2-Dichloropropane-d6	77		60-140
2037-26-5	Toluene-d8	93		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	91		55-130
4840-82-8	2-Hexanone-d5	124		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	92		65-120
2199-69-1	1,2-Dichlorobenzene-d4	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGGW3-W-39871</u>	Lab Sample ID: <u>200-40524-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_08.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 17:05</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 12:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGGW3-W-39871</u>	Lab Sample ID: <u>200-40524-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_08.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 17:05</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 12:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes				

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGGW3-W-39871</u>	Lab Sample ID: <u>200-40524-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_13.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 17:05</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 14:28</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>100</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	50	U	50	
74-87-3	Chloromethane	50	U	50	
75-01-4	Vinyl chloride	50	U	50	
74-83-9	Bromomethane	50	U	50	
75-00-3	Chloroethane	50	U	50	
75-69-4	Trichlorofluoromethane	50	U	50	
75-35-4	1,1-Dichloroethene	50	U	50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U	50	
67-64-1	Acetone	500	U	500	
75-15-0	Carbon disulfide	50	U	50	
79-20-9	Methyl acetate	50	U	50	
75-09-2	Methylene Chloride	50	U	50	
156-60-5	trans-1,2-Dichloroethene	50	U	50	
1634-04-4	Methyl tert-butyl ether	50	U	50	
75-34-3	1,1-Dichloroethane	50	U	50	
156-59-2	cis-1,2-Dichloroethene	50	U	50	
78-93-3	2-Butanone	500	U	500	
74-97-5	Bromochloromethane	50	U	50	
67-66-3	Chloroform	11	J D	50	
71-55-6	1,1,1-Trichloroethane	50	U	50	
110-82-7	Cyclohexane	50	U	50	
56-23-5	Carbon tetrachloride	840	D	50	
71-43-2	Benzene	50	U	50	
107-06-2	1,2-Dichloroethane	50	U	50	
79-01-6	Trichloroethene	50	U	50	
108-87-2	Methylcyclohexane	50	U	50	
78-87-5	1,2-Dichloropropane	50	U	50	
75-27-4	Bromodichloromethane	50	U	50	
10061-01-5	cis-1,3-Dichloropropene	50	U	50	
108-10-1	4-Methyl-2-pentanone	500	U	500	
108-88-3	Toluene	50	U	50	
10061-02-6	trans-1,3-Dichloropropene	50	U	50	
79-00-5	1,1,2-Trichloroethane	50	U	50	
127-18-4	Tetrachloroethene	50	U	50	
591-78-6	2-Hexanone	500	U	500	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGGW3-W-39871</u>	Lab Sample ID: <u>200-40524-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_13.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 17:05</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 14:28</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>100</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	50	U	50	
106-93-4	1,2-Dibromoethane	50	U	50	
108-90-7	Chlorobenzene	50	U	50	
100-41-4	Ethylbenzene	50	U	50	
95-47-6	o-Xylene	50	U	50	
179601-23-1	m,p-Xylene	50	U	50	
100-42-5	Styrene	50	U	50	
75-25-2	Bromoform	50	U	50	
98-82-8	Isopropylbenzene	50	U	50	
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50	
541-73-1	1,3-Dichlorobenzene	50	U	50	
106-46-7	1,4-Dichlorobenzene	50	U	50	
95-50-1	1,2-Dichlorobenzene	50	U	50	
96-12-8	1,2-Dibromo-3-chloropropane	50	U	50	
120-82-1	1,2,4-Trichlorobenzene	50	U	50	
87-61-6	1,2,3-Trichlorobenzene	50	U	50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	80		40-130
19199-91-8	Chloroethane-d5	92		65-130
22280-73-5	1,1-Dichloroethene-d2	72		60-125
24313-50-6	2-Butanone-d5	100		40-130
865-49-6	Chloroform-d	93		70-125
17060-07-0	1,2-Dichloroethane-d4	101		70-130
1076-43-3	Benzene-d6	90		70-125
93952-08-0	1,2-Dichloropropane-d6	76		60-140
2037-26-5	Toluene-d8	93		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	86		55-130
4840-82-8	2-Hexanone-d5	99		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	91		65-120
2199-69-1	1,2-Dichlorobenzene-d4	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGGW3-W-39871</u>	Lab Sample ID: <u>200-40524-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_13.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 17:05</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 14:28</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>100</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
SDG No.: 200-40524-1
Client Sample ID: AGGW3-W-39871 Lab Sample ID: 200-40524-2
Matrix: Water Lab File ID: 27497_13.D
Analysis Method: SOM02.2/VOA_Tr Date Collected: 10/17/2017 17:05
Sample wt/vol: 25 (mL) Date Analyzed: 10/20/2017 14:28
Soil Aliquot Vol: _____ Dilution Factor: 100
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.2 (mm)
% Moisture: _____ Level: (low/med) Trace
Analysis Batch No.: 122347 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
<i>STL00989</i>	<i>Total Alkanes</i>				

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGQCTB-W-39877</u>	Lab Sample ID: <u>200-40524-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_11.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 09:00</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 13:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	3.0	J B	5.0	
75-15-0	Carbon disulfide	0.50	U	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0	U	5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	0.15	J	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	0.50	U	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
108-88-3	Toluene	0.16	J	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
591-78-6	2-Hexanone	5.0	U	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGQCTB-W-39877</u>	Lab Sample ID: <u>200-40524-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_11.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 09:00</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 13:37</u>
Soil Aliquot Vol: <u></u>	Dilution Factor: <u>1</u>
Soil Extract Vol.: <u></u>	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: <u></u>	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.50	U	0.50	
179601-23-1	m,p-Xylene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	79		40-130
19199-91-8	Chloroethane-d5	88		65-130
22280-73-5	1,1-Dichloroethene-d2	70		60-125
24313-50-6	2-Butanone-d5	120		40-130
865-49-6	Chloroform-d	92		70-125
17060-07-0	1,2-Dichloroethane-d4	101		70-130
1076-43-3	Benzene-d6	90		70-125
93952-08-0	1,2-Dichloropropane-d6	75		60-140
2037-26-5	Toluene-d8	90		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	86		55-130
4840-82-8	2-Hexanone-d5	115		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	91		65-120
2199-69-1	1,2-Dichlorobenzene-d4	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>AGQCTB-W-39877</u>	Lab Sample ID: <u>200-40524-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_11.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/17/2017 09:00</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 13:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
SDG No.: 200-40524-1
Client Sample ID: AGQCTB-W-39877 Lab Sample ID: 200-40524-3
Matrix: Water Lab File ID: 27497_11.D
Analysis Method: SOM02.2/VOA_Tr Date Collected: 10/17/2017 09:00
Sample wt/vol: 25 (mL) Date Analyzed: 10/20/2017 13:37
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.2 (mm)
% Moisture: _____ Level: (low/med) Trace
Analysis Batch No.: 122347 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes				

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>VHBLK01</u>	Lab Sample ID: <u>200-40524-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_14.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/19/2017 00:00</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 14:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	1.3	J B	5.0	
75-15-0	Carbon disulfide	0.50	U	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0	U	5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	0.50	U	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
108-88-3	Toluene	0.50	U	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
591-78-6	2-Hexanone	5.0	U	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>VHBLK01</u>	Lab Sample ID: <u>200-40524-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_14.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/19/2017 00:00</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 14:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.50	U	0.50	
179601-23-1	m,p-Xylene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	81		40-130
19199-91-8	Chloroethane-d5	92		65-130
22280-73-5	1,1-Dichloroethene-d2	72		60-125
24313-50-6	2-Butanone-d5	102		40-130
865-49-6	Chloroform-d	93		70-125
17060-07-0	1,2-Dichloroethane-d4	102		70-130
1076-43-3	Benzene-d6	94		70-125
93952-08-0	1,2-Dichloropropane-d6	78		60-140
2037-26-5	Toluene-d8	94		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	88		55-130
4840-82-8	2-Hexanone-d5	98		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	91		65-120
2199-69-1	1,2-Dichlorobenzene-d4	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: <u>VHBLK01</u>	Lab Sample ID: <u>200-40524-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_14.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: <u>10/19/2017 00:00</u>
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 14:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
SDG No.: 200-40524-1
Client Sample ID: VHBLK01 Lab Sample ID: 200-40524-4
Matrix: Water Lab File ID: 27497_14.D
Analysis Method: SOM02.2/VOA_Tr Date Collected: 10/19/2017 00:00
Sample wt/vol: 25 (mL) Date Analyzed: 10/20/2017 14:53
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.2 (mm)
% Moisture: _____ Level: (low/med) Trace
Analysis Batch No.: 122347 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes				

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-40524-1

Analy Batch No.: 121645

SDG No.: 200-40524-1

Instrument ID: CHD.i

GC Column: DB-624

ID: 0.2 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2017 12:23

Calibration End Date: 10/03/2017 14:04

Calibration ID: 38139

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-121645/6	VSTD0.50X7	27205_06.D
Level 2	IC 200-121645/7	VSTD001X7	27205_07.D
Level 3	ICIS 200-121645/8	VSTD005X7	27205_08.D
Level 4	IC 200-121645/9	VSTD010X7	27205_09.D
Level 5	IC 200-121645/10	VSTD020X7	27205_10.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2991	0.3046	0.3215	0.2772	0.3056	Ave		0.3016			0.0100	5.3		30.0			
Chloromethane	0.4018	0.3931	0.3912	0.3268	0.3625	Ave		0.3751			0.0100	8.2		30.0			
Vinyl chloride	0.4040	0.4206	0.4334	0.3719	0.4042	Ave		0.4068			0.0100	5.7		30.0			
Bromomethane	0.1223	0.1333	0.1503	0.1342	0.1571	Ave		0.1394			0.0100	10.1		40.0			
Chloroethane	0.2650	0.2631	0.2671	0.2201	0.2290	Ave		0.2489			0.0100	9.0		30.0			
Trichlorofluoromethane	0.4865	0.5067	0.5437	0.4548	0.4978	Ave		0.4979			0.0100	6.5		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3177	0.3412	0.3584	0.2987	0.3203	Ave		0.3273			0.0100	7.0		30.0			
1,1-Dichloroethene	0.3361	0.3301	0.3405	0.2883	0.3043	Ave		0.3199			0.0200	7.0		30.0			
Acetone	0.0234	0.0185	0.0157	0.0128	0.0136	Ave		0.0168			0.0100	25.8		40.0			
Carbon disulfide	1.0585	1.0597	1.0804	0.9360	1.0424	Ave		1.0354			0.0100	5.5		20.0			
Methyl acetate	0.0516	0.0479	0.0506	0.0407	0.0446	Ave		0.0471			0.0100	9.5		40.0			
Methylene Chloride	0.2802	0.2791	0.2780	0.2365	0.2635	Ave		0.2675			0.0100	6.9		40.0			
Methyl tert-butyl ether	0.4198	0.4231	0.4393	0.3765	0.4185	Ave		0.4154			0.0100	5.6		30.0			
trans-1,2-Dichloroethene	0.3565	0.3573	0.3667	0.3164	0.3526	Ave		0.3499			0.0700	5.6		20.0			
1,1-Dichloroethane	0.6235	0.6441	0.6602	0.5603	0.6241	Ave		0.6224			0.1000	6.1		20.0			
cis-1,2-Dichloroethene	0.3503	0.3520	0.3619	0.3121	0.3459	Ave		0.3445			0.1000	5.5		20.0			
2-Butanone	0.0277	0.0288	0.0300	0.0252	0.0277	Ave		0.0279			0.0100	6.3		40.0			
Bromochloromethane	0.0951	0.0983	0.0992	0.0844	0.0956	Ave		0.0945			0.0200	6.3		20.0			
Chloroform	0.5585	0.5665	0.5748	0.4921	0.5432	Ave		0.5470			0.0400	6.0		20.0			
1,1,1-Trichloroethane	0.7077	0.7167	0.7548	0.6392	0.7010	Ave		0.7039			0.0500	5.9		30.0			
Cyclohexane	0.8073	0.8715	0.8865	0.7424	0.8125	Ave		0.8241			0.1000	7.0		30.0			
Carbon tetrachloride	0.6139	0.6361	0.6599	0.5613	0.6138	Ave		0.6170			0.0200	5.9		20.0			
Benzene	1.8125	1.8670	1.9110	1.6202	1.7857	Ave		1.7993			0.3000	6.2		20.0			
1,2-Dichloroethane	0.2364	0.2310	0.2447	0.2052	0.2287	Ave		0.2292			0.0100	6.4		20.0			
Trichloroethene	0.4612	0.4625	0.4752	0.4046	0.4500	Ave		0.4507			0.1000	6.0		20.0			
Methylcyclohexane	0.6037	0.6569	0.7074	0.5982	0.6549	Ave		0.6442			0.2000	7.0		30.0			
1,2-Dichloropropane	0.3643	0.3679	0.3697	0.3171	0.3464	Ave		0.3531			0.1000	6.3		20.0			
Bromodichloromethane	0.3969	0.4097	0.4175	0.3540	0.3984	Ave		0.3953			0.0900	6.2		20.0			
cis-1,3-Dichloropropene	0.5104	0.5166	0.5424	0.4628	0.5135	Ave		0.5092			0.1000	5.7		20.0			
4-Methyl-2-pentanone	0.0828	0.0875	0.0900	0.0749	0.0831	Ave		0.0837			0.0100	6.9		30.0			
Toluene	1.8902	1.9662	2.0187	1.7163	1.8846	Ave		1.8952			0.4000	6.0		20.0			
trans-1,3-Dichloropropene	0.3431	0.3522	0.3654	0.3129	0.3499	Ave		0.3447			0.0100	5.7		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-40524-1 Analy Batch No.: 121645
SDG No.: 200-40524-1
Instrument ID: CHD.i GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/03/2017 12:23 Calibration End Date: 10/03/2017 14:04 Calibration ID: 38139

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloroethane	0.1742	0.1656	0.1661	0.1405	0.1564	Ave		0.1606			0.0400	8.0		20.0			
Tetrachloroethene	0.3958	0.4273	0.4489	0.3840	0.4230	Ave		0.4158			0.1000	6.2		20.0			
2-Hexanone	0.0472	0.0507	0.0583	0.0489	0.0539	Ave		0.0518			0.0100	8.4		40.0			
Dibromochloromethane	0.2010	0.2022	0.2131	0.1830	0.2047	Ave		0.2008			0.0500	5.5		20.0			
1,2-Dibromoethane	0.1349	0.1408	0.1420	0.1221	0.1378	Ave		0.1355			0.0100	5.9		20.0			
Chlorobenzene	1.0341	1.0760	1.1127	0.9456	1.0560	Ave		1.0449			0.4000	6.0		20.0			
Ethylbenzene	2.1745	2.2584	2.3891	2.0291	2.2519	Ave		2.2206			0.5000	5.9		20.0			
m,p-Xylene	0.8303	0.8663	0.9115	0.7741	0.8615	Ave		0.8487			0.2000	6.0		20.0			
o-Xylene	0.7531	0.7791	0.8218	0.7007	0.7786	Ave		0.7667			0.3000	5.8		30.0			
Styrene	1.0785	1.1303	1.2180	1.0431	1.1663	Ave		1.1273			0.2000	6.2		30.0			
Bromoform	0.2038	0.2313	0.2383	0.2097	0.2401	Ave		0.2246			0.0100	7.5		30.0			
Isopropylbenzene	2.1964	2.3223	2.4291	2.0627	2.2863	Ave		2.2594			0.7000	6.1		30.0			
1,1,2,2-Tetrachloroethane	0.1441	0.1468	0.1491	0.1258	0.1437	Ave		0.1419			0.0500	6.5		20.0			
1,3-Dichlorobenzene	1.5828	1.7065	1.8293	1.5674	1.7640	Ave		1.6900			0.5000	6.7		20.0			
1,4-Dichlorobenzene	1.5655	1.7356	1.7486	1.4996	1.6749	Ave		1.6448			0.7000	6.6		20.0			
1,2-Dichlorobenzene	1.2509	1.3068	1.3585	1.1555	1.2817	Ave		1.2707			0.4000	5.9		20.0			
1,2-Dibromo-3-chloropropane	0.0336	0.0401	0.0434	0.0370	0.0423	Ave		0.0393			0.0100	10.2		40.0			
1,2,4-Trichlorobenzene	0.4614	0.4564	0.5476	0.4862	0.5447	Ave		0.4993			0.3000	8.9		30.0			
1,2,3-Trichlorobenzene	0.1226	0.1250	0.1543	0.1407	0.1533	Ave		0.1392		*	0.2000	10.8		30.0			
Vinyl chloride-d3	0.4187	0.4090	0.4167	0.3544	0.3862	Ave		0.3970			0.0100	6.8		30.0			
Chloroethane-d5	0.2803	0.3061	0.3087	0.2517	0.2626	Ave		0.2819			0.0100	9.0		30.0			
1,1-Dichloroethene-d2	0.6622	0.6525	0.6790	0.5675	0.5953	Ave		0.6313			0.0100	7.5		30.0			
2-Butanone-d5	0.0249	0.0246	0.0249	0.0210	0.0233	Ave		0.0238			0.0100	7.2		40.0			
Chloroform-d	0.5409	0.5599	0.5704	0.4879	0.5414	Ave		0.5401			0.0100	5.9		20.0			
1,2-Dichloroethane-d4	0.1857	0.1840	0.1800	0.1539	0.1710	Ave		0.1749			0.0100	7.5		20.0			
Benzene-d6	1.6343	1.6681	1.7064	1.4371	1.5934	Ave		1.6079			0.0300	6.5		20.0			
1,2-Dichloropropane-d6	0.4656	0.4596	0.4651	0.3943	0.4371	Ave		0.4444			0.1000	6.8		20.0			
Toluene-d8	1.4803	1.5380	1.5827	1.3401	1.4797	Ave		1.4841			0.2000	6.2		20.0			
trans-1,3-Dichloropropene-d4	0.3254	0.3075	0.3050	0.2592	0.2913	Ave		0.2977			0.0100	8.3		30.0			
2-Hexanone-d5	0.0271	0.0277	0.0293	0.0253	0.0286	Ave		0.0276			0.0100	5.5		40.0			
1,1,2,2-Tetrachloroethane-d2	0.1346	0.1351	0.1400	0.1191	0.1365	Ave		0.1331			0.0100	6.1		20.0			
1,2-Dichlorobenzene-d4	0.8236	0.7636	0.8052	0.6892	0.7668	Ave		0.7697			0.0600	6.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-40524-1 Analy Batch No.: 121645

SDG No.: 200-40524-1

Instrument ID: CHD.i GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2017 12:23 Calibration End Date: 10/03/2017 14:04 Calibration ID: 38139

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-121645/6	27205_06.D
Level 2	IC 200-121645/7	27205_07.D
Level 3	ICIS 200-121645/8	27205_08.D
Level 4	IC 200-121645/9	27205_09.D
Level 5	IC 200-121645/10	27205_10.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	DFBZ	Ave	18419	36906	190224	382629	756485	12.5	25.0	125	250	500
Chloromethane	DFBZ	Ave	24748	47637	231482	451027	897344	12.5	25.0	125	250	500
Vinyl chloride	DFBZ	Ave	24882	50967	256437	513214	1000370	12.5	25.0	125	250	500
Bromomethane	DFBZ	Ave	7533	16148	88937	185244	388951	12.5	25.0	125	250	500
Chloroethane	DFBZ	Ave	16322	31879	158051	303729	566917	12.5	25.0	125	250	500
Trichlorofluoromethane	DFBZ	Ave	29964	61407	321737	627638	1232160	12.5	25.0	125	250	500
1,1,2-Trichloro-1,2,2-trifluoroethane	DFBZ	Ave	19565	41350	212051	412233	792819	12.5	25.0	125	250	500
1,1-Dichloroethene	DFBZ	Ave	20699	40003	201460	397956	753170	12.5	25.0	125	250	500
Acetone	DFBZ	Ave	14423	22460	92612	176077	335997	125	250	1250	2499	4998
Carbon disulfide	DFBZ	Ave	65186	128412	639256	1291793	2580120	12.5	25.0	125	250	500
Methyl acetate	DFBZ	Ave	3177	5799	29961	56223	110506	12.5	25.0	125	250	500
Methylene Chloride	DFBZ	Ave	17256	33824	164524	326469	652264	12.5	25.0	125	250	500
Methyl tert-butyl ether	DFBZ	Ave	25855	51269	259932	519564	1035937	12.5	25.0	125	250	500
trans-1,2-Dichloroethene	DFBZ	Ave	21953	43294	217005	436681	872863	12.5	25.0	125	250	500
1,1-Dichloroethane	DFBZ	Ave	38401	78048	390641	773234	1544772	12.5	25.0	125	250	500
cis-1,2-Dichloroethene	DFBZ	Ave	21576	42660	214164	430808	856058	12.5	25.0	125	250	500
2-Butanone	DFBZ	Ave	17058	34920	177378	348217	686068	125	250	1250	2499	4998
Bromochloromethane	DFBZ	Ave	5856	11914	58726	116508	236630	12.5	25.0	125	250	500
Chloroform	DFBZ	Ave	34396	68645	340097	679178	1344620	12.5	25.0	125	250	500
1,1,1-Trichloroethane	CBNZd	Ave	35555	70940	364484	725285	1438949	12.5	25.0	125	250	500
Cyclohexane	CBNZd	Ave	40558	86272	428096	842392	1667781	12.5	25.0	125	250	500
Carbon tetrachloride	CBNZd	Ave	30842	62970	318659	636910	1259923	12.5	25.0	125	250	500
Benzene	CBNZd	Ave	91058	184815	922798	1838360	3665416	12.5	25.0	125	250	500
1,2-Dichloroethane	DFBZ	Ave	14558	27991	144791	283237	566143	12.5	25.0	125	250	500
Trichloroethene	CBNZd	Ave	23172	45781	229450	459083	923710	12.5	25.0	125	250	500
Methylcyclohexane	CBNZd	Ave	30328	65022	341613	678695	1344377	12.5	25.0	125	250	500
1,2-Dichloropropane	CBNZd	Ave	18301	36414	178538	359780	711135	12.5	25.0	125	250	500
Bromodichloromethane	CBNZd	Ave	19940	40557	201589	401659	817723	12.5	25.0	125	250	500
cis-1,3-Dichloropropene	CBNZd	Ave	25640	51142	261936	525155	1054026	12.5	25.0	125	250	500
4-Methyl-2-pentanone	CBNZd	Ave	41612	86663	434660	849642	1705883	125	250	1250	2499	4998
Toluene	CBNZd	Ave	94961	194631	974798	1947399	3868619	12.5	25.0	125	250	500
trans-1,3-Dichloropropene	CBNZd	Ave	17239	34865	176438	354975	718167	12.5	25.0	125	250	500
1,1,2-Trichloroethane	CBNZd	Ave	8752	16392	80225	159441	321087	12.5	25.0	125	250	500

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-40524-1 Analy Batch No.: 121645

SDG No.: 200-40524-1

Instrument ID: CHD.i GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2017 12:23 Calibration End Date: 10/03/2017 14:04 Calibration ID: 38139

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Tetrachloroethene	CBNZd	Ave	19882	42295	216784	435686	868251	12.5	25.0	125	250	500
2-Hexanone	CBNZd	Ave	23726	50192	281301	555002	1107102	125	250	1250	2499	4998
Dibromochloromethane	CBNZd	Ave	10098	20020	102924	207695	420160	12.5	25.0	125	250	500
1,2-Dibromoethane	CBNZd	Ave	6778	13940	68553	138532	282811	12.5	25.0	125	250	500
Chlorobenzene	CBNZd	Ave	51954	106513	537330	1072937	2167737	12.5	25.0	125	250	500
Ethylbenzene	CBNZd	Ave	109241	223554	1153682	2302263	4622482	12.5	25.0	125	250	500
m,p-Xylene	CBNZd	Ave	41714	85749	440166	878337	1768458	12.5	25.0	125	250	500
o-Xylene	CBNZd	Ave	37835	77124	396850	795096	1598149	12.5	25.0	125	250	500
Styrene	CBNZd	Ave	54183	111885	588173	1183602	2394066	12.5	25.0	125	250	500
Bromoform	DCBd4	Ave	4471	9882	51304	105292	219556	12.5	25.0	125	250	500
Isopropylbenzene	CBNZd	Ave	110344	229880	1172989	2340488	4692991	12.5	25.0	125	250	500
1,1,2,2-Tetrachloroethane	CBNZd	Ave	7237	14532	72008	142787	294980	12.5	25.0	125	250	500
1,3-Dichlorobenzene	DCBd4	Ave	34720	72913	393867	786813	1613226	12.5	25.0	125	250	500
1,4-Dichlorobenzene	DCBd4	Ave	34341	74156	376495	752780	1531725	12.5	25.0	125	250	500
1,2-Dichlorobenzene	DCBd4	Ave	27439	55832	292499	580061	1172195	12.5	25.0	125	250	500
1,2-Dibromo-3-chloropropane	DCBd4	Ave	736	1713	9343	18584	38695	12.5	25.0	125	250	500
1,2,4-Trichlorobenzene	DCBd4	Ave	10121	19502	117903	244051	498118	12.5	25.0	125	250	500
1,2,3-Trichlorobenzene	DCBd4	Ave	2690	5341	33227	70649	140218	12.5	25.0	125	250	500
Vinyl chloride-d3	DFBZ	Ave	25785	49559	246549	489157	956010	12.5	25.0	125	250	500
Chloroethane-d5	DFBZ	Ave	17262	37097	182686	347397	649929	12.5	25.0	125	250	500
1,1-Dichloroethene-d2	DFBZ	Ave	40784	79064	401791	783185	1473467	12.5	25.0	125	250	500
2-Butanone-d5	DFBZ	Ave	15363	29859	147477	289271	576536	125	250	1250	2499	4998
Chloroform-d	DFBZ	Ave	33310	67845	337504	673302	1340144	12.5	25.0	125	250	500
1,2-Dichloroethane-d4	DFBZ	Ave	11437	22300	106531	212354	423320	12.5	25.0	125	250	500
Benzene-d6	CBNZd	Ave	82103	165120	824018	1630622	3270702	12.5	25.0	125	250	500
1,2-Dichloropropane-d6	CBNZd	Ave	23391	45497	224601	447437	897228	12.5	25.0	125	250	500
Toluene-d8	CBNZd	Ave	74366	152240	764263	1520526	3037350	12.5	25.0	125	250	500
trans-1,3-Dichloropropene-d4	CBNZd	Ave	16347	30440	147265	294060	597963	12.5	25.0	125	250	500
2-Hexanone-d5	CBNZd	Ave	13616	27445	141715	287561	586365	125	250	1250	2499	4998
1,1,2,2-Tetrachloroethane-d2	CBNZd	Ave	6764	13373	67595	135128	280141	12.5	25.0	125	250	500
1,2-Dichlorobenzene-d4	DCBd4	Ave	18067	32623	173374	345958	701242	12.5	25.0	125	250	500

Curve Type Legend:

Ave = Average ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40524-1

SDG No.: 200-40524-1

Lab Sample ID: ICV 200-121645/12 Calibration Date: 10/03/2017 14:55

Instrument ID: CHD.i Calib Start Date: 10/03/2017 12:23

GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 10/03/2017 14:04

Lab File ID: 27205_12.D Conc. Units: ug/L Heated Purge: (Y/N) N

EPA Sample No.: VSTD005X8

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3016	0.2587	0.0100	4.30	5.00	-14.2	40.0
Chloromethane	Ave	0.3751	0.3696	0.0100	4.90	5.00	-1.5	30.0
Vinyl chloride	Ave	0.4068	0.4281	0.0100	5.30	5.00	5.2	30.0
Bromomethane	Ave	0.1394	0.1518	0.0100	5.40	5.00	8.9	30.0
Chloroethane	Ave	0.2489	0.2608	0.0100	5.20	5.00	4.8	30.0
Trichlorofluoromethane	Ave	0.4979	0.5419	0.0100	5.40	5.00	8.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3273	0.3271	0.0100	5.00	5.00	-0.0	30.0
1,1-Dichloroethene	Ave	0.3199	0.3275	0.0200	5.10	5.00	2.4	20.0
Acetone	Ave	0.0168	0.0150	0.0100	45.0	50.1	-10.6	40.0
Carbon disulfide	Ave	1.035	0.9000	0.0100	4.30	5.00	-13.1	25.0
Methyl acetate	Ave	0.0471	0.0443	0.0100	4.70	5.00	-6.0	40.0
Methylene Chloride	Ave	0.2675	0.2669	0.0100	5.00	5.00	-0.2	30.0
Methyl tert-butyl ether	Ave	0.4154	0.4254	0.0100	5.10	5.00	2.4	30.0
trans-1,2-Dichloroethene	Ave	0.3499	0.3519	0.0700	5.00	5.00	0.6	20.0
1,1-Dichloroethane	Ave	0.6224	0.6409	0.1000	5.10	5.00	3.0	20.0
cis-1,2-Dichloroethene	Ave	0.3445	0.3546	0.1000	5.10	5.00	3.0	20.0
2-Butanone	Ave	0.0279	0.0277	0.0100	50.0	50.2	-0.6	40.0
Bromochloromethane	Ave	0.0945	0.0968	0.0200	5.10	5.00	2.4	20.0
Chloroform	Ave	0.5470	0.5638	0.0400	5.20	5.00	3.1	20.0
1,1,1-Trichloroethane	Ave	0.7039	0.7406	0.0500	5.30	5.00	5.2	20.0
Cyclohexane	Ave	0.8241	0.8343	0.1000	5.10	5.00	1.2	25.0
Carbon tetrachloride	Ave	0.6170	0.6519	0.0200	5.30	5.00	5.6	25.0
Benzene	Ave	1.799	1.847	0.3000	5.10	5.00	2.7	20.0
1,2-Dichloroethane	Ave	0.2292	0.2446	0.0100	5.30	5.00	6.7	25.0
Trichloroethene	Ave	0.4507	0.4630	0.1000	5.10	5.00	2.7	20.0
Methylcyclohexane	Ave	0.6442	0.6707	0.2000	5.20	5.00	4.1	25.0
1,2-Dichloropropane	Ave	0.3531	0.3583	0.1000	5.10	5.00	1.5	20.0
Bromodichloromethane	Ave	0.3953	0.4112	0.0900	5.20	5.00	4.0	20.0
cis-1,3-Dichloropropene	Ave	0.5092	0.5315	0.1000	5.20	5.00	4.4	20.0
4-Methyl-2-pentanone	Ave	0.0837	0.0867	0.0100	52.0	50.4	3.6	30.0
Toluene	Ave	1.895	2.007	0.4000	5.30	5.00	5.9	20.0
trans-1,3-Dichloropropene	Ave	0.3447	0.3536	0.0100	5.10	5.00	2.6	20.0
1,1,2-Trichloroethane	Ave	0.1606	0.1640	0.0400	5.10	5.00	2.1	20.0
Tetrachloroethene	Ave	0.4158	0.4413	0.1000	5.30	5.00	6.1	20.0
2-Hexanone	Ave	0.0518	0.0554	0.0100	54.0	50.2	6.9	40.0
Dibromochloromethane	Ave	0.2008	0.2095	0.0500	5.20	5.00	4.3	20.0
1,2-Dibromoethane	Ave	0.1355	0.1431	0.0100	5.30	5.00	5.6	20.0
Chlorobenzene	Ave	1.045	1.096	0.4000	5.20	5.00	4.9	20.0
Ethylbenzene	Ave	2.221	2.366	0.5000	5.30	5.00	6.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
 SDG No.: 200-40524-1
 Lab Sample ID: ICV 200-121645/12 Calibration Date: 10/03/2017 14:55
 Instrument ID: CHD.i Calib Start Date: 10/03/2017 12:23
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 10/03/2017 14:04
 Lab File ID: 27205_12.D Conc. Units: ug/L Heated Purge: (Y/N) N
 EPA Sample No.: VSTD005X8

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
m,p-Xylene	Ave	0.8487	0.9013	0.2000	5.30	5.00	6.2	20.0
o-Xylene	Ave	0.7667	0.8214	0.3000	5.40	5.00	7.1	20.0
Styrene	Ave	1.127	1.217	0.2000	5.40	5.00	8.0	20.0
Bromoform	Ave	0.2246	0.2307	0.0100	5.10	5.00	2.7	30.0
Isopropylbenzene	Ave	2.259	2.395	0.7000	5.30	5.00	6.0	25.0
1,1,2,2-Tetrachloroethane	Ave	0.1419	0.1437	0.0500	5.10	5.00	1.3	25.0
1,3-Dichlorobenzene	Ave	1.690	1.777	0.5000	5.30	5.00	5.2	20.0
1,4-Dichlorobenzene	Ave	1.645	1.700	0.7000	5.20	5.00	3.4	20.0
1,2-Dichlorobenzene	Ave	1.271	1.325	0.4000	5.20	5.00	4.3	20.0
1,2-Dibromo-3-chloropropane	Ave	0.0393	0.0409	0.0100	5.20	5.00	4.1	40.0
1,2,4-Trichlorobenzene	Ave	0.4993	0.5557	0.3000	5.60	5.00	11.3	30.0
1,2,3-Trichlorobenzene	Ave	0.1392	0.1663*	0.2000	6.00	5.00	19.4	40.0
Vinyl chloride-d3	Ave	0.3970	0.3707	0.0100	4.70	5.00	-6.6	30.0
Chloroethane-d5	Ave	0.2819	0.2640	0.0100	4.70	5.00	-6.4	30.0
1,1-Dichloroethene-d2	Ave	0.6313	0.6702	0.0100	5.30	5.00	6.2	25.0
2-Butanone-d5	Ave	0.0238	0.0273	0.0100	58.0	50.0	15.1	40.0
Chloroform-d	Ave	0.5401	0.5583	0.0100	5.20	5.00	3.4	20.0
1,2-Dichloroethane-d4	Ave	0.1749	0.1761	0.0100	5.00	5.00	0.7	25.0
Benzene-d6	Ave	1.608	1.628	0.0300	5.10	5.00	1.3	20.0
1,2-Dichloropropane-d6	Ave	0.4444	0.4438	0.1000	5.00	5.00	-0.1	20.0
Toluene-d8	Ave	1.484	1.513	0.2000	5.10	5.00	2.0	20.0
trans-1,3-Dichloropropene-d4	Ave	0.2977	0.2918	0.0100	4.90	5.00	-2.0	25.0
2-Hexanone-d5	Ave	0.0276	0.0324	0.0100	59.0	50.0	17.3	40.0
1,1,2,2-Tetrachloroethane-d2	Ave	0.1331	0.1322	0.0100	5.00	5.00	-0.6	25.0
1,2-Dichlorobenzene-d4	Ave	0.7697	0.7748	0.0600	5.00	5.00	0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
 SDG No.: 200-40524-1
 Lab Sample ID: CCVIS 200-122347/4 Calibration Date: 10/20/2017 09:55
 Instrument ID: CHD.i Calib Start Date: 10/03/2017 12:23
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 10/03/2017 14:04
 Lab File ID: 27497_04.D Conc. Units: ug/L Heated Purge: (Y/N) N
 EPA Sample No.: VSTD005V6

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3016	0.2711	0.0100	4.50	5.00	-10.1	40.0
Chloromethane	Ave	0.3751	0.3341	0.0100	4.50	5.00	-10.9	30.0
Vinyl chloride	Ave	0.4068	0.3879	0.0100	4.80	5.00	-4.6	30.0
Bromomethane	Ave	0.1394	0.1446	0.0100	5.20	5.00	3.7	30.0
Chloroethane	Ave	0.2489	0.2403	0.0100	4.80	5.00	-3.4	30.0
Trichlorofluoromethane	Ave	0.4979	0.5172	0.0100	5.20	5.00	3.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3273	0.3376	0.0100	5.20	5.00	3.2	30.0
1,1-Dichloroethene	Ave	0.3199	0.3081	0.0200	4.80	5.00	-3.7	20.0
Acetone	Ave	0.0168	0.0127	0.0100	38.0	50.0	-24.3	40.0
Carbon disulfide	Ave	1.035	0.9338	0.0100	4.50	5.00	-9.8	25.0
Methyl acetate	Ave	0.0471	0.0417	0.0100	4.40	5.00	-11.5	40.0
Methylene Chloride	Ave	0.2675	0.2351	0.0100	4.40	5.00	-12.1	30.0
Methyl tert-butyl ether	Ave	0.4154	0.3638	0.0100	4.40	5.00	-12.4	30.0
trans-1,2-Dichloroethene	Ave	0.3499	0.3112	0.0700	4.40	5.00	-11.1	20.0
1,1-Dichloroethane	Ave	0.6224	0.5426	0.1000	4.40	5.00	-12.8	20.0
cis-1,2-Dichloroethene	Ave	0.3445	0.3040	0.1000	4.40	5.00	-11.8	20.0
2-Butanone	Ave	0.0279	0.0240	0.0100	43.0	50.0	-14.0	40.0
Bromochloromethane	Ave	0.0945	0.0865	0.0200	4.60	5.00	-8.5	20.0
Chloroform	Ave	0.5470	0.5005	0.0400	4.60	5.00	-8.5	20.0
1,1,1-Trichloroethane	Ave	0.7039	0.6876	0.0500	4.90	5.00	-2.3	20.0
Cyclohexane	Ave	0.8241	0.7382	0.1000	4.50	5.00	-10.4	25.0
Carbon tetrachloride	Ave	0.6170	0.6092	0.0200	4.90	5.00	-1.3	25.0
Benzene	Ave	1.799	1.641	0.3000	4.60	5.00	-8.8	20.0
1,2-Dichloroethane	Ave	0.2292	0.2088	0.0100	4.60	5.00	-8.9	25.0
Trichloroethene	Ave	0.4507	0.4156	0.1000	4.60	5.00	-7.8	20.0
Methylcyclohexane	Ave	0.6442	0.6058	0.2000	4.70	5.00	-6.0	25.0
1,2-Dichloropropane	Ave	0.3531	0.3075	0.1000	4.40	5.00	-12.9	20.0
Bromodichloromethane	Ave	0.3953	0.3697	0.0900	4.70	5.00	-6.5	20.0
cis-1,3-Dichloropropene	Ave	0.5092	0.4616	0.1000	4.50	5.00	-9.3	20.0
4-Methyl-2-pentanone	Ave	0.0837	0.0781	0.0100	47.0	50.0	-6.6	30.0
Toluene	Ave	1.895	1.766	0.4000	4.70	5.00	-6.8	20.0
trans-1,3-Dichloropropene	Ave	0.3447	0.3148	0.0100	4.60	5.00	-8.7	20.0
1,1,2-Trichloroethane	Ave	0.1606	0.1435	0.0400	4.50	5.00	-10.6	20.0
Tetrachloroethene	Ave	0.4158	0.4044	0.1000	4.90	5.00	-2.7	20.0
2-Hexanone	Ave	0.0518	0.0492	0.0100	47.0	50.0	-5.1	40.0
Dibromochloromethane	Ave	0.2008	0.1910	0.0500	4.80	5.00	-4.9	20.0
1,2-Dibromoethane	Ave	0.1355	0.1258	0.0100	4.60	5.00	-7.2	20.0
Chlorobenzene	Ave	1.045	0.9765	0.4000	4.70	5.00	-6.6	20.0
Ethylbenzene	Ave	2.221	2.074	0.5000	4.70	5.00	-6.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
 SDG No.: 200-40524-1
 Lab Sample ID: CCVIS 200-122347/4 Calibration Date: 10/20/2017 09:55
 Instrument ID: CHD.i Calib Start Date: 10/03/2017 12:23
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 10/03/2017 14:04
 Lab File ID: 27497_04.D Conc. Units: ug/L Heated Purge: (Y/N) N
 EPA Sample No.: VSTD005V6

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
m,p-Xylene	Ave	0.8487	0.7905	0.2000	4.70	5.00	-6.9	20.0
o-Xylene	Ave	0.7667	0.7212	0.3000	4.70	5.00	-5.9	20.0
Styrene	Ave	1.127	1.063	0.2000	4.70	5.00	-5.7	20.0
Bromoform	Ave	0.2246	0.2092	0.0100	4.70	5.00	-6.9	30.0
Isopropylbenzene	Ave	2.259	2.137	0.7000	4.70	5.00	-5.4	25.0
1,1,2,2-Tetrachloroethane	Ave	0.1419	0.1286	0.0500	4.50	5.00	-9.4	25.0
1,3-Dichlorobenzene	Ave	1.690	1.592	0.5000	4.70	5.00	-5.8	20.0
1,4-Dichlorobenzene	Ave	1.645	1.594	0.7000	4.80	5.00	-3.1	20.0
1,2-Dichlorobenzene	Ave	1.271	1.195	0.4000	4.70	5.00	-5.9	20.0
1,2-Dibromo-3-chloropropane	Ave	0.0393	0.0335	0.0100	4.30	5.00	-14.7	40.0
1,2,4-Trichlorobenzene	Ave	0.4993	0.5135	0.3000	5.10	5.00	2.8	30.0
1,2,3-Trichlorobenzene	Ave	0.1392	0.1572*	0.2000	5.60	5.00	12.9	40.0
Vinyl chloride-d3	Ave	0.3970	0.3709	0.0100	4.70	5.00	-6.6	30.0
Chloroethane-d5	Ave	0.2819	0.2788	0.0100	4.90	5.00	-1.1	30.0
1,1-Dichloroethene-d2	Ave	0.6313	0.5951	0.0100	4.70	5.00	-5.7	25.0
2-Butanone-d5	Ave	0.0238	0.0200	0.0100	42.0	50.0	-15.8	40.0
Chloroform-d	Ave	0.5401	0.5002	0.0100	4.60	5.00	-7.4	20.0
1,2-Dichloroethane-d4	Ave	0.1749	0.1599	0.0100	4.60	5.00	-8.6	25.0
Benzene-d6	Ave	1.608	1.477	0.0300	4.60	5.00	-8.2	20.0
1,2-Dichloropropane-d6	Ave	0.4444	0.3979	0.1000	4.50	5.00	-10.5	20.0
Toluene-d8	Ave	1.484	1.373	0.2000	4.60	5.00	-7.5	20.0
trans-1,3-Dichloropropene-d4	Ave	0.2977	0.2634	0.0100	4.40	5.00	-11.5	25.0
2-Hexanone-d5	Ave	0.0276	0.0238	0.0100	43.0	50.0	-13.9	40.0
1,1,2,2-Tetrachloroethane-d2	Ave	0.1331	0.1181	0.0100	4.40	5.00	-11.2	25.0
1,2-Dichlorobenzene-d4	Ave	0.7697	0.7133	0.0600	4.60	5.00	-7.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
 SDG No.: 200-40524-1
 Lab Sample ID: CCVC 200-122347/15 Calibration Date: 10/20/2017 15:19
 Instrument ID: CHD.i Calib Start Date: 10/03/2017 12:23
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 10/03/2017 14:04
 Lab File ID: 27497_15.D Conc. Units: ug/L Heated Purge: (Y/N) N
 EPA Sample No.: VSTD005V7

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3016	0.2642	0.0100	4.40	5.00	-12.4	50.0
Chloromethane	Ave	0.3751	0.3492	0.0100	4.70	5.00	-6.9	50.0
Vinyl chloride	Ave	0.4068	0.3986	0.0100	4.90	5.00	-2.0	50.0
Bromomethane	Ave	0.1394	0.1392	0.0100	5.00	5.00	-0.2	50.0
Chloroethane	Ave	0.2489	0.2496	0.0100	5.00	5.00	0.3	50.0
Trichlorofluoromethane	Ave	0.4979	0.5469	0.0100	5.50	5.00	9.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3273	0.3569	0.0100	5.50	5.00	9.1	50.0
1,1-Dichloroethene	Ave	0.3199	0.3268	0.0200	5.10	5.00	2.2	25.0
Acetone	Ave	0.0168	0.0137	0.0100	41.0	50.0	-18.5	50.0
Carbon disulfide	Ave	1.035	0.9422	0.0100	4.50	5.00	-9.0	25.0
Methyl acetate	Ave	0.0471	0.0437	0.0100	4.60	5.00	-7.3	50.0
Methylene Chloride	Ave	0.2675	0.2487	0.0100	4.60	5.00	-7.0	50.0
Methyl tert-butyl ether	Ave	0.4154	0.3815	0.0100	4.60	5.00	-8.2	50.0
trans-1,2-Dichloroethene	Ave	0.3499	0.3249	0.0700	4.60	5.00	-7.1	25.0
1,1-Dichloroethane	Ave	0.6224	0.5677	0.1000	4.60	5.00	-8.8	25.0
cis-1,2-Dichloroethene	Ave	0.3445	0.3200	0.1000	4.60	5.00	-7.1	25.0
2-Butanone	Ave	0.0279	0.0263	0.0100	47.0	50.0	-5.7	50.0
Bromochloromethane	Ave	0.0945	0.0919	0.0200	4.90	5.00	-2.8	25.0
Chloroform	Ave	0.5470	0.5332	0.0400	4.90	5.00	-2.5	25.0
1,1,1-Trichloroethane	Ave	0.7039	0.6936	0.0500	4.90	5.00	-1.5	25.0
Cyclohexane	Ave	0.8241	0.7167	0.1000	4.30	5.00	-13.0	50.0
Carbon tetrachloride	Ave	0.6170	0.6216	0.0200	5.00	5.00	0.7	50.0
Benzene	Ave	1.799	1.664	0.3000	4.60	5.00	-7.5	25.0
1,2-Dichloroethane	Ave	0.2292	0.2297	0.0100	5.00	5.00	0.2	50.0
Trichloroethene	Ave	0.4507	0.4143	0.1000	4.60	5.00	-8.1	25.0
Methylcyclohexane	Ave	0.6442	0.6056	0.2000	4.70	5.00	-6.0	50.0
1,2-Dichloropropane	Ave	0.3531	0.3122	0.1000	4.40	5.00	-11.6	25.0
Bromodichloromethane	Ave	0.3953	0.3798	0.0900	4.80	5.00	-3.9	25.0
cis-1,3-Dichloropropene	Ave	0.5092	0.4723	0.1000	4.60	5.00	-7.2	25.0
4-Methyl-2-pentanone	Ave	0.0837	0.0809	0.0100	48.0	50.0	-3.3	50.0
Toluene	Ave	1.895	1.799	0.4000	4.70	5.00	-5.1	25.0
trans-1,3-Dichloropropene	Ave	0.3447	0.3257	0.0100	4.70	5.00	-5.5	25.0
1,1,2-Trichloroethane	Ave	0.1606	0.1513	0.0400	4.70	5.00	-5.8	25.0
Tetrachloroethene	Ave	0.4158	0.4083	0.1000	4.90	5.00	-1.8	25.0
2-Hexanone	Ave	0.0518	0.0511	0.0100	49.0	50.0	-1.4	50.0
Dibromochloromethane	Ave	0.2008	0.1991	0.0500	5.00	5.00	-0.9	25.0
1,2-Dibromoethane	Ave	0.1355	0.1290	0.0100	4.80	5.00	-4.8	25.0
Chlorobenzene	Ave	1.045	1.008	0.4000	4.80	5.00	-3.5	25.0
Ethylbenzene	Ave	2.221	2.116	0.5000	4.80	5.00	-4.7	25.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
 SDG No.: 200-40524-1
 Lab Sample ID: CCVC 200-122347/15 Calibration Date: 10/20/2017 15:19
 Instrument ID: CHD.i Calib Start Date: 10/03/2017 12:23
 GC Column: DB-624 ID: 0.20 (mm) Calib End Date: 10/03/2017 14:04
 Lab File ID: 27497_15.D Conc. Units: ug/L Heated Purge: (Y/N) N
 EPA Sample No.: VSTD005V7

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
m,p-Xylene	Ave	0.8487	0.8080	0.2000	4.80	5.00	-4.8	25.0
o-Xylene	Ave	0.7667	0.7402	0.3000	4.80	5.00	-3.5	25.0
Styrene	Ave	1.127	1.107	0.2000	4.90	5.00	-1.8	25.0
Bromoform	Ave	0.2246	0.2107	0.0100	4.70	5.00	-6.2	50.0
Isopropylbenzene	Ave	2.259	2.197	0.7000	4.90	5.00	-2.8	25.0
1,1,2,2-Tetrachloroethane	Ave	0.1419	0.1372	0.0500	4.80	5.00	-3.3	25.0
1,3-Dichlorobenzene	Ave	1.690	1.613	0.5000	4.80	5.00	-4.5	25.0
1,4-Dichlorobenzene	Ave	1.645	1.628	0.7000	4.90	5.00	-1.0	25.0
1,2-Dichlorobenzene	Ave	1.271	1.245	0.4000	4.90	5.00	-2.0	25.0
1,2-Dibromo-3-chloropropane	Ave	0.0393	0.0342	0.0100	4.30	5.00	-13.0	50.0
1,2,4-Trichlorobenzene	Ave	0.4993	0.5350	0.3000	5.40	5.00	7.2	50.0
1,2,3-Trichlorobenzene	Ave	0.1392	0.1830*	0.2000	6.60	5.00	31.5	50.0
Vinyl chloride-d3	Ave	0.3970	0.3794	0.0100	4.80	5.00	-4.4	50.0
Chloroethane-d5	Ave	0.2819	0.2857	0.0100	5.10	5.00	1.4	50.0
1,1-Dichloroethene-d2	Ave	0.6313	0.6244	0.0100	4.90	5.00	-1.1	25.0
2-Butanone-d5	Ave	0.0238	0.0210	0.0100	44.0	50.0	-11.6	50.0
Chloroform-d	Ave	0.5401	0.5325	0.0100	4.90	5.00	-1.4	25.0
1,2-Dichloroethane-d4	Ave	0.1749	0.1723	0.0100	4.90	5.00	-1.5	25.0
Benzene-d6	Ave	1.608	1.480	0.0300	4.60	5.00	-7.9	25.0
1,2-Dichloropropane-d6	Ave	0.4444	0.4087	0.1000	4.60	5.00	-8.0	25.0
Toluene-d8	Ave	1.484	1.399	0.2000	4.70	5.00	-5.8	25.0
trans-1,3-Dichloropropene-d4	Ave	0.2977	0.2684	0.0100	4.50	5.00	-9.8	25.0
2-Hexanone-d5	Ave	0.0276	0.0242	0.0100	44.0	50.0	-12.4	50.0
1,1,2,2-Tetrachloroethane-d2	Ave	0.1331	0.1295	0.0100	4.90	5.00	-2.7	25.0
1,2-Dichlorobenzene-d4	Ave	0.7697	0.7445	0.0600	4.80	5.00	-3.3	25.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-122347/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_05.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: _____
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 10:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	
74-87-3	Chloromethane	0.50	U	0.50	
75-01-4	Vinyl chloride	0.50	U	0.50	
74-83-9	Bromomethane	0.50	U	0.50	
75-00-3	Chloroethane	0.50	U	0.50	
75-69-4	Trichlorofluoromethane	0.50	U	0.50	
75-35-4	1,1-Dichloroethene	0.50	U	0.50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	
67-64-1	Acetone	1.9	J	5.0	
75-15-0	Carbon disulfide	0.50	U	0.50	
79-20-9	Methyl acetate	0.50	U	0.50	
75-09-2	Methylene Chloride	0.50	U	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.50	
1634-04-4	Methyl tert-butyl ether	0.50	U	0.50	
75-34-3	1,1-Dichloroethane	0.50	U	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	
78-93-3	2-Butanone	5.0	U	5.0	
74-97-5	Bromochloromethane	0.50	U	0.50	
67-66-3	Chloroform	0.50	U	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	
110-82-7	Cyclohexane	0.50	U	0.50	
56-23-5	Carbon tetrachloride	0.50	U	0.50	
71-43-2	Benzene	0.50	U	0.50	
107-06-2	1,2-Dichloroethane	0.50	U	0.50	
79-01-6	Trichloroethene	0.50	U	0.50	
108-87-2	Methylcyclohexane	0.50	U	0.50	
78-87-5	1,2-Dichloropropane	0.50	U	0.50	
75-27-4	Bromodichloromethane	0.50	U	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
108-88-3	Toluene	0.50	U	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	U	0.50	
127-18-4	Tetrachloroethene	0.50	U	0.50	
591-78-6	2-Hexanone	5.0	U	5.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-122347/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_05.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: _____
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 10:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
124-48-1	Dibromochloromethane	0.50	U	0.50	
106-93-4	1,2-Dibromoethane	0.50	U	0.50	
108-90-7	Chlorobenzene	0.50	U	0.50	
100-41-4	Ethylbenzene	0.50	U	0.50	
95-47-6	o-Xylene	0.50	U	0.50	
179601-23-1	m,p-Xylene	0.50	U	0.50	
100-42-5	Styrene	0.50	U	0.50	
75-25-2	Bromoform	0.50	U	0.50	
98-82-8	Isopropylbenzene	0.50	U	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	U	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	U	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	U	0.50	
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.50	
120-82-1	1,2,4-Trichlorobenzene	0.20	J	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.41	J	0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
6745-35-3	Vinyl chloride-d3	77		40-130
19199-91-8	Chloroethane-d5	86		65-130
22280-73-5	1,1-Dichloroethene-d2	69		60-125
24313-50-6	2-Butanone-d5	99		40-130
865-49-6	Chloroform-d	89		70-125
17060-07-0	1,2-Dichloroethane-d4	95		70-130
1076-43-3	Benzene-d6	91		70-125
93952-08-0	1,2-Dichloropropane-d6	75		60-140
2037-26-5	Toluene-d8	91		70-130
93951-86-1	trans-1,3-Dichloropropene-d4	86		55-130
4840-82-8	2-Hexanone-d5	98		45-130
33685-54-0	1,1,2,2-Tetrachloroethane-d2	88		65-120
2199-69-1	1,2-Dichlorobenzene-d4	91		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-40524-1</u>
SDG No.: <u>200-40524-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 200-122347/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>27497_05.D</u>
Analysis Method: <u>SOM02.2/VOA_Tr</u>	Date Collected: _____
Sample wt/vol: <u>25 (mL)</u>	Date Analyzed: <u>10/20/2017 10:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Trace</u>
Analysis Batch No.: <u>122347</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
SDG No.: 200-40524-1
Client Sample ID: _____ Lab Sample ID: MB 200-122347/5
Matrix: Water Lab File ID: 27497_05.D
Analysis Method: SOM02.2/VOA_Tr Date Collected: _____
Sample wt/vol: 25 (mL) Date Analyzed: 10/20/2017 10:35
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.2 (mm)
% Moisture: _____ Level: (low/med) Trace
Analysis Batch No.: 122347 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
STL00989	Total Alkanes				

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
SDG No.: 200-40524-1
Instrument ID: CHD.i Start Date: 10/03/2017 11:05
Analysis Batch Number: 121645 End Date: 10/03/2017 14:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-121645/3		10/03/2017 11:05	1	27205_03.D	DB-624 0.2 (mm)
IC 200-121645/6		10/03/2017 12:23	1	27205_06.D	DB-624 0.2 (mm)
IC 200-121645/7		10/03/2017 12:48	1	27205_07.D	DB-624 0.2 (mm)
ICIS 200-121645/8		10/03/2017 13:14	1	27205_08.D	DB-624 0.2 (mm)
IC 200-121645/9		10/03/2017 13:39	1	27205_09.D	DB-624 0.2 (mm)
IC 200-121645/10		10/03/2017 14:04	1	27205_10.D	DB-624 0.2 (mm)
ICV 200-121645/12		10/03/2017 14:55	1	27205_12.D	DB-624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-40524-1
SDG No.: 200-40524-1
Instrument ID: CHD.i Start Date: 10/16/2017 08:57
Analysis Batch Number: 122166 End Date: 10/16/2017 13:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-122166/3		10/16/2017 08:57	1	27423_03.D	DB-624 0.2 (mm)
CCVIS 200-122166/4		10/16/2017 09:21	1		DB-624 0.2 (mm)
ZZZZZ		10/16/2017 10:00	1		DB-624 0.2 (mm)
ZZZZZ		10/16/2017 10:52	1		DB-624 0.2 (mm)
ZZZZZ		10/16/2017 11:17	1		DB-624 0.2 (mm)
ZZZZZ		10/16/2017 12:14	2		DB-624 0.2 (mm)
ZZZZZ		10/16/2017 12:40	1		DB-624 0.2 (mm)
ZZZZZ		10/16/2017 13:05	1		DB-624 0.2 (mm)
CCVC 200-122166/12		10/16/2017 13:30	1		DB-624 0.2 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-40524-1SDG No.: 200-40524-1Instrument ID: CHD.iStart Date: 10/20/2017 08:05Analysis Batch Number: 122347End Date: 10/20/2017 15:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-122347/2		10/20/2017 08:05	1	27497_02.D	DB-624 0.2 (mm)
CCVIS 200-122347/4		10/20/2017 09:55	1	27497_04.D	DB-624 0.2 (mm)
MB 200-122347/5		10/20/2017 10:35	1	27497_05.D	DB-624 0.2 (mm)
200-40524-1		10/20/2017 11:22	1	27497_06.D	DB-624 0.2 (mm)
VIBLK 200-122347/7		10/20/2017 11:48	1		DB-624 0.2 (mm)
200-40524-2		10/20/2017 12:13	1	27497_08.D	DB-624 0.2 (mm)
200-40524-1		10/20/2017 12:38	25	27497_09.D	DB-624 0.2 (mm)
ZZZZZ		10/20/2017 13:12	50		DB-624 0.2 (mm)
200-40524-3		10/20/2017 13:37	1	27497_11.D	DB-624 0.2 (mm)
ZZZZZ		10/20/2017 14:03	1		DB-624 0.2 (mm)
200-40524-2		10/20/2017 14:28	100	27497_13.D	DB-624 0.2 (mm)
200-40524-4		10/20/2017 14:53	1	27497_14.D	DB-624 0.2 (mm)
CCVC 200-122347/15		10/20/2017 15:19	1	27497_15.D	DB-624 0.2 (mm)

Shipping and Receiving Documents

Page 1 of 1

ORIGIN ID: ENLA (402) 416-7255
TRAVIS KAMLER
ARGONNE NATIONAL LAB
9700 S CASS AVE
LEMONT, IL 60439
UNITED STATES US

SHIP DATE: 18OCT17
ACTWGT: 15.00 LB
CAD: 104734835/INET3920
DIMS: 13x9x10 IN
BILL SENDER

TO KATHRYN KELLY
TEST AMERICA
30 COMMUNITY DR
STE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990

REF: 8A727-25-167

INV:

PO: AGRA WATERS

DEPT:

FedEx
Express

JT221708130100

THU - 19 OCT 10:30A

PRIORITY OVERNIGHT

TRK#
0201

7705 2675 6917

NC BTVA

05403

VT-US BTV

Login Sample Receipt Checklist

Client: Argonne National Laboratory

Job Number: 200-40524-1

SDG Number: 200-40524-1

Login Number: 40524

List Number: 1

Creator: Deason, Barbara N

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2 °C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Supplement 6:

GreenField Report for Quarterly OMM Event on October 28, 2017

December 14, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
First Quarterly OMM Report of the Fifth OMM Contract**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of the quarterly OMM report of the referenced site. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

Melisa D. McElwee

Melisa McElwee
GreenField Contractors, Inc.

**Former Agra Commodity Credit Corporation,
United States Department of Agriculture Grain
Storage Facility
Agra, Kansas**

KDHE Project Code: C6-074-00002

Legal Description: SW ¼, SE ¼, NW ¼, S27, T3S, R16W
Phillips County, Kansas

Prepared for:

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

Submitted by:

GreenField Contractors, Inc.
Tim Pace, Remedial Director
P.O. Box 677
Salina, Kansas 67401-0677
(785)-822-0900

December 14, 2017

GreenField Contractors, Inc.

TABLE OF CONTENTS

SECTION 1.0 OPERATION, MAINTENANCE AND MONITORING

1.1 Operation and Maintenance.	1
1.2 Monitoring.	1

SECTION 2.0 TABLES

Section 1	Summary of Remedial Action
Section 2	Groundwater/Vapor Extraction/Injection Information
Section 3	System Down Time Summary
Section 4	History of Major Maintenance/Repair Activities
Section 6	Well Inventory Table (Onsite and Offsite Wells)
Section 7	Groundwater Elevations
Section 10	Monitoring & Recovery Well Analytical
Section 14	Groundwater Trends
Section 15	Soil Vapor Extraction (SVE) Unit Field and Laboratory Analytical Results
Section 17	SVE Well Field and Laboratory Analysis Results
Section 18	Air Sparge (ASP) Wells/System Operation
Section 19	SVE Well/Unit Vacuum Extraction Flow Rates and Totalizer / Analyzer Readings
Section 20	Operation and Maintenance Costs vs. Time
Section 21	Permits
Section 22	System Operation Time

SECTION 3.0 FIGURES

Figure 1	Remediation Site Map
Figure 2	Carbon Tetrachloride in Groundwater
Figure 3	Chloroform in Groundwater
Figure 4	1,2 DCA in Groundwater

SECTION 4.0 APPENDICES

Appendix 1	Laboratory Data
Appendix 2	Field Notes

1.0 OPERATION, MAINTENANCE AND MONITORING

This quarterly OMM report for the USDA/CCC site located in Agra, Kansas, documents site activities from the first quarter of operation under the fifth scope of OMM services.

1.1 Operation and Maintenance

Between August 1st, 2017 and October 28th, 2017, two monthly OMM event and one quarterly OMM event was conducted at the Agra CCC/USDA site. The SVE and AS systems operated throughout the quarter. Vapor samples were collected from each individual SVE well line at the SVE manifold and one from the SVE effluent stack at the quarterly OMM event for laboratory analysis of carbon tetrachloride, chloroform, and 1,2 DCA. Groundwater samples were collected from onsite wells GW-1, 3, and 4 at the quarterly OMM event. General maintenance was conducted on the SVE and ASP systems as well.

Soil Vapor Extraction System

The SVE system operates SVE wells SVE-1 & 2 continuously while SVE-3, 4, & 5 are individually operated on alternating intervals. For consistency, SVE operating parameters are collected when SVE-1, 2, & 3 are operating. The SVE system operated at an average pre-filter vacuum of 64.8 inches of water and an average manifold flow rate of 150 cubic feet per minute (cfm) this quarter with the air dilution valve closed.

Monitoring activities on the SVE vapors included measuring total volatile organic compounds (VOC's), carbon dioxide, and oxygen concentrations on the SVE manifold and on each individual well line. Oxygen concentrations maintained 20.9 percent of extracted air. Carbon dioxide levels were at non-detectable levels. The vapor samples were collected from the SVE Effluent and the individual well lines at the SVE manifold at the quarterly OMM event. Vapor samples collected at the SVE manifold were analyzed via EPA Method TO-15 for VOC's carbon tetrachloride, chloroform, and 1,2 DCA. Carbon tetrachloride was detected in the six air samples collected ranging in concentration from 7.5 to 311 ug/m³. Chloroform was detected in the SVE-5 air sample at 3.3 ug/m³. 1,2 DCA was not detected above laboratory detection limits in any of the air samples analyzed.

Air Sparge System

The AS system operated at an average pressure of 14.5 psi and an average cumulative airflow rate of 11.5 scfm this quarter. Wellhead pressures ranged from 3.87 psi to greater than 10 psi. Individual well line airflow rates ranged from 1.8 to 8.5 scfm. The AS-4 well line flowmeter was replaced on September 28, 2017. However, at this October quarterly OM&M visit, The AS-4 and AS-5 flowmeters were found to have the interior top of meter broken out. This is an indication of a sudden surge of flow within the lines causing the float to break though the top of meter.

1.2 Monitoring Monitoring Wells

Groundwater samples were collected at the quarterly OMM event. Two samples were unable to be analyzed as the vials were broken upon delivery to the laboratory. The samples for the two wells were recollected five days later.

The samples were analyzed for chloroform, carbon tetrachloride, and 1,2 DCA. Carbon tetrachloride was detected in the three groundwater samples ranging in concentration from 52.5 to 930 ug/L. Chloroform was detected in the three groundwater samples ranging in concentration from 4.2 ug/L to 11.2 ug/L. 1,2 DCA was not detected in the three groundwater samples analyzed. However, minimum detection levels were elevated in the GW-3 sample to 10 ug/L. The sample vials for GW-1 and GW-4 were noted to have contained bubbles greater than 6mm and results are considered to be minimum values.

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA
Facility Address: 671 Railroad Ave. Agra, KS
Consultant: GreenField Contractors Inc.
Reporting Period: 8/1/2017 through 10/28/2017
Days In Reporting Period 88

Project #: 1491
Consultant Project Mgr.: Tim Pace
Number of Days SVE System Operating: 88
Number of Days ASP System Operating: 88

Section 1 - Summary of Remedial Action

Groundwater:

Pump & Treat: _____ **Total Fluids Pumps (Electric)** _____ **Dual Phase Pumps (Electric)** _____
 _____ **Total Fluids Pumps (Pneumatic)** _____ **Dual Phase Pumps (Pneumatic)** _____
 _____ **With Off-gas Treatment** _____ **W/O Off-gas Treatment** _____
Yes **Air Sparge System:** _____
Recovery Trench(es): _____ **NO** **L** _____ **ft.** **W** _____ **ft.** **D** _____ **ft.**
No. of GW Recovery Wells: _____ **No. of Sparge Wel** **Yes** _____
Startup Dates: **GW Pump & Treat** _____ **Sparge** 5 **Off-gas Treatment** _____
ISOC System: _____ **No. of ISOC Wells:** _____
 _____ **Startup Dates:** **ISOC** _____
Water Treatment System: _____ **Carbon** _____ **Air Stripper Tower** _____ **Tray Stripper** _____
 _____ **Other (Specify):** _____
Public Well Treatment System: _____ **Carbon** _____ **Air Stripper Tower** _____ **Tray Stripper** _____
 _____ **Other (Specify):** _____
Disposition of Treated Water: _____ **Sanitary Sewer** _____ **NPDES** _____ **Reinjection** _____
 _____ **Other (Specify):** _____

Soil:

YES **Vapor Extraction System:** _____ **With Off-gas Treatment** _____ **W/O Off-gas Treatment:** _____
No. of SVE Wells: 5 **Startup Dates:** **VES** _____ **Off-gas Treatment** _____

Comments:

SVE and ASP wells are installed in large diameter borings(LDBs)

Quarterly Monitoring Report					
Facility Name:	<u>Former Agra CCC/USDA</u>			Project #:	<u>1491</u>
Continued Section 1 - Summary of Remedial Action					
<u>Major Equipment on Site:</u>					
Skimmer Pumps:	Brand _____	Type _____	Capacity _____	Date _____	Warr. Exp.
Groundwater Pumps:	Brand _____	Type _____	Capacity _____	Date _____	
Pre-Treatment/Filter:	Brand _____	Type _____		Date _____	
Air Stripper:	Brand _____	Type _____	Capacity _____	Date _____	
Enclosure Type:	Fence _____	Building _____	Skid _____	Other _____	Trailer
Transfer Pumps:	Brand _____	Type _____	Capacity _____	Date _____	
Air Compressor:	Brand _____	Type _____		Date _____	
SVE Vacuum Pump:	Brand <u>Republic</u>	Type <u>HRB-900E</u>	Capacity _____	Date _____	
Sparge Blower Pump:	Brand <u>Reitschle</u>	Type <u>DLT-40</u>	Capacity _____	Date _____	
Oil/H2O Separator:	Brand _____	Type _____	Capacity _____	Date _____	
Knockout Tank:	Brand <u>Ametek</u>	Type <u>M5350B</u>	Capacity <u>350 cfm</u>	Date _____	
Vapor Phase Carbon:	Brand _____	Type _____		Date _____	
Water Phase Carbon:	Brand _____	Type _____		Date _____	
PWS Treatment Equip.	Brand _____	Type _____	Capacity _____	Date _____	
Telemetry:	Model <u>Sensaphone</u>	<u>2000</u>	Type _____	Date _____	
Off-gas Treatment Equip.:	Brand _____	Type _____	Capacity _____	Date _____	
ISOC Oxygen Injection System:	Brand _____	Type _____	Capacity _____	Date _____	

Section 2 - Groundwater/Vapor Extraction/Injection Information					
Design Air Flow Rate for Vapor Extraction System:	<u>--</u>	CFM			
Actual Ave. Flow Rate During 1st. Month of Operation:	<u>255.50</u>	CFM			
Actual Average System Flow Rate Since Start-up:	<u>189.65</u>	CFM			
Reporting Period Average Flow Rate:	<u>150.00</u>	CFM			
Blower Operation:	<u>X</u>	Continual	<u> </u>	Cycling	
Design Air Flow Rate for Air Sparge System:	<u>20.00</u>	CFM			
Actual Ave. Flow Rate During 1st. Month of Operation:	<u>19.10</u>	CFM			
Actual Average System Flow Rate Since Start-up:	<u>13.50</u>	CFM			
Reporting Period Average Flow Rate:	<u>11.50</u>	CFM			
Blower Operation:	<u>X</u>	Continual	<u> </u>	Cycling	

[illegible]

Section 4 - History of Major Maintenance/Repair Activities Since Start-up		
Date of Maintenance/Repair	Description of Work Performed	Performed by:
12/23/09	ASP vanes replaced.	GeoCore Inc.
1/13/10	SVE & ASP hour meters replaced.	GeoCore Inc.
10/6/11	ASP vanes replaced.	GreenField
1/26/11	ASP vanes replaced.	GeoCore Inc.
1/16/13	ASP vanes replaced.	TCW
8/1/13	ASP vanes replaced.	GeoCore Inc.
1/31/14	ASP vanes replaced.	GeoCore Inc.
8/1/14	ASP vanes & filters replaced.	GeoCore Inc.
1/23/15	ASP vanes & filters replaced.	GeoCore Inc.
7/28/15	ASP vanes & filters replaced.	GeoCore Inc.
12/1/15	ASP vanes & filters replaced.	GeoCore Inc.
10/28/16	ASP vanes & filters replaced.	GeoCore Inc.
9/28/17	ASP vanes & filters replaced.	GeoCore Inc.
9/28/17	Replaced AS-4 flowmeter & replaced AS-5 well plug.	GeoCore Inc.

Facility Name:		Former Agra CCC/USDA		Project #:		1491	
Section 6 - Well Inventory (Onsite and Offsite Wells)							
Wells				Wells			
Well No.	Date Install	Dia. (in.)	Screened Interval (ft)	Well No.	Date Install	Dia. (in.)	Screened Interval (ft)
GW-1				SVE-1		4	20-40
GW-3				SVE-2		4	20-40
GW-4				SVE-3		4	20-40
				SVE-4		4	20-40
				SVE-5		4	20-40
				AS-1		2	51.37-53.37
				AS-2		2	58-60
				AS-3		2	53.9-55.9
				AS-4		2	58-60
				AS-5		2	56.27-58.27

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 5/29/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.02		NA	NA
GW-3		—		NA	NA
GW-4		39.93		NA	NA

Date: 8/28/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.26		NA	NA
GW-3		39.16		NA	NA
GW-4		39.85		NA	NA

Date: 11/27/2009

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		38.22		NA	NA
GW-3		38.25		NA	NA
GW-4		39.36		NA	NA

Date: 2/25/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.40		NA	NA
GW-3		37.94		NA	NA
GW-4		39.44		NA	NA

Date: 5/27/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.97		NA	NA
GW-3		38.36		NA	NA
GW-4		39.51		NA	NA

Date: 8/27/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.73		NA	NA
GW-3		37.73		NA	NA
GW-4		38.96		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 11/19/2010

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		37.78		NA	NA
GW-3		37.72		NA	NA
GW-4		39.12		NA	NA

Date: 3/1/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		39.30		NA	NA
GW-3		37.92		NA	NA
GW-4		38.05		NA	NA

Date: 5/25/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
GW-1		NA		NA	NA
GW-3		NA		NA	NA
*GW-4		NA		NA	NA

* SWL'S not collected. Wellheads under water.

Date: 10/27/2011

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		NA		NA	NA
*GW-3		NA		NA	NA
*GW-4		NA		NA	NA

* No SWL'S. Water level indicator probe too big for 1" wells.

Date: 1/26/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		37.98		NA	NA
*GW-3		38.95		NA	NA
*GW-4		39.10		NA	NA

* No SWL'S. Water level indicator faulty.

Date: 4/26/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		37.98		NA	NA
*GW-3		38.95		NA	NA
*GW-4		39.10		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 7/31/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		38.40		NA	NA
*GW-3		38.40		NA	NA
*GW-4		39.30		NA	NA

Date: 10/30/2012

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		38.92		NA	NA
*GW-3		38.87		NA	NA
*GW-4		39.91		NA	NA

Date: 2/1/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.12		NA	NA
*GW-3		39.04		NA	NA
*GW-4		40.28		NA	NA

Date: 4/26/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.41		NA	NA
*GW-3		39.26		NA	NA
*GW-4		40.41		NA	NA

Date: 8/1/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		39.93		NA	NA
*GW-3		39.79		NA	NA
*GW-4		40.20		NA	NA

Date: 10/29/2013

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		40.28		NA	NA
*GW-3		40.20		NA	NA
*GW-4		40.48		NA	NA

Date: 1/31/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		40.55		NA	NA
*GW-3		40.47		NA	NA
*GW-4		40.91		NA	NA

Date: 4/30/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.02		NA	NA
*GW-3		40.89		NA	NA
*GW-4		41.28		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 8/1/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.27		NA	NA
*GW-3		41.21		NA	NA
*GW-4		41.59		NA	NA

Date: 10/29/2014

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.57		NA	NA
*GW-3		41.51		NA	NA
*GW-4		41.84		NA	NA

Date: 1/23/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.62		NA	NA
*GW-3		41.56		NA	NA
*GW-4		41.96		NA	NA

Date: 4/30/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.95		NA	NA
*GW-3		41.92		NA	NA
*GW-4		42.28		NA	NA

Date: 7/28/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.04		NA	NA
*GW-3		42.08		NA	NA
*GW-4		42.52		NA	NA

Date: 10/29/2015

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.53		NA	NA
*GW-3		42.43		NA	NA
*GW-4		42.85		NA	NA

Date: 1/29/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.37		NA	NA
*GW-3		42.21		NA	NA
*GW-4		42.80		NA	NA

Date: 4/29/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.64		NA	NA
*GW-3		42.66		NA	NA
*GW-4		42.84		NA	NA

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Section 7 - Ground Water Elevations

Date: 7/28/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.55		NA	NA
*GW-3		42.60		NA	NA
*GW-4		42.95		NA	NA

Date: 10/28/2016

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.01		NA	NA
*GW-3		41.99		NA	NA
*GW-4		42.41		NA	NA

Date: 1/30/2017

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.27		NA	NA
*GW-3		42.23		NA	NA
*GW-4		42.63		NA	NA

Date: 4/27/2017

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		42.27		NA	NA
*GW-3		42.18		NA	NA
*GW-4		42.59		NA	NA

Date: 8/1/2017

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.68		NA	NA
*GW-3		41.56		NA	NA
*GW-4		41.93		NA	NA

Date: 10/28/2017

Well I.D.	Casing Elevation	Depth To Water	Water Elevation	Free Phase Product Thickness	Free Phase Product Elevation
*GW-1		41.00		NA	NA
*GW-3		40.77		NA	NA
*GW-4		41.29		NA	NA

Quarterly Monitoring Report									
Facility Name:		Former Agra CCC/USDA			Project #: 1491				
Section 10A - Monitoring & Recovery Well Analytical									
(Use ppb units)									
		Chloroform	Carbon tetrachloride	1,2-Dichloroethane					Volume Purged (gallons)
Method		8260B	8260B	8260B					
Det. Level		0.5	0.5	0.5					
Well I.D.	Date								
GW-1	5/29/09	6.7	31.7	ND(1)					NA
	8/28/09	7.7	45.9	ND(1)					NA
	11/27/09	7.3	48.3	ND(1)					NA
	2/25/10	4.2	35.8	ND(1)					NA
	5/27/10	5.1	24.8	ND(1)					NA
	8/27/10	5.4	30.3	ND(1)					NA
	11/19/10	5.8	31.2	ND(1)					NA
	3/1/11	5.5	39.8	ND(1)					NA
	5/25/11	Unable to access due to rain water							
	10/27/11	5.4	34	ND(1)					NA
	1/26/12	5.7	38.9	ND(1)					NA
	4/26/12	5	39.3	ND(1)					NA
	7/31/12	4.8	45	ND(1)					NA
	10/30/12	5.7	45.6	ND(1)					NA
	2/1/13	3.3	30.7	ND(1)					NA
	4/26/13	5.1	56.2	ND(1)					NA
	8/1/13	5.7	50.3	ND(1)					NA
	10/29/13	5.7	84.6	ND(1)					NA
	1/31/14	5.6	93.7	ND(1)					NA
	4/30/14	5	70	ND(1)					NA
	8/1/14	5.8	76.6	ND(1)					NA
	10/29/14	4.5	66.1	ND(1)					NA
	1/23/15	6.3	82.7	ND(1)					NA
	4/30/15	4.8	48	ND(1)					NA
	7/28/15	5.8	49.7	ND(1)					NA
	10/29/15	7	55.8	ND(1)					NA
	1/29/16	4.1	47.6	ND(1)					NA
	4/29/16	5.5	53	ND(1)					NA
	7/28/16	6	49.3	ND(1)					1
	*10/28/2016	6.6	67.4	ND(1)					1
	1/30/17	5.4	57.2	ND(1)					1
	4/27/17	5.6	48.9	ND(1)					1
	8/1/17	5.5	46.7	ND(1)					1
	**11/2/2017	6.3	52.5	ND(1)					1

*Sample not preserved to a pH<2.

**Sample vials contained bubbles greater than 6mm. Sample was not preserved to a pH<2; reported results are considered minimum values.

Quarterly Monitoring Report									
Facility Name:		Former Agra CCC/USDA			Project #: 1491				
Section 10A - Monitoring & Recovery Well Analytical									
(Use ppb units)									
Method		Chloroform	Carbon tetrachloride	1,2-Dichloroethane					Volume Purged (gallons)
Det. Level		8260B	8260B	8260B					
		0.5	0.5	0.5					
Well I.D.	Date								
GW-3	5/29/09	22.7	1210	ND(1)					NA
	8/28/09	29.4	968	ND(20)					NA
	11/27/09	17.4	797	ND(10)					NA
	2/25/10	15.2	733	ND(5)					NA
	5/27/10	16	748	ND(5)					NA
	8/27/10	17.4	913	ND(10)					NA
	11/19/10	25.2	629	ND(10)					NA
	3/1/11	23.3	1180	ND(1)					NA
	5/25/11	Unable to access due to rain water							
	10/27/11	16.2	867	ND(10)					NA
	1/26/12	17.6	857	ND(1)					NA
	4/26/12	14.2	899	ND(10)					NA
	7/31/12	11.6	937	ND(10)					NA
	10/30/12	13.6	947	ND(10)					NA
	2/1/13	3.8	84.4	ND(1)					NA
	4/26/13	15	1870	ND(1)					NA
	8/1/13	23.4	1110	ND(20)					NA
	10/29/13	ND(50)	1850	ND(50)					NA
	1/31/14	ND(20)	978	ND(20)					NA
	4/30/14	15.1	1810	ND(10)					NA
	8/1/14	22.7	1550	ND(20)					NA
	10/29/14	15	1420	ND(1)					NA
	1/23/15	ND(20)	2270	ND(20)					NA
	4/30/15	ND(25)	1530	ND(25)					NA
	7/28/15	17.2	1360	ND(1)					NA
	10/29/15	ND(20)	1420	ND(20)					NA
	1/29/16	ND(20)	1370	ND(20)					NA
	4/29/16	ND(20)	1800	ND(20)					NA
	7/28/16	ND(20)	1020	ND(1)					1
	*10/28/2016	ND(20)	1730	ND(20)					1
	1/30/17	ND(25)	1240	ND(25)					1
	4/27/17	ND(20)	1100	ND(20)					1
	8/1/17	ND(20)	1130	ND(20)					1
	*10/28/2017	11.2	930	ND(10)					1

*Sample not preserved to a pH<2.

Quarterly Monitoring Report									
Facility Name:		Former Agra CCC/USDA			Project #: 1491				
Section 10A - Monitoring & Recovery Well Analytical									
(Use ppb units)									
		Chloroform	Carbon tetrachloride	1,2-Dichloroethane					Volume Purged (gallons)
		8260B	8260B	8260B					
Det. Level		0.5	0.5	0.5					
Well I.D.	Date								
GW-4	5/29/09	2.6	78.6	ND(1)					NA
	8/28/09	4.1	154	ND(1)					NA
	11/27/09	2.9	150	ND(2)					NA
	2/25/10	3.1	228	ND(2)					NA
	5/27/10	2.5	191	ND(2)					NA
	8/27/10	1.8	70.1	ND(1)					NA
	11/19/10	1.7	77.5	ND(1)					NA
	3/1/11	2.6	184	ND(1)					NA
	5/25/11	Unable to access due to rain water							
	10/27/11	2.5	172	ND(2)					NA
	1/26/12	3.3	259	ND(1)					NA
	4/26/12	3.2	199	ND(1)					NA
	7/31/12	4.2	183	ND(1)					NA
	10/30/12	4.1	262	ND(5)					NA
	2/1/13	5.5	45.6	ND(1)					NA
	4/26/13	3.9	246	ND(1)					NA
	8/1/13	6.7	236	ND(5)					NA
	10/29/13	3.9	243	ND(1)					NA
	1/31/14	ND(5)	337	ND(5)					NA
	4/30/14	ND(5)	274	ND(5)					NA
	8/1/14	ND(5)	223	ND(5)					NA
	10/29/14	3.8	259	ND(1)					NA
	1/23/15	3.4	276	ND(2)					NA
	4/30/15	3.2	191	ND(2)					NA
	7/28/15	2.2	99.7	ND(1)					NA
	10/29/15	4.4	193	ND(1)					NA
	1/29/16	3	160	ND(1)					NA
	4/29/16	ND(5)	264	ND(5)					NA
	7/28/16	4.8	288	ND(1)					1
	*10/28/2016	ND(5)	268	ND(5)					1
	1/30/17	3.7	242	ND(1)					1
	4/27/17	2.9	199	ND(2.5)					1
	8/1/17	3.5	218	ND(2.5)					1
	**11/2/2017	4.2	150	ND(1)					1

*Sample not preserved to a pH<2.

**Sample vials contained bubbles greater than 6mm. Sample was not preserved to a pH<2; reported results are considered minimum values.

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 14 - Groundwater Trends

Indicate below any patterns/trends in groundwater fluctuations and discuss hydrological features that may contribute to such fluctuations (i.e., irrigation ditches, ponds, wells, etc.)

Groundwater elevations increased an average of 0.7 feet across the site between August 2017 and October 2017.

Section 15 - SVE Unit Field and Laboratory Analytical Results

SVE Unit: Effluent

Method:	LABORATORY ANALYSIS			FIELD ANALYSIS		
	Chloroform	Carbon Tet.	1,2-DCA	O2	CO2	TPH (PID)
Reporting Units	EPA TO-15	EPA TO-15	EPA TO-15	Readings (%)	Readings (%)	Readings (ppm)
Date	ug/m3	ug/m3	ug/m3			
*5/29/09	2,000	46,000	ND(64)	--	--	--
06/23/09	99	1,100	ND(2.2)	19.7	0	0.2
07/30/09	26	460	ND(2.5)	20.9	0	0
08/28/09	ND(14)	40	ND(11)	19.1	0	0.2
09/23/09	--	--	--	20.9	0	0.4
10/28/09	--	--	--	20.9	0	4.1
11/27/09	8.8	182	ND(3.2)	20.9	0	0.4
12/23/09	--	--	--	20.9	0	0.8
01/28/10	--	--	--	20.9	0	0
02/25/10	12	115	ND(0.81)	20	0	2.2
03/23/10	--	--	--	20.9	0	0
04/29/10	--	--	--	20.9	0	0
05/27/10	6.8	143	ND(3.2)	20.6	0	0
06/22/10	--	--	--	20.3	0	0
07/28/10	--	--	--	20.7	0	0
08/27/10	2.9	34	ND(3.2)	20.9	0	0
09/28/10	--	--	--	20.9	0	0
10/28/10	--	--	--	20.6	0	0
11/19/10	97.2	13000	ND(3.2)	20.9	0	0
12/27/10	--	--	--	21.5	0	0
02/02/11	--	--	--	--	--	--
03/01/11	ND(3.9)	71.7	ND(3.2)	20.9	0	0.1
03/29/11	--	--	--	20.9	0	0
04/27/11	--	--	--	20.9	0	0
05/25/11	ND(3.9)	49	ND(3.2)	20.9	0	0
08/30/11	--	--	--	20.9	0	0
09/26/11	--	--	--	20.4	0	1.2
10/27/11	ND(3.9)	33	ND(3.2)	20.9	0	0.2
11/28/11	--	--	--	20.9	0	0
12/29/11	--	--	--	20.9	0	0.2
01/26/12	ND(3.9)	21	ND(3.2)	20.9	0	0.2
02/21/12	--	--	--	20.9	0	0.1
03/29/12	--	--	--	20.7	0	0
04/26/12	ND(3.9)	25	ND(3.2)	20.9	0	0.3
05/31/12	--	--	--	20.9	0	0
06/28/12	--	--	--	20.9	0	0
07/31/12	ND(3.9)	52	ND(3.2)	20.9	0	0
08/31/12	--	--	--	20.9	0	0.2
09/27/12	--	--	--	20.9	0	0
10/30/12	ND(3.9)	27	ND(3.2)	20.9	0	0
12/01/12	--	--	--	20.9	0	0
12/27/12	--	--	--	20.9	0	0
Continued						

*5/29/09 SVE/AS System Start-up

Facility Name:		Former Agra CCC/USDA				Project #:		1491	
Section 15 - SVE Unit Field and Laboratory Analytical Results									
SVE Unit: Effluent									
		LABORATORY ANALYSIS			FIELD ANALYSIS				
Method:		Chloroform	Carbon Tet.	1,2-DCA	O2	CO2	TPH (PID		
Reporting Units		EPA TO-15	EPA TO-15	EPA TO-15	Readings	Readings	Readings		
		ug/m3	ug/m3	ug/m3	(%)	(%)	(ppm)		
Date									
02/01/13		ND(3.9)	9.4	ND(3.2)	20.9	0	0		
02/28/13		--	--	--	20.9	0	0		
03/26/13		--	--	--	20.9	0	0		
04/26/13		ND(3.9)	20	ND(3.2)	19.8	0	0		
05/30/13		--	--	--	20.9	0	0		
06/27/13		--	--	--	20.5	0	0		
08/01/13		ND(3.9)	48	ND(3.2)	20.9	0	0		
08/31/13		--	--	--	20.9	0	0		
09/27/13		--	--	--	20.9	0	0		
10/29/13		ND(3.9)	38	ND(3.2)	20.5	0	0		
12/02/13		--	--	--	20.9	0	0		
12/28/13		--	--	--	20.9	0	0.2		
01/31/14		ND(3.9)	9.4	ND(3.2)	20.9	0	0		
02/26/14		--	--	--	20.9	0	0		
03/27/14		--	--	--	20.6	0	0		
04/30/14		ND(3.9)	15	ND(3.2)	20.9	0	0		
05/27/14		--	--	--	20.9	0	0		
06/26/14		--	--	--	20.9	0	0		
08/01/14		ND(3.9)	63.5	ND(3.2)	20.9	0	0		
08/28/14		--	--	--	20.9	0	0		
09/29/14		--	--	--	20.9	0	0		
10/29/14		ND(3.9)	41	ND(3.2)	20.9	0	0		
11/26/14		--	--	--	20.9	0	0		
12/31/14		--	--	--	20.9	0	0		
01/23/15		ND(3.9)	11	ND(3.2)	20.9	0	0		
02/27/15		--	--	--	20.9	0	0		
04/01/15		--	--	--	20.9	0	0		
04/30/15		ND(3.9)	50	ND(3.2)	20.9	0	0		
05/30/15		--	--	--	20.9	0	0		
06/29/15		--	--	--	20.9	0	0		
07/28/15		ND(3.9)	76.7	ND(3.2)	20.9	0	0		
08/27/15		--	--	--	20.9	0	0		
09/29/15		--	--	--	20.9	0	0		
10/29/15		ND(3.9)	38	ND(3.2)	20.9	0	0		
12/01/15		--	--	--	20.9	0	0		
01/02/16		--	--	--	20.9	0	0		
01/29/16		ND(3.9)	82.4	ND(3.2)	20.9	0	0		
02/18/16		System deactivated for rebound							
09/29/16		--	--	--	20.9	0	0		
10/28/16		ND(0.98)	25	ND(0.81)	20.9	0	0		
11/29/16		--	--	--	20.9	0	0		
12/29/16		--	--	--	20.9	0	0		
01/30/17		ND(3.9)	64.2	ND(3.2)	20.9	0	0		
02/23/17		--	--	--	20.9	0	0		
04/03/17		--	--	--	20.9	0	0		
04/27/17		ND(2.0)	34	ND(1.6)	20.9	0	0		
05/30/17		--	--	--	20.9	0	0		
06/28/17		--	--	--	20.9	0	0		
08/01/17		ND(3.9)	44	ND(3.2)	20.9	0	0		
08/24/17		--	--	--	20.9	0	0		
09/28/17		--	--	--	20.9	0	0		
10/28/17		ND(3.9)	39	ND(3.2)	20.9	0	0		

Quarterly Monitoring Report										
Facility Name: Former Agra CCC/USDA			Project #: 1491							
Section 17 - SVE Well Field and Laboratory Analytical Results (Report in ug/m3)										
SVE Well: SVE-1		LABORATORY ANALYSIS				FIELD ANALYSIS				
		Chloroform	Carbon	1,2-DCA				O2	CO2	TPH (PID
			Tetrachloride					Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15				(%)	(%)	(ppm)
Date										
05/29/09		710	5,900	ND(31)				--	--	--
06/23/09		11	150	ND(2.6)				19.7	0	0.2
07/30/09		5.1	21	ND(2.4)				20.9	0	0.3
08/28/09		5	20	ND(3.2)				19	0	0.1
09/23/09		--	--	--				20.9	0	0.6
10/28/09		--	--	--				20.9	0	28.1
11/27/09		ND(3.9)	16	ND(3.2)				20.9	0	0.6
12/23/09		--	--	--				20.9	0	3.8
01/28/10		--	--	--				20.9	0	0
02/25/10		2	62	ND(0.81)				20	0	3.9
03/23/10								20.9	0	2.1
04/29/10								20.9	0	0
05/27/10		ND(3.9)	23	ND(3.2)				20.6	0	0
06/22/10		--	--	--				20.3	0	0
07/28/10		--	--	--				20.6	0	0
08/27/10		ND(3.9)	7.5	ND(3.2)				20.9	0	0.4
09/28/10		--	--	--				20.9	0	0.2
10/28/10		--	--	--				20.6	0	0.2
11/19/10		ND(3.9)	138	ND(3.2)				20.6	0	0
12/27/10		--	--	--				21.3	0	0.2
02/02/11		--	--	--				20.9	0	0.2
03/01/11		ND(3.9)	42	ND(3.2)				20.9	0	0.2
03/29/11		--	--	--				20.9	0	0.2
04/27/11		--	--	--				20.9	0	0
05/25/11		ND(3.9)	95	ND(3.2)				20.9	0	0
08/30/11		--	--	--				20.9	0	0.1
09/26/11		--	--	--				20.3	0	1.1
10/27/11		ND(3.9)	5.6	ND(3.2)				20.9	0	0.1
11/28/11		--	--	--				20.9	0	0.1
12/29/11		--	--	--				20.9	0	0.4
01/26/12		ND(3.9)	9.4	ND(3.2)				20.9	0	0.1
02/21/12		--	--	--				20.6	0	0.6
03/29/12		--	--	--				20.9	0	0
04/26/12		ND(3.9)	15	ND(3.2)				20.9	0	0.5
05/31/12		--	--	--				20.9	0	0.1
06/28/12		--	--	--				20.9	0	0.1
07/31/12		Sampling Error						20.9	0	0
08/31/12		--	--	--				20.9	0	0.5
09/27/12		--	--	--				20.9	0	0
10/30/12		ND(3.9)	15	ND(3.2)				20.9	0	0
12/01/12		--	--	--				20.9	0	0.5
12/28/12		--	--	--				20.9	0	0
02/01/13		ND(3.9)	23	ND(3.2)				20.9	0	0.2
02/28/13		--	--	--				20.9	0	0
03/26/13		--	--	--				20.9	0	0.1
04/26/13		ND(3.9)	11	ND(3.2)				19.8	0	0
05/30/13		--	--	--				20.9	0	0
06/27/13		--	--	--				20.5	0	0
08/01/13		ND(3.9)	13	ND(3.2)				20.9	0	0
08/30/13		--	--	--				20.9	0	0
09/27/13		--	--	--				20.9	0	0
10/29/13		ND(0.98)	1.1	ND(0.81)				20.9	0	0
12/02/13		--	--	--				20.9	0	0
12/28/13		--	--	--				20.9	0	0.4
01/31/14		ND(3.9)	8.2	ND(3.2)				20.9	0	0
02/26/14		--	--	--				20.9	0	0
03/27/14		--	--	--				20.9	0	0
04/30/14		ND(3.9)	18	ND(3.2)				20.9	0	0
05/27/14		--	--	--				20.9	0	0
06/26/14		--	--	--				20.9	0	0
08/01/14		ND(3.9)	13	ND(3.2)				20.9	0	0
08/28/14		--	--	--				20.9	0	0
09/29/14		--	--	--				20.9	0	0
10/29/14		ND(3.9)	10	ND(3.2)				20.9	0	0
11/26/14		--	--	--				20.9	0	0
12/31/14		--	--	--				20.9	0	0
01/23/15		ND(3.9)	11	8.5				20.9	0	0
02/27/15		--	--	--				20.9	0	0
04/01/15		--	--	--				20.9	0	0
04/30/15		ND(3.9)	7.5	ND(3.2)				20.9	0	0
05/30/15		--	--	--				20.9	0	0
		Continued								

Facility Name:			Former Agra CCC/USDA			Project #:			1491		
Section 17 - SVE Well Field and Laboratory Analytical Results											
SVE Well: SVE-1 (Report in ug/m3)											
		LABORATORY ANALYSIS				FIELD ANALYSIS					
		Chloroform	Carbon	1,2-DCA				O2	CO2	TPH (PID)	
			Tetrachloride					Readings	Readings	Readings	
Method:		EPA TO-15	EPA TO-15	EPA TO-15				(%)	(%)	(ppm)	
Date											
06/29/15		--	--	--				20.9	0	0	
07/28/15		ND(3.9)	17	ND(3.2)				20.9	0	0	
08/27/15		--	--	--				20.9	0	0	
09/29/15		--	--	--				20.9	0	0	
10/29/15		ND(3.9)	8.8	ND(3.2)				20.9	0	0	
12/01/15		--	--	--				20.9	0	0	
01/02/16		--	--	--				20.9	0	0	
01/29/16		ND(3.9)	ND(5)	ND(3.2)				20.9	0	0	
02/18/16		System deactivated for rebound									
09/29/16		--	--	--				20.9	0	0	
10/28/16		ND(0.98)	1.1	ND(0.81)				20.9	0	0	
11/29/16		--	--	--				20.9	0	0	
12/29/16		--	--	--				20.9	0	0	
01/30/17		ND(3.9)	6.2	ND(3.2)				20.9	0	0	
02/23/17		--	--	--				20.9	0	0	
04/03/17		--	--	--				20.9	0	0	
04/27/17		ND(2.0)	8.2	ND(1.6)				20.9	0	0	
05/30/17		--	--	--				20.9	0	0	
06/28/17		--	--	--				20.9	0	0	
08/01/17		ND(3.9)	ND(5)	ND(3.2)				20.9	0	0	
08/24/17		--	--	--				20.9	0	0	
09/28/17		--	--	--				20.9	0	0	
10/28/17		ND(3.9)	8.8	ND(3.2)				20.9	0	0	

Quarterly Monitoring Report									
Facility Name: Former Agra CCC/USDA		Project #: 1491							
Section 17 - SVE Well Field and Laboratory Analytical Results (Report in ug/m3)									
SVE Well: SVE-2		LABORATORY ANALYSIS				FIELD ANALYSIS			
		Chloroform	Carbon	1,2-DCA			O2	CO2	TPH (PID
			Tetrachloride				Readings	Readings	Readings
Method:		EPA TO-15	EPA TO-15	EPA TO-15			(%)	(%)	(ppm)
Date									
05/29/09		480	8,800	ND(48)			—	—	—
06/23/09		17	49	ND(2.5)			19.7	0	0.3
07/30/09		5.2	26	ND(2.4)			20.9	0	0.6
08/28/09		1	5	ND(0.80)			19.2	0	0.3
09/23/09		—	—	—			20.9	0	0.7
10/28/09		—	—	—			20.9	0	26.6
11/27/09		2.1	23	ND(3.2)			20.9	0	1.2
12/23/09		—	—	—			20.9	0	5.3
01/28/10		—	—	—			20.9	0	0
02/25/10		1.6	12	ND(0.81)			19.9	0	2.6
03/23/10		—	—	—			20.6	0	2.8
04/29/10		—	—	—			20.9	0	0
05/27/10		ND(3.9)	6.3	ND(3.2)			20.7	0	0
06/22/10		—	—	—			20.4	0	0
07/28/10		—	—	—			20.7	0	0
08/27/10		ND(3.9)	3.8	ND(3.2)			20.9	0	0.4
09/28/10		—	—	—			20.9	0	0.2
10/28/10		—	—	—			20.6	0	0.2
11/19/10		55.7	12000	ND(3.2)			20.6	0	0
12/27/10		—	—	—			21.5	0	0
02/02/10		—	—	—			20.8	0	0
03/01/11		ND(3.9)	5.4	ND(3.2)			20.9	0	0.2
03/29/11		—	—	—			20.9	0	0.2
04/27/11		—	—	—			20.9	0	0
05/25/11		ND(3.9)	23	ND(3.2)			20.9	0	0
08/30/11		—	—	—			20.9	0	0
09/26/11		—	—	—			20.3	0	1.2
10/27/11		ND(3.9)	3.5	ND(3.2)			20.9	0	0.4
11/28/11		—	—	—			20.9	0	0
12/29/11		—	—	—			20.9	0	0.8
01/26/12		ND(3.9)	6.9	ND(3.2)			20.8	0	0
02/21/12		—	—	—			20.6	0	0.6
03/29/12		—	—	—			20.9	0	0.1
04/26/12		ND(3.9)	13	ND(3.2)			20.9	0	0.9
05/31/12		—	—	—			20.9	0	0
06/28/12		—	—	—			20.9	0	0
07/31/12		ND(3.9)	7.5	ND(3.2)			20.9	0	0
08/31/12		—	—	—			20.9	0	0.7
09/27/12		—	—	—			20.9	0	0
10/30/12		2.3	3.7	ND(3.2)			20.9	0	0
12/01/12		—	—	—			20.9	0	0.5
12/28/12		—	—	—			20.9	0	0
02/01/13		ND(3.9)	3.7	ND(3.2)			20.9	0	0.2
02/28/13		—	—	—			20.9	0	0
03/26/13		—	—	—			20.9	0	0
04/26/13		ND(3.9)	5.9	ND(3.2)			19.6	0	0
05/30/13		—	—	—			20.9	0	0
06/27/13		—	—	—			20.3	0	0
08/01/13		ND(3.9)	4.3	ND(3.2)			20.9	0	0
08/31/13		—	—	—			20.9	0	0
09/27/13		—	—	—			20.9	0	0
10/29/13		ND(0.98)	0.82	ND(0.81)			20.9	0	0
12/02/13		—	—	—			20.8	0	0
12/28/13		—	—	—			20.9	0	0.3
01/31/14		ND(3.9)	3.3	ND(3.2)			20.9	0	0
02/26/14		—	—	—			20.9	0	0
03/27/14		—	—	—			20.6	0	0
04/30/14		ND(3.9)	6.3	ND(3.2)			20.9	0	0
05/27/14		—	—	—			20.9	0	0
06/26/14		—	—	—			20.9	0	0
08/01/14		ND(3.9)	5.3	ND(3.2)			20.9	0	0
08/28/14		—	—	—			20.9	0	0
09/29/14		—	—	—			20.9	0	0
10/29/14		ND(3.9)	ND(5)	ND(3.2)			20.9	0	0
11/26/14		—	—	—			20.9	0	0
12/31/14		—	—	—			20.9	0	0
01/23/15		ND(3.9)	ND(5)	ND(3.2)			20.9	0	0
02/27/15		—	—	—			20.9	0	0
04/01/15		—	—	—			20.9	0	0
04/30/15		ND(3.9)	2.9	ND(3.2)			20.9	0	0
05/30/15		—	—	—			20.9	0	0
Continued									

Quarterly Monitoring Report									
Facility Name:		Former Agra CCC/USDA				Project #: 1491			
Section 17 - SVE Well Field and Laboratory Analytical Results									
SVE Well: SVE-2		(Report in ug/m3)							
		LABORATORY ANALYSIS				FIELD ANALYSIS			
		Chloroform	Carbon Tetrachloride	1,2-DCA			O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
Method:		EPA TO-15	EPA TO-15	EPA TO-15					
Date									
06/29/15		--	--	--			20.9	0	0
07/28/15		ND(3.9)	4.5	ND(3.2)			20.9	0	0
08/27/15		--	--	--			20.9	0	0
09/29/15		--	--	--			20.9	0	0
10/29/15		ND(3.9)	ND(5)	ND(3.2)			20.9	0	0
12/01/15		--	--	--			20.9	0	0
01/02/16		--	--	--			20.9	0	0
01/29/16		ND(3.9)	42	ND(3.2)			20.9	0	0
02/18/16		System deactivated for rebound							
09/29/16		--	--	--			20.9	0	0
10/28/16		ND(0.98)	2.6	ND(0.81)			20.9	0	0
11/29/16		--	--	--			20.9	0	0
12/29/16		--	--	--			20.9	0	0
01/30/17		ND(3.9)	3.2	ND(3.2)			20.9	0	0
02/23/17		--	--	--			20.9	0	0
04/03/17		--	--	--			20.9	0	0
04/27/17		ND(2.0)	3.6	ND(1.6)			20.9	0	0
05/30/17		--	--	--			20.9	0	0
06/28/17		--	--	--			20.9	0	0
08/01/17		ND(3.9)	ND(5)	ND(3.2)			20.8	0	0
08/24/17		--	--	--			20.9	0	0
09/28/17		--	--	--			20.9	0	0
10/28/17		ND(3.9)	7.5	ND(3.2)			20.9	0	0

Quarterly Monitoring Report										
Facility Name: <u>Former Agra CCC/USDA</u>				Project #: <u>1491</u>						
Section 17 - SVE Well Field and Laboratory Analytical Results										
SVE Well: <u>SVE-3</u> (Report in ug/m3)										
		LABORATORY ANALYSIS			FIELD ANALYSIS					
		Chloroform	Carbon	1,2-DCA				O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
			Tetrachloride							
Method:		EPA TO-15	EPA TO-15	EPA TO-15						
Date										
06/29/15		--	--	--				20.9	0	0
07/28/15		2.1	184	ND(3.2)				20.9	0	0
08/27/15		--	--	--				20.9	0	0
09/29/15		--	--	--				20.9	0	0
10/29/15		ND(3.9)	166	ND(3.2)				20.9	0	0
12/01/15		--	--	--				20.9	0	0.1
01/02/16		--	--	--				20.9	0	0
01/29/16		2.1	240	ND(3.2)				20.9	0	0
02/18/16		System deactivated for rebound								
09/29/16		--	--	--				20.9	0	0
10/28/16		1.4	145	ND(0.81)				20.9	0	0
11/29/16		--	--	--				20.9	0	0
12/29/16		--	--	--				20.9	0	0
01/30/17		ND(3.9)	144	ND(3.2)				20.9	0	0
02/23/17		--	--	--				20.9	0	0
04/03/17		--	--	--				20.9	0	0
04/27/17		1.6	120	ND(1.6)				20.9	0	0
05/30/17		--	--	--				20.9	0	0
06/28/17		--	--	--				20.9	0	0
08/01/17		1.9	144	ND(3.2)				20.8	0	0
08/24/17		--	--	--				20.9	0	0
09/28/17		--	--	--				20.9	0	0
10/28/17		ND(3.9)	55	ND(3.2)				20.9	0	0

Facility Name: Former Agra CCC/USDA			Quarterly Monitoring Report				Project #: 1491		
Section 17 - SVE Well Field and Laboratory Analytical Results									
SVE Well: SVE-4 (Report in ug/m3)									
	LABORATORY ANALYSIS						FIELD ANALYSIS		
	Chloroform	Carbon Tetrachloride	1,2-DCA				O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
Method:	EPA TO-15	EPA TO-15	EPA TO-15						
Date									
05/29/09	1,800	29,000	ND(160)				--	--	--
06/23/09	51	400	ND(2.5)				19.5	0	0.4
07/30/09	12	130	ND(2.3)				20.9	0	0.7
08/28/09	8	84	ND(3.2)				19.4	0	0.2
09/23/09	--	--	--				20.9	0	0.8
10/28/09	--	--	--				20.6	0	31.3
11/27/09	7.3	110	ND(3.2)				20.9	0	0.6
12/23/09	--	--	--				20.9	0	3.6
01/28/10	--	--	--				20.9	0	0
02/25/10	6.8	59	ND(0.81)				20	0	0.7
03/23/10	--	--	--				20.9	0	0
04/29/10	--	--	--				20.9	0	0
05/27/10	3.6	35	ND(3.2)				20.4	0	0
06/22/10	--	--	--				20.1	0	0.2
07/28/10	--	--	--				20.5	0	0
08/27/10	3	17	ND(3.2)				20.9	0	0.4
09/28/10	--	--	--				20.9	0	0.4
10/28/10	--	--	--				20.9	0	0.9
11/19/10	90.3	34300	ND(3.2)				20.9	0	0
12/27/10	--	--	--				21.5	0	0.2
02/02/11	--	--	--				20.9	0	0
03/01/11	ND(3.9)	25	ND(3.2)				20.9	0	0
03/29/11	--	--	--				20.9	0	0.2
04/27/11	--	--	--				20.9	0	0
05/25/11	ND(3.9)	23	ND(3.2)				20.9	0	0
08/30/11	--	--	--				20.9	0	0
09/23/11	--	--	--				20.2	0	1.8
10/27/11	ND(3.9)	17	ND(3.2)				20.9	0	0.1
11/28/11	--	--	--				20.9	0	0.1
12/29/11	--	--	--				20.9	0	0.1
01/26/12	ND(3.9)	8.8	ND(3.2)				20.8	0	0.1
02/21/12	--	--	--				20.9	0	0.8
03/29/12	--	--	--				20.8	0	0
04/26/12	ND(3.9)	8.2	ND(3.2)				20.9	0	0.3
05/31/12	--	--	--				--	--	--
06/28/12	--	--	--				--	--	--
07/31/12	ND(3.9)	18	ND(3.2)				20.9	0	0
08/31/12	--	--	--				--	--	--
09/27/12	--	--	--				--	--	--
10/30/12	ND(3.9)	8.2	ND(3.2)				20.9	0	0
12/01/12	--	--	--				--	--	--
12/28/12	--	--	--				--	--	--
02/01/13	ND(3.9)	8.2	ND(3.2)				20.9	0	0.3
02/28/13	--	--	--				Off Cycling		
03/26/13	--	--	--				Off Cycling		
04/26/13	ND(3.9)	4.4	ND(3.2)				20.2	0	0.1
05/30/13	--	--	--				--	--	--
06/27/13	--	--	--				--	--	--
08/01/13	ND(3.9)	18	ND(3.2)				20.5	0	0
08/30/13	--	--	--				--	--	--
09/27/13	--	--	--				20.9	0	0
10/29/13	ND(3.9)	14	ND(3.2)				20.4	0	0
12/02/13	--	--	--				--	--	--
12/28/13	--	--	--				--	--	--
01/31/14	ND(3.9)	13	ND(3.2)				20.9	0	0
02/26/14	--	--	--				--	--	--
03/27/14	--	--	--				--	--	--
04/30/14	ND(3.9)	20	ND(3.2)				20.9	0	0
08/01/14	ND(3.9)	28	ND(3.2)				20.9	0	0
10/29/14	ND(3.9)	13	ND(3.2)				20.9	0	0
01/23/15	ND(3.9)	12	ND(3.2)				20.9	0	0
04/30/15	ND(3.9)	20	ND(3.2)				20.9	0	0
07/28/15	ND(3.9)	30	ND(3.2)				20.9	0	0
10/29/15	ND(3.9)	ND(5)	ND(3.2)				20.9	0	0
01/29/16	ND(3.9)	20	ND(3.2)				20.9	0	0
02/18/16	System deactivated for rebound								
10/28/16	ND(0.98)	19	ND(0.81)				20.9	0	0
01/30/17	ND(3.9)	16	ND(3.2)				20.9	0	0
04/27/17	ND(2.0)	14	ND(1.6)				20.9	0	0
08/01/17	ND(3.9)	15	ND(3.2)				20.9	0	0
10/28/17	ND(3.9)	14	ND(3.2)				20.9	0	0

Quarterly Monitoring Report								
Facility Name: Former Agra CCC/USDA		Project #: 1491						
Section 17 - SVE Well Field and Laboratory Analytical Results								
(Report in ug/m3)								
SVE Well: SVE-5								
LABORATORY ANALYSIS								
Chloroform			Carbon			1,2-DCA		
EPA TO-15			Tetrachloride			EPA TO-15		
Method:			EPA TO-15			EPA TO-15		
FIELD ANALYSIS								
O2 Readings (%)			CO2 Readings (%)			TPH (PID) Readings (ppm)		
Date								
05/29/09 310 13,000 ND(64) -- -- --								
06/23/09 160 1,900 ND(2.4) 19.7 0 0.3								
07/30/09 39 760 ND(2.4) 20.9 0 0.6								
08/28/09 26 525 ND(3.2) 19.2 0 0.3								
09/23/09 -- -- -- 20.9 0 1.3								
10/28/09 -- -- -- 20.6 0 29								
11/27/09 6.8 188 ND(3.2) 20.9 0 0.5								
12/23/09 -- -- -- 20.9 0 3.9								
01/28/10 -- -- -- 20.9 0 0								
02/25/10 18 174 ND(0.81) 19.9 0 5.7								
03/23/10 -- -- -- 20.9 0 0								
04/29/10 -- -- -- 20.9 0 0								
05/27/10 5.9 130 ND(3.2) 20.6 0 0								
06/22/10 -- -- -- 20.3 0 0.2								
07/28/10 -- -- -- 20.6 0 0.4								
08/27/10 2.9 55 ND(3.2) 20.9 0 0.4								
09/28/10 -- -- -- 20.9 0 0.2								
10/28/10 -- -- -- 20.9 0 0.4								
11/19/10 31 4940 ND(3.2) 20.9 0 0								
12/27/10 -- -- -- 21.5 0 0.2								
02/02/11 -- -- -- 20.9 0 0.1								
03/01/11 ND(3.9) 129 ND(3.2) 20.9 0 0								
03/29/11 -- -- -- 20.9 0 0.2								
04/27/11 -- -- -- 20.9 0 0								
05/25/11 3.2 125 ND(3.2) 20.5 0 0								
08/30/11 -- -- -- 20.9 0 0.1								
09/26/11 -- -- -- 20.4 0 1.3								
10/27/11 ND(3.9) 18 ND(3.2) 20.9 0 0.1								
11/28/11 -- -- -- 20.9 0 0								
12/29/11 -- -- -- 20.8 0 0.3								
01/26/12 ND(3.9) 18 ND(3.2) 20.8 0 0								
02/21/12 -- -- -- 20.9 0 0.7								
03/29/12 -- -- -- 20.9 0 0.1								
04/26/12 2.4 36 ND(3.2) 20.9 0 0.4								
05/31/12 -- -- -- OFF OFF OFF								
06/28/12 -- -- -- OFF OFF OFF								
07/31/12 ND(3.9) 40 ND(3.2) 20.9 0 0								
08/31/12 -- -- -- -- -- --								
09/27/12 -- -- -- -- -- --								
10/30/12 ND(3.9) 23 ND(3.2) 20.9 0 0								
12/01/12 -- -- -- NA								
12/28/12 -- -- -- NA								
02/01/13 ND(3.9) 18 ND(3.2) 20.9 0 0.2								
02/28/13 -- -- -- Off Cycling								
03/26/13 -- -- -- Off Cycling								
04/26/13 ND(3.9) 4.6 ND(3.2) 20 0 0								
05/30/13 -- -- -- -- -- --								
06/27/13 -- -- -- -- -- --								
08/01/13 ND(3.9) 49 ND(3.2) 20.8 0 0								
08/30/13 -- -- -- -- -- --								
09/27/13 -- -- -- 20.9 0 0								
10/25/13 ND(3.9) 45 ND(3.2) 20.5 0 0								
12/02/13 -- -- -- -- -- --								
12/28/13 -- -- -- -- -- --								
01/31/14 ND(3.9) 162 ND(3.2) 20.9 0 0								
02/26/14 -- -- -- -- -- --								
03/27/14 -- -- -- -- -- --								
04/30/14 ND(3.9) 64.8 ND(3.2) 20.9 0 0								
08/01/14 ND(3.9) 96.2 ND(3.2) 20.9 0 0								
10/29/14 ND(3.9) 45 ND(3.2) 20.9 0 0								
01/23/15 ND(3.9) 47 ND(3.2) 20.9 0 0								
04/30/15 ND(3.9) 77.4 ND(3.2) 20.9 0 0								
07/28/15 ND(3.9) 117 ND(3.2) 20.9 0 0								
10/29/15 ND(3.9) 91.2 ND(3.2) 20.9 0 0								
01/29/16 ND(3.9) 128 ND(3.2) 20.9 0 0								
02/18/16 System deactivated for rebound								
10/28/16 1 250 ND(0.81) 20.9 0 0								
01/30/17 2 370 ND(3.2) 20.9 0 0								
04/27/17 1.7 294 ND(1.6) 20.9 0 0								
08/01/17 3.4 378 ND(3.2) 20.9 0 0								
10/28/17 3.3 311 ND(3.2) 20.9 0 0								

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-1

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	5.5	4.95	5
06/23/09	5.89	5.29	3.5
07/29/09	6.11	5.25	6
08/28/09	5.88	4.13	6
09/23/09	5.91	5.04	6.9
10/28/09	5.47	4.03	9
11/27/09	5.96	5.76	3.6
12/23/09	4.97	4.29	4
01/28/10	4.77	4.56	5
02/25/10	4.95	4.72	4.9
03/23/10	4.84	4.46	4.8
04/29/10	5.47	5.31	3
05/27/10	5.69	5.14	4.2
06/22/10	6.18	5.54	5
07/28/10	1.06	0.57	4.8
08/27/10	Blower faulty. System deactivated.		
10/28/10	0.92	0.32	5.9
11/19/10	Possible broken line. Well Line deactivated.		
12/27/10	OFF		
02/02/11	5.4	4.89	3
03/01/11	5.34	NA	3
03/29/11	4.61	NA	4
04/27/11	5.47	5.01	3.3
05/25/11	5.65	NA	3.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	5.75	5.49	4
11/28/11	5.68	5.11	4
12/29/11	5.32	5.31	4
01/26/12	5.54	5.3	3
02/21/12	5.68	5.19	2.8
03/29/12	5.86	5.41	3
04/28/12	5.62	5.18	2.5
05/31/12	5.44	5.18	2
06/28/12	5.34	5.17	4
07/31/12	5.28	5.04	4
08/31/12	5.44	4.85	6
09/27/12	5.33	4.9	5
10/30/12	5.32	4.98	4
12/01/12	Needs Vanes & Filters		
02/01/13	5.14	4.86	3
02/28/13	4.73	4.36	5
03/26/13	4.59	4.4	4
04/26/13	4.91	4.79	3
05/30/13	4.91	4.55	3.5
06/27/13	4.91	4.51	4
08/01/13	4.69	4.4	3.5
08/30/13	4.67	4.24	4
09/27/13	4.54	4.26	3.8
10/29/13	4.74	4.47	3.5
12/02/13	4.4	3.96	6
12/28/13	4.73	4.55	3.5
01/31/14	4.27	4.06	3.5
02/26/14	4.16	3.82	5
03/27/14	4.38	3.94	5
04/30/14	4.31	3.9	5.3
05/27/14	4.63	3.96	5.2
06/26/14	4.52	3.93	4.9
08/01/14	4.27	3.9	5
08/28/14	4.42	3.89	5.5
09/29/14	4.36	3.8	6
10/29/14	4.37	3.69	6.7
11/26/14	4.42	3.63	7
12/31/14	4.26	3.34	6.8
01/23/15	4.17	3.57	6.6
02/27/15	4.34	3.49	7.9
04/01/15	4.27	3.7	6.5
04/30/15	4.2	3.62	6.2
05/30/15	4.33	3.63	6.3
06/29/15	3.92	3.36	6.1
07/28/15	4.19	3.39	6
	Continued		

Possible broken line, pad hit by tractor & moved. Took readings & turned off

Wellhead Pad Under construction
Wellhead Pad Under construction

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: **AS-1**

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	4.32	3.42	7.7
09/29/15	4	3.27	7
10/29/15	3.95	3.29	6.7
12/01/15	3.78	3.35	5.7
01/02/16	3.62	3.54	4
01/29/16	3.56	3.4	4
02/18/16	System deactivated for rebound		
09/29/16	5.16	5.1	4
10/28/16	4.81	4.7	4
11/29/16	4.83	4.44	4
12/29/16	4.74	4.37	4.2
01/30/17	4.88	4.5	4
02/23/17	3.67	3.39	4
04/03/17	3.74	3.51	4.5
04/27/17	3.77	3.33	5.4
05/30/17	3.77	3.44	5
06/28/17	3.82	3.42	4.9
08/01/17	3.93	3.55	4.5
08/24/17	4.15	3.87	4.4
09/28/17	4.16	3.87	4
10/28/17	4.46	4.02	5.4

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-2

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.5	5
06/23/09	8.84	8.31	4
07/29/09	8.27	8.21	1.5
08/28/09	8.33	8.08	2
09/23/09	8.2	8.1	1.1
10/28/09	8.2	7.96	0.5
11/27/09	8.74	8.61	3.5
12/23/09	8.48	8.06	4
01/28/10	8.33	8.06	3.7
02/25/10	8.41	8.22	3
03/23/10	8.47	8.37	2
04/29/10	8.61	8.35	3
05/27/10	8.88	8.48	3.7
06/22/10	8.74	8.53	2.4
07/28/10	8.9	8.45	2.8
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.42	8.27	3.7
11/19/10	8.92	8.61	4
12/27/10	9.13	8.65	5
02/02/11	8.76	8.41	3.7
03/01/11	2	0.54	3
03/29/11	0.44	0.11	4
04/27/11	Deactivated due to no PSI at Manifold through 10-6-11		
11/28/11	9.03	9	4
12/29/11	9.03	9	4
01/26/12	8.68	8.67	3
02/21/12	8.97	8.63	2.8
03/29/12	9.16	8.66	3
04/26/12	8.95	8.65	3
05/31/12	8.59	8.36	2
06/28/12	8.72	8.14	5
07/31/12	8.36	8.18	5
08/31/12	8.81	8.28	6
09/27/12	8.49	8.13	5
10/30/12	8.25	8.02	4
12/01/12	Needs Vanes & Filters		
02/01/13	8.43	8.11	3.7
02/28/13	7.98	7.59	5
03/26/13	7.68	7.3	4
04/26/13	7.96	7.82	3
05/30/13	7.86	7.47	2.5
06/27/13	8.37	7.92	4
08/01/13	7.59	7.32	4
08/31/13	7.76	7.3	4
09/27/13	7.82	7.55	4
10/29/13	7.85	7.59	3.7
12/02/13	7.8	7.38	6
12/28/13	7.87	7.79	3.5
01/31/14	7.68	7.42	3.5
02/26/14	7.67	7.29	5
03/27/14	7.87	7.45	5
04/30/14	7.89	7.38	2
05/27/14	8.05	7.43	5.2
06/26/14	7.98	7.37	5.1
08/01/14	7.93	7.27	5
08/28/14	8.61	7.38	8.5
09/29/14	8.34	7.29	8
10/29/14	8.04	7.17	7.7
11/26/14	7.78	7.09	7
12/31/14	7.37	6.76	5.5
01/23/15	7.26	6.9	5
02/27/15	7.56	6.79	7
04/01/15	7.64	7.07	6.5
04/30/15	7.52	6.98	6.2
05/30/15	7.7	7.01	6
06/29/15	7.49	6.96	5.8
07/28/15	7.46	6.96	6
	Continued		

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-2

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	7.46	6.98	5
09/29/15	7.14	6.79	4.8
10/29/15	7.11	6.73	4.7
12/01/15	7.33	6.9	5
01/02/16	6.46	4.27	4
01/29/16	7.38	6.8	4
02/18/16	System deactivated for rebound		
09/29/16	10+	10+	4
10/28/16	10+	9.72	4
11/29/16	9.98	9.55	4
12/29/16	9.97	9.41	4.2
01/30/17	10+	9.64	4
02/23/17	7.36	7.04	4
04/03/17	7.44	7.04	4.5
04/27/17	7.36	7.03	4.3
05/30/17	7.46	7.15	3.8
06/28/17	7.48	7.28	3.6
08/01/17	7.55	7.37	3.8
08/24/17	7.47	7.32	3
09/28/17	7.5	7.33	3
10/28/17	8.86	7.57	8.5

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-3

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.21	5
06/23/09	7.75	6.98	4
07/29/09	8.87	8.08	5
08/28/09	8.5	8.13	7
09/23/09	8.3	7.8	5
10/28/09	8.16	7.89	3.2
11/27/09	8.86	8.8	2.2
12/23/09	7.41	7.33	4
01/28/10	7.19	6.66	4.7
02/25/10	7.15	6.78	4.8
03/25/10	6.9	6.6	5
04/29/10	7.4	7.22	3
05/27/10	7.78	7.51	4.9
06/22/10	8.71	8.27	4
07/28/10	8.96	8.27	4
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.35	7.67	5
11/19/10	8.82	8.05	6.8
12/27/10	9.19	8.74	3.5
02/02/11	8.68	8.39	2
03/01/11	8	7.64	3
03/29/11	7.75	7.46	4
04/27/11	8.22	8.09	3
05/25/11	10+	NA	2.8
08/30/11	OFF		
09/26/11	OFF		
10/27/11	8	7.73	5
11/28/11	8.32	8.04	4
12/29/11	10.55	10.21	4
01/26/12	12.46	12.42	3
02/21/12	10+	10+	1.3
03/29/12	11.74	10.74	1.5
04/28/12	11.13	11	3
05/31/12	13.98	13.8	3
06/28/12	15.72	15.07	6
07/31/12	10+	10+	2
08/31/12	7.71	7.65	1
09/27/12	10+	10+	1.5
10/30/12	10+	10+	2
12/01/12	Needs Vanes & Filters		
02/01/13	10+	10+	3.2
02/28/13	10+	10+	4
03/26/13	10+	10+	2
04/26/13	10+	10+	0.5
05/30/13	10+	10+	1.5
06/27/13	10+	10+	0
08/01/13	10+	10+	<0.5
08/31/13	10+	10+	1
09/27/13	10+	10+	0.5
10/29/13	10+	10+	0.5
12/02/13	10+	10+	0
12/28/13	10+	10+	0.5
01/31/14	6.39	5.32	1
02/26/14	10+	10+	7
03/27/14	10+	10+	3
04/30/14	15.77	15.66	2
05/27/14	16.11	15.87	1.5
06/26/14	14.32	14.23	1.7
08/01/14	10+	10+	1.7
08/28/14	10+	10+	2
09/29/14	10+	10+	2
10/29/14	10+	10+	1.7
11/26/14	10+	10+	2
12/31/14	10+	10+	1.8
01/23/15	10+	10+	1.8
02/27/15	10+	10+	2
04/01/15	10+	10+	1.8
04/30/15	10+	10+	2
05/30/15	10+	10+	2
06/29/15	10+	10+	2
07/28/15	10+	10+	2.2
	Continued		

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: **AS-3**

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
08/27/15	10+	10+	3
09/29/15	10+	10+	3.3
10/29/15	10+	10+	3.2
12/01/15	12.9	3.22	3
01/02/16	10+	10+	3.2
01/29/16	10+	10+	3.3
02/18/16	System deactivated for rebound		
09/29/16	10+	10+	3.5
10/28/16	10+	10+	3.5
11/29/16	10+	10+	4.2
12/29/16	10+	10+	3.2
01/30/17	10+	10+	3.7
02/23/17	10+	10+	3
04/03/17	10+	10+	1
04/27/17	10+	10+	1.8
05/30/17	10+	10+	2.5
06/28/17	10+	10+	2.5
08/01/17	10+	10+	2.5
08/24/17	10+	10+	2.4
09/28/17	10+	10+	2
10/28/17	10+	10+	1.8

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-4

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	9	8.56	5
06/23/09	8.41	8.16	3.7
07/29/09	8.17	8.03	1.5
08/28/09	8.38	8.14	3
09/23/09	8.05	7.95	1.5
10/28/09	8.2	7.97	1
11/27/09	8.65	8.48	3.6
12/23/09	8.29	8.16	4
01/28/10	8.32	7.81	5
02/25/10	8.37	8.01	4.5
03/23/10	8.43	8.11	4.5
04/29/10	8.48	8.25	3
05/27/10	8.34	8.25	1.8
06/22/10	8.44	8.14	3
07/28/10	8.62	7.93	2.2
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.46	8.26	3.6
11/19/10	8.9	8.52	4.6
12/27/10	8.5	8.4	4
02/02/11	8.49	8.36	2
03/01/11	8.68	8.52	3
03/29/11	10+	7.89	1
04/27/11	8.58	8.28	2
05/25/11	8.71	NA	2.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	8.72	8.45	4
11/28/11	8.84	8.55	4
12/29/11	8.61	8.36	4
01/26/12	8.96	8.81	3
02/21/12	10+	8.28	2.8
03/29/12	8.89	8.09	3
04/28/12	8.65	8.19	3
05/31/12	OFF	OFF	OFF
06/28/12	OFF	OFF	OFF
07/30/12	8.25	7.76	5
08/31/12	--	--	--
09/27/12	8.54	7.76	6
10/30/12	8.88	8.1	7.75
12/01/12	Needs Vanes & Filters		
02/01/13	10+	8.16	8.5
02/28/13	Off Cycling		
03/26/13	Off Cycling		
04/26/13	7.91	7.86	2.5
05/30/13	--	--	--
06/27/13	--	--	--
08/01/13	8.75	7.18	7
08/31/13	--	--	--
09/27/13	7.51	7.35	3.5
10/29/13	7.71	7.47	3.7
12/02/13	--	--	--
12/28/13	--	--	--
01/31/14	7.61	--	4.5
04/30/14	8.39	7.23	9
08/01/14	7.95	7.03	Broken
10/29/14	8.15	6.88	10.1
01/23/14	7.63	6.72	8.8
04/30/15	7.91	6.72	9.9
07/28/15	7.51	6.52	8.9
10/29/15	7.81	6.44	11
01/29/16	7.9	6.6	11.5
02/18/16	System deactivated for rebound		
10/28/16	10+	9.36	11
01/30/17	Flowmeter broken to current		
10/28/17	7.96	7.17	Broken

Unable to collect wellhead pressure reading due to standing water over wellhead

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 18 - Air Sparge (A/S) Wells / System Operation

A/S Well: AS-5

	Manifold	Wellhead	
Parameter:	Well Pressure	Well Pressure	Flow Rate
Units:	(psi)	(psi)	(scfm)
Date			
05/29/09	8	7.9	5
06/23/09	8.93	8.42	3
07/29/09	8.92	8.7	3.2
08/28/09	8.65	8.5	2
09/23/09	8.45	8.39	0
10/28/09	8.28	8.22	0
11/27/09	8.95	8.85	0
12/23/09	10+	8.29	1.5
01/28/10	8.47	8.44	0
02/25/10	8.51	8.5	0
03/23/10	8.59	8.57	0
04/29/10	9.96	9.64	3
05/27/10	8.96	8.8	0
06/22/10	8.84	8.79	0
07/28/10	10+	8.84	0
08/27/10	Blower faulty. System deactivated.		
10/28/10	8.55	8.43	0
11/19/10	10	8.88	0
12/27/10	9.3	8.97	3
02/02/11	10+	9.02	3.3
03/01/11	8.98	8.14	2.5
03/29/11	10+	8.96	4
04/27/11	10+	8.8	3.5
05/25/11	10+	NA	4.5
08/30/11	OFF		
09/26/11	OFF		
10/27/11	11.61	11.3	3
11/28/11	10+	10+	0
12/29/11	11.1	11.1	0
01/26/12	12.52	12.5	0.5
02/21/12	10+	10+	0.5
03/29/12	11.77	11.32	0.5
04/28/12	11.63	11.62	1
05/31/12	OFF	OFF	OFF
06/28/12	OFF	OFF	OFF
07/31/12	10+	10+	7
08/31/12	--	--	--
09/27/12	10+	10+	5
10/30/12	10+	10+	2.5
12/01/12	Needs Vanes & Filters		
02/01/13	10+	10+	2
02/28/13	Off Cycling		
03/26/13	Off Cycling		
04/26/13	10+	10+	0.5
05/30/13	--	--	--
06/27/13	--	--	--
08/01/13	10+	10+	*--
08/31/13	--	--	--
09/27/13	10+	10+	*--
10/29/13	10+	10+	0.5
12/02/13	--	--	--
01/31/14	10+	--	--
02/26/14	8.27	7.7	6.25
04/30/14	8.99	7.55	10
08/01/14	8.24	7.31	8
10/29/14	8.51	7.25	9.4
01/23/15	7.85	6.99	8
04/30/15	8.25	7.06	9.3
07/28/15	7.96	6.86	8.2
10/29/15	8.49	6.92	10.5
01/29/16	8.55	7.04	10.5
02/18/16	System deactivated for rebound		
10/28/16	10+	9.94	10.2
01/30/17	10+	10+	10
04/27/17	8.75	6.91	11.5
08/01/17	Broken wellhead		
10/28/17	No Gauge	7.12	Broken

Unable to collect wellhead pressure reading due to standing water over wellhead

* Flowmeter broken

Quarterly Monitoring Report							
Facility Name: Former Agra CCC/USDA				Project #: 1491			
Section 18 - Air Sparge (A/S) Wells / System Operation							
Complete A/S System (If applicable)							
	System		Bleed-Off	Pre	Post	Operation Time	
Parameter:	Pressure	Flow Rate	Valve	Air Temp.	Air Temp.	Continuous	Cycling
Units:	(psi)	(scfm)	(%) Open	(Deg. F)	(Deg. F)	(Hours)	(Hours)
Date							
05/29/09	8	20	Closed	--	--		
06/23/09	10.8	18.2	Closed	148	--		591.7
07/29/09	11.4	17.2	Closed	129	--		1111.1
08/28/09	11	20	Closed	--	--		1112.1
09/23/09	11.3	14.5	Closed	128	--		1112.1
10/28/09	11.4	13.7	Closed	113	--		1112.2
11/27/09	12	12.9	Closed	119	--		1112.2
12/23/09	14	17.5	Closed	113	--		1112.2
01/28/10	21.7	18.4	Closed	91	--		175.7
02/25/10	12	17.2	Closed	101	--		507.5
03/23/10	11.6	16.3	Closed	116	--		813
04/29/10	12.7	15	Closed	134	--		1261.1
05/27/10	11.4	14.6	Closed	139	--		1938.6
06/22/10	11.4	14.4	Closed	135	--		2556.5
07/26/10	11.1	13.8	Closed	147	--		3421.3
08/27/10	Blower faulty. System deactivated.						3954.2
10/28/10	10.8	18.2	Closed	124	--		4478.4
11/19/10	10.4	15.4	Closed	119	--		5010.7
12/27/10	11	15.5	Closed	110	--		5921.1
02/02/11	10.8	14	Closed	109	--		6808.4
03/01/11	10	16.5	Closed	120	--		7456.5
03/29/11	11.1	17	Closed	111	--		7770.2
04/27/11	11.1	15.8	Closed	122	--		8467.3
05/25/11	11.9	13.3	Closed	124	--		9138.8
08/30/11	OFF						
09/26/11	OFF						
10/27/11	13	16	Closed	126	--		9644.7
11/28/11	13.5	16	Closed	120	--		10407.5
12/29/11	11	16	Closed	120	--		11155.5
01/26/12	14	12.5	Closed	104	--		11824.4
02/21/12	14	10.2	Closed	111	--		12448.6
03/29/12	13	11	Closed	120	--		13336.4
04/26/12	13	12.5	Closed	127	--		14000.7
05/31/12	16	7	Closed	110	--		14642.9
06/28/12	18	15	Closed	150	--		15313.4
07/31/12	16	16	Closed	140	--		16105.7
08/31/12	19.9	13	Closed	139	--		16849.7
09/27/12	20	11.5	Closed	118	--		17498.6
10/30/12	20	10	Closed	110	--		18288.7
12/01/12	Needs Vanes & Filters						
02/01/13	13.5	20.4	Closed	107	--		18671.6
02/28/13	20	14	Closed	106	--		19317.5
03/26/13	21	10	Closed	100	--		19939.9
04/26/13	21	6	Closed	112	--		20687.2
05/30/13	21.5	7.5	Closed	120	--		21499.8
06/27/13	19	8	Closed	130	--		22171.8
08/01/13	19	8	Closed	106	--		23014.5
08/31/13	20	9	Closed	--	--		23706.2
09/27/13	21	7.8	Closed	122	--		24378.7
10/29/13	18.5	11.9	Closed	104	--		25148
12/02/13	15	12	Closed	110	--		25963.7
12/28/13	18.5	7.5	Closed	100	--		26587.8
01/31/14	19	17	Closed	79	--		27405.9
02/26/14	17	17	Closed	82	--		28027.3
03/27/14	17.9	13	Closed	84	--		28723.8
04/30/14	18.2	13.1	Closed	108	--		29538.2
05/27/14	18.5	11.9	Closed	133	--		30187.8
06/26/14	17	11.7	Closed	181	--		30896.1
08/01/14	16.1	11.7	Closed	131	--		31765.9
08/28/14	16.7	16	Closed	133	--		32412.5
09/29/14	16	16	Closed	129	--		33178.4
10/29/14	16.2	16.1	Closed	99	--		33899.2
11/26/14	14.4	16	Closed	85	--		34569.1
12/31/14	14.3	14.1	Closed	94	--		35412.3
01/23/15	13.5	13.4	Closed	102	--		35964.8
02/27/15	16.5	16.9	Closed	91	--		36798.5
04/01/15	15.5	14.8	Closed	116	--		37589.3
04/30/15	15.2	14.4	Closed	111	--		38288.9
05/30/15	15.5	14.3	Closed	112	--		39005.6
06/29/15	14.3	13.9	Closed	115	--		39725
07/28/15	14.2	14.2	Closed	123	--		40425.1
		Continued					

12/22/09 ASP set to run 4hours on 4 hours off.

Quarterly Monitoring Report							
Facility Name: Former Agra CCC/USDA				Project #: 1491			
Section 18 - Air Sparge (A/S) Wells / System Operation							
Complete A/S System (If applicable)							
	System		Bleed-Off	Pre	Post	Operation Time	
Parameter:	Pressure	Flow Rate	Valve	Air Temp.	Air Temp.	Continuous	Cycling
Units:	(psi)	(scfm)	(%) Open	(Deg. F)	(Deg. F)	(Hours)	(Hours)
Date							
08/27/15	18	15.7	Closed	129	--		41141.3
09/29/15	17	15.1	Closed	119	--		41933.8
10/29/15	17	14.6	Closed	111	--		42656.4
12/01/15	15	13.7	Closed	91	--		43448.8
01/02/16	16.5	11.2	Closed	96	--		44214.4
01/29/16	15.5	11.3	Closed	99	--		44863.9
02/18/16	System deactivated for rebound						
09/29/16	17	11.5	Closed	105	--		45554.9
10/28/16	16.2	11.5	Closed	118	--		46251.8
11/29/16	19.8	12.2	Closed	124	--		47017.9
12/29/16	20	11.6	Closed	127	--		47738.5
01/30/17	18	11.7	Closed	101	--		48507.2
02/23/17	18.7	11	Closed	115	--		49080.5
04/03/17	17	10	Closed	111	--		49977.7
04/27/17	19.3	11.5	Closed	106	--		50556.2
05/30/17	17.8	11.3	Closed	109	--		51345.9
06/28/17	17.5	11	Closed	133	--		52042.6
08/01/17	16	10.8	Closed	125	--		52858.4
08/24/17	16	9.8	Closed	122	--		53407.6
09/28/17	14.5	9	Closed	109	--		54247.3
10/28/17	13	15.7	Closed	100	--		54966.8

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 19 - SVE Well/Unit Vacuum Extraction Flow Rates & Totalizer / Analyzer Readings														
Well # / Unit #	Date	05/29/09	06/23/09	07/29/09	08/28/09	09/23/09	10/28/09	11/27/09	12/23/09	01/28/10	02/25/10	03/23/10	04/29/10	
SV-1 Manifold Vacuum ("H2O)		34.6	34	30.2	29	27	25.7	26.3	18.2	27	30.7	29.5	32.3	
SV-1 Wellhead Vacuum ("H2O)		34.6	31.6	28.2	26	24.6	22.9	24	16	24.3	23.2	28.4	30.6	
SV-1 Direct Read Flow Rate (CFM)		<40	66	36	30	60	40	35	38	56	39	47	51	
SV-2 Manifold Vacuum ("H2O)		32.8	34.6	31.8	30.7	29.2	29.1	29.6	26.1	30.1	34.9	31.3	31.1	
SV-2 Wellhead Vacuum ("H2O)		31.1	32.9	29.3	27.5	26.7	25.4	27.9	22.5	29.8	31.8	28.9	29.4	
SV-2 Direct Read Flow Rate (CFM)		<40	59	37	40	62	23	78	30	21	45	58	71	
SV-3 Manifold Vacuum ("H2O)		31.5	31.6	28.2	26.6	26.1	26.9	28.3	24.4	29.5	34.2	25.7	28.9	
SV-3 Wellhead Vacuum ("H2O)		29.7	38.9	24.7	23.8	23.1	24	26	19	27.9	26.6	23.4	25.9	
SV-3 Direct Read Flow Rate (CFM)		<40	77	45	40	61	27	89	38	19	36	42	35	
SV-4 Manifold Vacuum ("H2O)		29.2	29.1	26.9	26.6	24.6	24.9	25.5	22.2	26.8	31.9	24.2	19.7	
SV-4 Wellhead Vacuum ("H2O)		28.2	25.6	23.1	21.6	21.4	21.5	22.7	18.3	21.8	27.8	20.2	17.3	
SV-4 Direct Read Flow Rate (CFM)		50	47	48	50	45	42	43	45	44	47	42	35	
SV-5 Manifold Vacuum ("H2O)		34.8	33.5	29.4	28.7	26.1	26	25.8	19.2	28.9	33.6	27	20.8	
SV-5 Wellhead Vacuum ("H2O)		34.4	31.3	26.9	25.1	23.4	23.4	22.7	17.5	26.5	30.6	22.4	19.7	
SV-5 Direct Read Flow Rate (CFM)		<40	63	33	30	40	44	42	41	14	31	40	35	
Pre KO Tank Vacuum ("H2O)		46	42.9	40.5	39.4	38.9	38.4	38.9	36	39.8	45	40.1	41.4	
Before Filter ("H2O)		46	48	45	44	43	43	42	39	43	48	43	45	
After Filter ("H2O)		54	56	53	50	52	51	50	48	53	56	52	55	
Dilution Valve (% Open)		Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	
Cumulative Direct Read Flow Rate (scfm)		210	312	199	190	268	176	287	192	154	198	229	227	
K.O. Tank -Gallons Drained Meter Reading		0	0	0	0	0	0	Drained	Drained	Drained	Drained	Drained	0	

Quarterly Monitoring Report

Project #: 1491

Project #: 1491

[illegible]

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Quarterly Monitoring Report

Project #: 1491

[illegible]

Project #: 1491

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

[illegible]

Quarterly Monitoring Report													
Facility Name: Former Agra CCC/USDA										Project #: 1491			
Section 19 - SVE Well/Unit Vacuum Extraction Flow Rates & Totalizer / Analyzer Readings													
Date	07/28/15	08/27/15	09/29/15	10/29/15	12/01/15	01/02/16	01/29/16	04/29/16	09/29/16	10/28/16	11/29/16	12/29/16	
Well # / Unit #													
SV-1 Manifold Vacuum ("H2O)	9.6	8.5	8.1	7.5	7.8	10.3	9.7	System deactivated for rebound 2/18/16	12.8	11.6	11.8	12.3	
SV-1 Wellhead Vacuum ("H2O)	5.6	4.5	4.1	3.3	3.2	5.3	7.1		6	5.4	4.9	4.6	
SV-1 Direct Read Flow Rate (CFM)	50	50	50	50	55	50	40		55	55	55	55	
SV-2 Manifold Vacuum ("H2O)	9.6	8.6	8	7.4	8.3	8.5	11.2		12.3	11.3	11.8	12.3	
SV-2 Wellhead Vacuum ("H2O)	5.7	4.7	4	3.4	3.5	4.3	6.8		5.8	5.1	3.8	5.4	
SV-2 Direct Read Flow Rate (CFM)	50	50	50	50	50	50	50		55	55	55	55	
SV-3 Manifold Vacuum ("H2O)	20.2	11.9	11.2	11.1	12.1	10.1	12.8		24	21.8	21.4	21.1	
SV-3 Wellhead Vacuum ("H2O)	11.9	7.3	6.2	5.9	5.9	5.9	8.7		13.9	12.3	10.8	11	
SV-3 Direct Read Flow Rate (CFM)	73	50	53	54	55	50	50		65	65	65	55	
SV-4 Manifold Vacuum ("H2O)	28.8	-	-	15.2	-	-	10.5		-	18.3	-	-	
SV-4 Wellhead Vacuum ("H2O)	16.1	-	-	8.5	-	-	6.3		-	9.6	-	-	
SV-4 Direct Read Flow Rate (CFM)	89	-	-	70	-	-	55		-	60	-	-	
SV-5 Manifold Vacuum ("H2O)	26.7	-	-	14.9	-	-	11.2		-	21.1	-	-	
SV-5 Wellhead Vacuum ("H2O)	13	-	-	6.6	-	-	5.9		-	10.3	-	-	
SV-5 Direct Read Flow Rate (CFM)	94	-	-	70	-	-	55		-	65	-	-	
Pre KO Tank Vacuum ("H2O)	47.4	31.4	30.7	31	32.7	32.6	38.3		66.4	64.6	65	76.7	
Before Filter ("H2O)	58	41	42	41	43	46	49		-	-	-	-	
After Filter ("H2O)	64	47	49	49	52	54	56		74	66	-	89.7	
Dilution Valve (% Open)	Closed	Closed	Closed	Closed	Closed	Closed	Closed		Closed	Closed	Closed	Closed	
Cumulative Direct Read Flow Rate (scfm)	173	150	153	154	160	150	140		175	175	175	165	
K.O. Tank -Gallons Drained Meter Reading	0	0	0	0	0	0	0		0	0	0	0	

Quarterly Monitoring Report

Project #: 1491

[illegible]

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 20 - Operation & Maintenance Cost vs. Time

Date	1/16	4/16	7/16	10/16	1/17	4/17	8/17	10/17
Period Cost	\$5,055.00	\$1,447.50	\$1,472.50	\$4,205.00	\$5,055.00	\$5,055.00	\$5,055.00	\$5,055.00
Cumulative Cost	\$112,746.00	\$114,193.50	\$115,666.00	\$119,871.00	\$124,926.00	\$129,981.00	\$135,036.00	\$140,091.00

Date								
Period Cost								
Cumulative Cost								

OM&M Costs

Quarterly Monitoring ReportFacility Name: Former Agra CCC/USDAProject #: 1491**Section 21 - Permits**

Permit	Permit #	Original Application Date	Renewal Date
Class V Injection Well (BOW)		Granted 5/22/2009	
Flushmount Waiver		Granted 5/29/2009	
Landfarm		Granted 10/16/2008	
Notification of Soil Vapor Extraction	Recognition Letter	Received 1/21/2009	

Quarterly Monitoring Report		
Facility Name: Former Agra CCC/USDA		
Project #: 1491		
Section 22 - System Operation Time (hours)		
Date	SVE #1	A/S #1
	Start-up	Tested ASP
05/29/09	NR	NR
06/23/09	600.6	591.7
07/29/09	1445.6	1111.1
08/28/09	2121.5	1112.1
*9/23/2009	2211.2	1112.1
*10/28/2009	2221.1	1112.2
*11/27/2009	2221.1	1112.2
12/23/09	2221.2	1112.2
01/28/10	357.4	175.7
02/25/10	1030	507
03/23/10	1652.6	813
04/29/10	2539.1	1261.1
05/27/10	3216.6	1938.6
06/22/10	3834.5	2556.5
07/28/10	4699.3	3421.3
08/27/10	5420.7	3954.2
09/28/10	6189.1	3954.2
10/28/10	6905.8	4478.4
11/19/10	7438.3	5010.7
12/27/10	8348.7	5921.1
02/02/11	9236	6808.4
03/01/11	9884.1	7456.5
03/29/11	10552.7	7770.2
04/27/11	11249.8	8467.3
05/25/11	11921.6	9138.8
08/30/11	14246.5	9138.9
09/26/11	14894.1	9138.9
10/27/11	15638.1	9644.7
11/28/11	16405.5	10407.5
	Continued	
Total Oper. Hrs. for Rept. Period	--	--
Potential Oper. Hrs for Quarter	--	--

*Bad Hour meter SVE and ASP

Quarterly Monitoring Report

Facility Name: Former Agra CCC/USDA

Project #: 1491

Section 22 - System Operation Time (hours)

Date	SVE #1	A/S #1
	Start-up	Tested ASP
12/29/11	17153.5	11155.5
01/26/12	17822.8	11824.4
02/21/12	18446.9	12448.6
03/29/12	19334.7	13336.4
04/26/12	20005.5	14000.7
05/31/12	20820.2	14642.9
06/28/12	21490.7	15313.4
07/31/12	22283.2	16105.7
08/31/12	23027.2	16849.7
09/27/12	23676.1	17498.6
10/30/12	24466.2	18288.7
12/01/12	25235.3	18288.9
12/28/12	25881.9	18288.9
02/01/13	26724.4	18671.6
02/28/13	27370.3	19317.5
03/26/13	27992.7	19939.9
04/26/13	28740.4	20687.2
05/30/13	29553.1	21499.8
06/27/13	30225	22171.8
08/01/13	31067.8	23014.5
08/30/13	31759.5	23706.2
09/27/13	32431.9	24378.7
10/29/13	33201.2	25148
12/02/13	34016.9	25963.7
12/28/13	34641	26587.8
01/31/14	35459.1	27405.9
02/26/14	36080.5	28027.3
03/27/14	36777	28723.8
04/30/14	37591.4	29538.2
05/27/14	38241	30187.8
06/26/14	38949.2	30896.1
08/01/14	39819	31765.9
08/28/14	40465.6	32412.5
09/29/14	41231.5	33178.4
10/29/14	41952.3	33899.2
11/26/14	42622.2	34569.1
12/31/14	43465.4	35412.3
01/23/15	44017.9	35964.8
	Continued	
Total Oper. Hrs. for Rept. Period	0	0
Potential Oper. Hrs for Quarter	0	0

*Bad Hour meter SVE and ASP

Quarterly Monitoring ReportFacility Name: Former Agra CCC/USDAProject #: 1491**Section 22 - System Operation Time (hours)**

Date	SVE #1	A/S #1
2/27/2015	44851.5	36798.5
04/01/15	45642.3	37589.3
04/30/15	46342	38288.9
05/30/15	47058.7	39005.6
06/29/15	47778	39725
07/28/15	48478.1	40425.1
08/27/15	49194.4	41141.3
09/29/15	49986.8	41933.8
10/29/15	50709.4	42656.4
12/01/15	51501.7	43448.8
01/02/16	52267.4	44214.4
01/29/16	52916.9	44863.9
02/18/16	System deactivated for rebound	
04/29/16	NR	NR
09/29/16	53607.9	45554.9
10/28/16	54304.9	46251.8
11/29/16	55071	47017.9
12/29/16	55791.6	47738.5
01/30/17	56560.3	48507.2
02/23/17	57133.6	49080.5
04/03/17	58030.8	49977.7
04/27/17	58609.3	50556.2
05/30/17	59399	51345.9
06/28/17	60095.6	52042.6
08/01/17	60911.5	52858.4
08/24/17	61460.6	53407.6
09/28/17	62301	54247.3
10/28/17	63020.5	54966.8
Total Oper. Hrs. for Rept. Period	2109	2108.4
Potential Oper. Hrs for Quarter	2112	2112

*Bad Hour meter SVE and ASP

⊕ MONITORING WELL
● 2005 INVESTIGATION LOCATION
⊕ CCC/USDA MONITORING WELL
⊗ LDB LOCATION

0 50' 100'

SCALE: 1" = 50'

GEOCORE INC. P.O. BOX 386 (785) 826-1616 SALINA, KANSAS	
REMEDIAL SITE MAP	GEOCORE PROJECT NO. 1491
SITE: FORMER CCC / USDA	DATE: 07/15/09
LOCATION: AGRA, KANSAS	SCALE: N/A
ADDRESS: RAILROAD AVENUE & MAIN STREET	DRAWING #: 5.1.1
CLIENT: GREENFIELD CONTRACTORS, INC.	DRAFTER: DCM
LEGAL: SW, SE, NW	KDHE#: C6 074 00002
SEC 27, T3S, R16W	AGRA.DWG

- MONITORING WELL
- 2005 INVESTIGATION LOCATION
- ⊕ CCC/USDA MONITORING WELL
- ⊗ LDB LOCATION
- 123.4 CARBON TETRACHLORIDE (ppb)

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 2
CARBON TETRACHLORIDE IN GROUNDWATER
SAMPLED: 10/28/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

SB45

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

⊕GW4 4.2

SB46

SB68

⊕LDB5
SVE-5/AS-5⊕LDB4
SVE-4/AS-4SVE-3/AS-3
⊕LDB3

⊕GW2

⊕GW3

11.2

6.3 ⊕GW1

⊕LDB2
SVE-2/AS-2⊕LDB1
SVE-1/AS-1

MW-P

SB49

⊕GW5

MW-J

- ⊕ MONITORING WELL
- 2005 INVESTIGATION LOCATION
- ⊕ CCC/USDA MONITORING WELL
- ⊕ LDB LOCATION
- 123.4 CHLOROFORM (ppb)

0 20' 40'

SCALE: 1" = 20'

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 34
CHLOROFORM IN GROUNDWATER
SAMPLED: 10/28/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

SB43

SB69

ND
⊕ GW4

● SB45

● SB46

● SB68

REMEDIAL TRAILER
APPROXIMATELY 377 FT.
WEST

LDB4
SVE-4/AS-4

LDB5
SVE-5/AS-5

SVE-3/AS-3
LDB3

⊕ GW2

ND
⊕ GW1

GW3 ⊕
ND

LDB2
SVE-2/AS-2

LDB1
SVE-1/AS-1

MW-P ⊕

● SB49

⊕ GW5

MW-J ⊕

⊕ MONITORING WELL
● 2005 INVESTIGATION LOCATION
⊕ CCC/USDA MONITORING WELL
⊕ LDB LOCATION
123.4 1,2 DCA (ppb)

0 20' 40'
SCALE: 1" = 20'

GEOCORE INC.

P.O. BOX 386

(785) 826-1616

SALINA, KANSAS

FIGURE 4a
1,2 DCA IN GROUNDWATER
SAMPLED: 10/28/17

GEOCORE PROJECT
NO. 1491

SITE: FORMER CCC / USDA

DATE: 07/15/09

LOCATION: AGRA, KANSAS

SCALE: N/A

ADDRESS: RAILROAD AVENUE & MAIN STREET

DRAWING #: NA

CLIENT: GREENFIELD CONTRACTORS, INC.

DRAFTER: JAM

LEGAL: SW, SE, NW

KDHE#: C6 074 00002

SEC 27, T3S, R16W

AGRA.DWG

APPENDIX 1

LABORATORY INFORMATION

Technical Report for

GeoCore, Inc.-Remediation
AGRA CCC/USDA, Agra, KS
1491

SGS Accutest Job Number: FA49096

Sampling Date: 11/02/17

Report to:

GeoCore, Inc
2775 Arnold Ave Suite D
Salina, KS 67401
jlaird@geocore.net; dcorl@geocore.net
ATTN: Dave Corl

Total number of pages in report: 17

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (233510), LA (09051), KS (E-10327), IL (200003), NC (573), NJ (FL002), NY (L2022), SC (86038001)
DoD ELAP (A-B L2229), AZ (AZ0808), CA (2337), TX (T10470404), PA (68-08573), VA (60177),
AK, AR, CA, IA, KY, MA, NV, OK, OR, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Sections:

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: FA49096-1: GW-1	6
3.2: FA49096-2: GW-4	7
Section 4: Misc. Forms	8
4.1: Chain of Custody	9
Section 5: MS Volatiles - QC Data Summaries	11
5.1: Method Blank Summary	12
5.2: Blank Spike Summary	14
5.3: Matrix Spike/Matrix Spike Duplicate Summary	16

Summary of Hits
 Job Number: FA49096
 Account: GeoCore, Inc-Remediation
 Project: AGRA CCC/USDA, Agra, KS
 Collected: 11/02/17

Sample Summary

GeoCore, Inc-Remediation
 AGRA CCC/USDA, Agra, KS
 Project No: 1491
 Job No: FA49096

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
FA49096-1	11/02/17	10:55 TD	AQ	Ground Water	GW-1
FA49096-2	11/02/17	11:20 TD	AQ	Ground Water	GW-1

Lab Sample ID	Client Sample ID	Result/Qual	RL	MDL	Units	Method
FA49096-1	GW-1					
Carbon Tetrachloride ^a		52.5	1.0		ug/l	SW846 8260B
Chloroform ^a		6.3	1.0		ug/l	SW846 8260B
FA49096-2	GW-1					
Carbon Tetrachloride		150	10		ug/l	SW846 8260B
Chloroform ^a		4.2	1.0		ug/l	SW846 8260B

(a) Sample vial(s) contained bubbles greater than 6mm. Sample was not preserved to a pH < 2; reported results are considered minimum values.

Sample Results

Report of Analysis

Client Sample ID:	GW-1	Date Sampled:	11/02/17
Lab Sample ID:	FA49096-1	Date Received:	11/04/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	ACRA CCC/USDA, Agra, KS		

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 a	1A08337.D	1	11/09/17 12:17 SP	n/a	n/a	V1A306
Run #2 b	1A08325.D	10	11/08/17 19:20 SP	n/a	n/a	V1A305

Purge Volume	
Run #1	5.0 ml
Run #2	5.0 ml

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	52.5	1.0	ug/l	
67-66-3	Chloroform	6.3	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1888-53-7	Dibromofluoromethane	100%	97%	83-118%	
17060-07-0	1,2-Dichloroethane-D4	102%	102%	79-125%	
2037-28-5	Toluene-D8	107%	108%	85-112%	
480-00-4	4-Bromofluorobenzene	104%	108%	83-118%	

(a) Sample vial(s) contained bubbles greater than 6mm. Sample was not preserved to a pH < 2; reported results are considered minimum values.

(b) Confirmation run.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.2

Client Sample ID:	GW-4	Date Sampled:	11/02/17
Lab Sample ID:	FA49096-2	Date Received:	11/04/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AGRA CCC/USDA, Agra, KS		

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A08338.D	1	11/09/17 12:38	SP	n/a	V1A306
Run #2	1A08326.D	10	11/08/17 19:42	SP	n/a	V1A305

Purge Volume	
Run #1	5.0 ml
Run #2	5.0 ml

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	150 b	10	ug/l	
67-66-3	Chloroform	4.2	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	101%	98%	83-118%	
17060-07-0	1,2-Dichloroethane-D4	100%	102%	79-125%	
2037-26-5	Toluene-D8	106%	108%	85-112%	
460-00-4	4-Bromofluorobenzene	105%	108%	83-118%	

(a) Sample vial(s) contained bubbles greater than 6mm. Sample was not preserved to a pH < 2; reported results are considered minimum values.

(b) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS

ACCUTEST
Southeast

Section 4

4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Section 5

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA49096
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	By	Analyzed	Prep Date	Prep Batch	Analytical Batch
VIA305-MB	1A08305.D	1	SP	11/08/17	n/a	n/a	VIA305

The QC reported here applies to the following samples:

FA49096-2

Method: SW846 8260B

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries				Limits
1868-53-7	Dibromofluoromethane	97%			83-118%
17060-07-0	1,2-Dichloroethane-D4	100%			79-125%
2037-26-5	Toluene-D8	107%			85-112%
460-00-4	4-Bromofluorobenzene	106%			83-118%

Method Blank Summary

Job Number: FA49096
 Account: GCOREKSR GeoCore, Inc.-Remediation
 Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	By	Analyzed	Prep Date	Prep Batch	Analytical Batch
VIA306-MB	1A08334.D	1	SP	11/09/17	n/a	n/a	VIA306

The QC reported here applies to the following samples:

FA49096-1, FA49096-2

Method: SW846 8260B

5.1.2 5

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Limits			
1868-53-7	Dibromofluoromethane	96%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%	
2037-26-5	Toluene-D8	107%		85-112%	
460-00-4	4-Bromofluorobenzene	105%		83-118%	

Blank Spike Summary

Job Number: FA49096
 Account: GCOREKSR GeoCore, Inc.-Remediation
 Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	By	Analyzed	Prep Date	Prep Batch	Analytical Batch
VIA305-BS	1A08306.D	1	SP	11/08/17	n/a	n/a	VIA305

The QC reported here applies to the following samples:

FA49096-2

Method: SW846 8260B

5.2.1 5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	25	26.0	104%	76-136
CAS No.	Surrogate Recoveries	Limits			
1868-53-7	Dibromofluoromethane	101%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%	
2037-26-5	Toluene-D8	101%		85-112%	
460-00-4	4-Bromofluorobenzene	101%		83-118%	

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA49096
 Account: GCOREKSR GeoCore, Inc.-Remediation
 Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VIA306-BS	1A08335.D	1	11/09/17	SP	n/a	n/a	VIA306

5.2.2

5

The QC reported here applies to the following samples:

Method: SW846 8260B

FA49096-1, FA49096-2

CAS No.	Compound	Spike ug/l	BSP ug/l	%	Limits
56-23-5	Carbon Tetrachloride	25	26.3	105	76-136
67-66-3	Chloroform	25	26.0	104	80-124
107-06-2	1,2-Dichloroethane	25	25.4	102	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA49096
 Account: GCOREKSR GeoCore, Inc.-Remediation
 Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA49028-6MS	1A08327.D	10	11/08/17	SP	n/a	n/a	VIA305
FA49028-6MSD	1A08328.D	10	11/08/17	SP	n/a	n/a	VIA305
FA49028-6	1A08311.D	10	11/08/17	SP	n/a	n/a	VIA305

5.3.1

5

The QC reported here applies to the following samples:

Method: SW846 8260B

FA49096-2

CAS No.	Compound	FA49028-6 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	ND	250	252	101%	250	245	98%	76-136/23

CAS No.	Surrogate Recoveries	MS	MSD	FA49028-6	Limits
1868-53-7	Dibromofluoromethane	100%	100%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	100%	79-125%
2037-26-5	Toluene-D8	100%	100%	107%	85-112%
460-00-4	4-Bromofluorobenzene	102%	102%	106%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA49096
 Account: GOREKSR GeoCore, Inc.-Remediation
 Project: AGRA CCC/USDA, Agrn, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA49102-17MS	IA08357.D	1000	11/09/17	SP	n/a	n/a	V1A306
FA49102-17MSD	IA08358.D	1000	11/09/17	SP	n/a	n/a	V1A306
FA49102-17	IA08350.D	1000	11/09/17	SP	n/a	n/a	V1A306
FA49102-17	IA08360.D	2000	11/09/17	SP	n/a	n/a	V1A306

The QC reported here applies to the following samples: Method: SW846 8260B

FA49096-1, FA49096-2

CAS No.	Compound	FA49102-17 Spike ug/l	Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	ND	25000	26300	105	25000	26200	105	0	76-136/23
67-66-3	Chloroform	ND	25000	25900	104	25000	25800	103	0	80-124/15
107-06-2	1,2-Dichloroethane	ND	25000	25700	103	25000	25600	102	0	75-125/14
CAS No.	Surrogate Recoveries	MS	MSD	FA49102-17	FA49102-17	Limits				
1868-53-7	Dibromofluoromethane	102%	101%	96%	96%	83-118%				
17060-07-0	1,2-Dichloroethane-D4	103%	101%	102%	103%	79-125%				
2037-26-5	Toluene-D8	100%	99%	105%	106%	85-112%				
460-00-4	4-Bromofluorobenzene	101%	103%	107%	107%	83-118%				

* = Outside of Control Limits.

Technical Report for

GeoCore, Inc.-Remediation

AGRA CCC/USDA, Agra, KS

1491

SGS Accutest Job Number: FA48923

Sampling Date: 10/28/17

Report to:

GeoCore, Inc
2775 Arnold Ave Suite D
Salina, KS 67401
jlaird@geocore.net; dcorl@geocore.net

ATTN: Dave Corl

Total number of pages in report: 13

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Sue Bell 407-425-6700

Certifications: FL030510, LA030510, KS0510327, IL0300053, NC0573, NJ051002, NY03022, SC06038001
DOD ELAP/A-B L2229, AZ020806, CA02537, TX01070404, PA0803573, VA060177, AK, AR, GA, IA, KY, MA, NV, OR, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Sections:

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: FA48923-1: GW-3	6
Section 4: Misc. Forms	7
4.1: Chain of Custody	8
Section 5: MS Volatiles - QC Data Summaries	10
5.1: Method Blank Summary	11
5.2: Blank Spike Summary	12
5.3: Matrix Spike/Matrix Spike Duplicate Summary	13

Summary of Hits

Job Number: FA48923
Account: GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS
Collected: 10/28/17

Sample Summary

GeoCore, Inc.-Remediation
AGRA CCC/USDA, Agra, KS
Project No: 1491
Job No: FA48923

Sample Number	Collected Date	Time By	Matrix	Received Code	Type	Client Sample ID	
10/28/17 12:50	10/28/17	12:50	TD	10/31/17	AQ	Ground Water	GW-3
10/28/17 12:00	10/28/17	12:00	TD	10/31/17	AQ	Ground Water	GW-1
10/28/17 12:25	10/28/17	12:25	TD	10/31/17	AQ	Ground Water	GW-4

Lab Sample ID	Analyte	Client Sample ID	Result/Qual	RL	MDL	Units	Method
FA48923-1	Carbon Tetrachloride	GW-3	930	10		ug/l	SW846 8260B
	Chloroform		11.2	10		ug/l	SW846 8260B

(a) Sample was not preserved to a pH < 2.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Page 1 of 1

3.1

3

Client Sample ID:	GW-3	Date Sampled:	10/28/17
Lab Sample ID:	FA48923-1	Date Received:	10/31/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AGRA CCC/USDA, Agra, KS		
File ID	DF	By	Prep Date
Run #1	J0987525.D	10	11/06/17 12:31 DP
Run #2			n/a
Analyzed		Prep Batch	Analytical Batch
		n/a	VJ5748

Purge Volume
Run #1 5.0 ml
Run #2

VOA SPECIAL LIST

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	930	10	ug/l	
67-66-3	Chloroform	11.2	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		83-118%	
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%	
2037-26-5	Toluene-D8	105%		85-112%	
460-00-4	4-Bromofluorobenzene	102%		83-118%	

(a) Sample was not preserved to a pH < 2.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found to associated method blank
N = Indicates presumptive evidence of a compound

Method Blank Summary

Job Number: FA48923
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	By	Analyzed	Prep Date	Prep Batch	Analytical Batch
VJ5748-MB	J0987520.D	1	DP	11/06/17	n/a	n/a	VJ5748

The QC reported here applies to the following samples:

FA48923-1

Method: SW846 8260B

CAS No.	Compound	Result	RL	Units	Q
56-23-5	Carbon Tetrachloride	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Limits			
1868-53-7	Dibromofluoromethane	101%	83-118%		
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%		
2037-26-5	Toluene-D8	104%	85-112%		
460-00-4	4-Bromofluorobenzene	103%	83-118%		

* = Outside of Control Limits.

5.1.1

5

Blank Spike Summary

Job Number: FA48923
Account: GCOREKSR GeoCore, Inc.-Remediation
Project: AGRA CCC/USDA, Agra, KS

Page 1 of 1

Sample	File ID	DF	By	Analyzed	Prep Date	Prep Batch	Analytical Batch
VJ5748-BS	J0987519.D	1	DP	11/06/17	n/a	n/a	VJ5748

The QC reported here applies to the following samples:

FA48923-1

Method: SW846 8260B

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
56-23-5	Carbon Tetrachloride	25	24.6	98	76-136
67-66-3	Chloroform	25	23.6	94	80-124
107-06-2	1,2-Dichloroethane	25	23.5	94	75-125
CAS No.	Surrogate Recoveries	BSP	Limits		
1868-53-7	Dibromofluoromethane	99%	83-118%		
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%		
2037-26-5	Toluene-D8	104%	85-112%		
460-00-4	4-Bromofluorobenzene	104%	83-118%		

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA48923
 Account: GCORESR GeoCore, Inc.-Remediation
 Project: AGRA CCC/USDA, Agra, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA48850-2MS	J0987542.D	1	11/06/17	DP	n/a	n/a	VJ5748
FA48850-2MSD	J0987543.D	1	11/06/17	DP	n/a	n/a	VJ5748
FA48850-2	J0987527.D	1	11/06/17	DP	n/a	n/a	VJ5748

5.3.1

5

Method: SW846 8260B

The QC reported here applies to the following samples:

FA48923-1

CAS No.	Compound	FA48850-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	1.0 U	25	22.4	90	25	22.9	92	2	2	76-136/23
67-66-3	Chloroform	1.0 U	25	23.0	92	25	23.4	94	2	2	80-124/15
107-06-2	1,2-Dichloroethane	1.0 U	25	23.3	93	25	23.3	93	0	0	75-125/14
CAS No.	Surrogate Recoveries	MS	MSD	FA48850-2	Limits						
1868-53-7	Dibromofluoromethane	85%	98%	100%	83-118%						
17060-07-0	1,2-Dichloroethane-D4	95%	95%	103%	79-125%						
2037-26-5	Toluene-D8	102%	104%	102%	85-112%						
460-00-4	4-Bromofluorobenzene	104%	106%	101%	83-118%						

* = Outside of Control Limits.

Technical Report for

GeoCore, Inc.
Agra CCC/USDA
1491

SGS Accutest Job Number: JC54305

Sampling Date: 10/28/17

Report to:

GeoCore, Inc.
2775 Arnold Avenue P.O. Box 386
Salina, KS 67401
BOentrich@GeoCore.net; JLaird@GeoCore.net;
DCori@GeoCore.net
ATTN: Brad Oentrich

Total number of pages in report: 26

Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

Client Service contact: Rocus Peters 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC,
OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DND ELAP (L-A-B 12248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: JC54305-1: SVE-1	6
3.2: JC54305-2: SVE-2	7
3.3: JC54305-3: SVE-3	8
3.4: JC54305-4: SVE-4	9
3.5: JC54305-5: SVE-5	10
3.6: JC54305-6: SVE-MANIFOLD	11
Section 4: Misc. Forms	12
4.1: Chain of Custody	13
4.2: Summa Canister and Flow Controller Log	15
Section 5: MS Volatiles - QC Data Summaries	16
5.1: Method Blank Summary	17
5.2: Blank Spike/Blank Spike Duplicate Summary	19
5.3: Duplicate Summary	21
5.4: Summa Cleaning Certification	22
5.5: Instrument Performance Checks (BFB)	23
5.6: Surrogate Recovery Summaries	26

Summary of Hits

Job Number: JC54305
 Account: GeoCore, Inc.
 Project: Agra CCC/USDA
 Collected: 10/28/17

Sample Summary

GeoCore, Inc.
 Agra CCC/USDA
 Project No: 1491

Job No: JC54305

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
JC54305-1	10/28/17	11:00 TD	AIR	Soil Vapor Grab	SVE-1
JC54305-2	10/28/17	11:10 TD	AIR	Soil Vapor Grab	SVE-2
JC54305-3	10/28/17	11:20 TD	AIR	Soil Vapor Grab	SVE-3
JC54305-4	10/28/17	11:40 TD	AIR	Soil Vapor Grab	SVE-4
JC54305-5	10/28/17	10:50 TD	AIR	Soil Vapor Grab	SVE-5
JC54305-6	10/28/17	11:30 TD	AIR	Soil Vapor Grab	SVE-MANIFOLD

Lab Sample ID	Client Sample ID	Result/Qual	RL	MDL	Units	Method
JC54305-1	SVE-1					
Carbon tetrachloride		1.4	0.80	0.080	ppbv	TO-15
Carbon tetrachloride		8.8	5.0	0.50	ug/m3	TO-15
JC54305-2	SVE-2					
Carbon tetrachloride		1.2	0.80	0.080	ppbv	TO-15
Carbon tetrachloride		7.5	5.0	0.50	ug/m3	TO-15
JC54305-3	SVE-3					
Carbon tetrachloride		8.8	0.80	0.080	ppbv	TO-15
Carbon tetrachloride		55	5.0	0.50	ug/m3	TO-15
JC54305-4	SVE-4					
Carbon tetrachloride		2.2	0.80	0.080	ppbv	TO-15
Carbon tetrachloride		14	5.0	0.50	ug/m3	TO-15
JC54305-5	SVE-5					
Chloroform		0.68 J	0.80	0.12	ppbv	TO-15
Carbon tetrachloride		49.5	0.80	0.080	ppbv	TO-15
Chloroform		3.3 J	3.9	0.59	ug/m3	TO-15
Carbon tetrachloride		311	5.0	0.50	ug/m3	TO-15
JC54305-6	SVE-MANIFOLD					
Carbon tetrachloride		6.2	0.80	0.080	ppbv	TO-15
Carbon tetrachloride		39	5.0	0.50	ug/m3	TO-15

Client Sample ID: SVE-1
Lab Sample ID: JC54305-1
Matrix: AIR - Soil Vapor Grab
Method: TO-15
Project: Agra CCC/USDA
Summa ID: A393
Date Sampled: 10/28/17
Date Received: 10/31/17
Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W27654.D	1	11/03/17 17:42	TCH	n/a	n/a	V5W1087
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.80	0.12	ppbv		ND	3.9	0.59	ug/m3
56-23-5	153.8	Carbon tetrachloride	1.4	0.80	0.080	ppbv		8.8	5.0	0.50	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
CAS No.		Surrogate Recoveries	Run# 1	Run# 2	Limits						
460-00-4		4-Bromofluorobenzene	94%		65-128%						

Sample Results

Report of Analysis

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

MDL = Method Detection Limit
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.2

Client Sample ID:	SVE-2	Date Sampled:	10/28/17
Lab Sample ID:	JC54305-2	Date Received:	10/31/17
Matrix:	AIR - Soil Vapor Grab	Summa ID:	M429
Method:	TO-15	Percent Solids:	n/a
Project:	Agra CCC/USDA		
File ID	DF	Prep Date	Analytical Batch
Run #1	5W27656.D	1	V5W1087
Run #2			
Initial Volume			
Run #1	100 ml		
Run #2			

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.80	0.12	ppbv	ND	ND	3.9	0.59	ug/m3
56-23-5	153.8	Carbon tetrachloride	1.2	0.80	0.080	ppbv	7.5	ND	5.0	0.50	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv	ND	ND	3.2	0.45	ug/m3
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	94%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.3

Client Sample ID:	SVE-3	Date Sampled:	10/28/17
Lab Sample ID:	JC54305-3	Date Received:	10/31/17
Matrix:	AIR - Soil Vapor Grab	Summa ID:	A440
Method:	TO-15	Percent Solids:	n/a
Project:	Agra CCC/USDA		
File ID	DF	Prep Date	Analytical Batch
Run #1	5W27657.D	1	V5W1087
Run #2			
Initial Volume			
Run #1	100 ml		
Run #2			

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.80	0.12	ppbv	ND	ND	3.9	0.59	ug/m3
56-23-5	153.8	Carbon tetrachloride	8.8	0.80	0.080	ppbv	55	ND	5.0	0.50	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv	ND	ND	3.2	0.45	ug/m3
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	92%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.4

Client Sample ID:	SVE-4	Date Sampled:	10/28/17
Lab Sample ID:	JC54305-4	Date Received:	10/31/17
Matrix:	AIR - Soil Vapor Grab	Summa ID:	A389
Method:	TO-15	Percent Solids:	n/a
Project:	Agra CCC/USDA		
File ID	DF	By	Prep Date
Run #1	5W27658.D	11/03/17 20:45	TCH n/a
Run #2			

Initial Volume	
Run #1	100 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.80	0.12	ppbv	ND	ND	3.9	0.59	ug/m3
56-23-5	153.8	Carbon tetrachloride	2.2	0.80	0.080	ppbv	14	14	5.0	0.50	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv	ND	ND	3.2	0.45	ug/m3
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	91%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.5

Client Sample ID:	SVE-5	Date Sampled:	10/28/17
Lab Sample ID:	JC54305-5	Date Received:	10/31/17
Matrix:	AIR - Soil Vapor Grab	Summa ID:	A1108
Method:	TO-15	Percent Solids:	n/a
Project:	Agra CCC/USDA		
File ID	DF	By	Prep Date
Run #1	5W27659.D	11/03/17 21:30	TCH n/a
Run #2			

Initial Volume	
Run #1	100 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	0.88	0.80	0.12	ppbv	J	3.3	3.9	0.59	ug/m3
56-23-5	153.8	Carbon tetrachloride	49.5	0.80	0.080	ppbv	311	311	5.0	0.50	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv	ND	ND	3.2	0.45	ug/m3
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bromofluorobenzene	88%		65-128%							

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.6

Client Sample ID:	SVE-MANIFOLD	Date Sampled:	10/28/17			
Lab Sample ID:	JC54305-6	Date Received:	10/31/17			
Matrix:	AIR - Soil Vapor Grab	Summa ID:	A1150			
Method:	TO-15	Percent Solids:	n/a			
Project:	Agra CCC/USDA					
File ID	DF	Analyzed	By	Prep Date	Analytical Batch	
Run #1	5WZ7660.D	1	11/03/17 22:15	TCH	n/a	V5W1087
Run #2						

Initial Volume
Run #1 100 ml
Run #2

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-66-3	119.4	Chloroform	ND	0.80	0.12	ppbv		ND	3.9	0.59	ug/m3
56-23-5	153.8	Carbon tetrachloride	6.2	0.80	0.080	ppbv	39	39	5.0	0.50	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.11	ppbv		ND	3.2	0.45	ug/m3
CAS No.		Surrogate Recoveries	Run# 1	Run# 2	Limits						
460-00-4		4-Bromofluorobenzene	91%	91%	65-128%						

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS

ACCUTEST
New Jersey

Section 4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

Summa Canister and Flow Controller Log

Page 1 of 1

Job Number: JC54305
 Account: GCKSS GeoCore, Inc.
 Project: Agra CCC/USDA
 Received: 10/31/17

4.2

4

SUMMA CANISTERS									
Shipping					Receiving				
Summa ID	L	Vac "Hg	Date Out	By	SCC Batch	SCC Field	Sample Number	Date In	By
A393	1	29.4	10/23/17	PC	CP9410	5W27352.D	JC54305-1	10/31/17	AO
M429	1	29.4	10/23/17	PC	CP9410	5W27352.D	JC54305-2	10/31/17	AO
A440	1	29.4	10/23/17	PC	CP9410	5W27352.D	JC54305-3	10/31/17	AO
A389	1	29.4	10/23/17	PC	CP9410	5W27352.D	JC54305-4	10/31/17	AO
A1108	1	29.4	10/23/17	PC	CP9410	5W27352.D	JC54305-5	10/31/17	AO
A1150	1	29.4	10/23/17	PC	CP9410	5W27352.D	JC54305-6	10/31/17	AO

SGS Accutest Bottle Order(s):
 MJ-102017-20

Prep Date 10/23/17
 Room Temp(F) 70
 Bar Pres "Hg 29.92

SGS

ACCUTEST
 New Jersey

Section 5

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

5

Method Blank Summary

Page 1 of 1

Job Number: JC54305
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1087-MB	5W27653.D	1	11/03/17	TCH	n/a	n/a	V5W1087

5.1.1

5

The QC reported here applies to the following samples:

Method: TO-15

JC54305-1, JC54305-2, JC54305-3, JC54305-4, JC54305-5, JC54305-6

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.031	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.020	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv	ND	ND	0.81	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	65-128%

17 of 26
ACCUTEST
JC54305

SGS

Method Blank Summary

Page 1 of 1

Job Number: JC54305
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1075-MB	5W27330.D	1	10/18/17	TCH	n/a	n/a	V5W1075

5.1.2

5

The QC reported here applies to the following samples:

Method: TO-15

V5W1075-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.031	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.020	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv	ND	ND	0.81	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	65-128%

18 of 26
ACCUTEST
JC54305

SGS

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC54305
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1087-BS	5W27649.D	1	11/03/17	TCH	n/a	n/a	V5W1087
V5W1087-ESD	5W27651.D	1	11/03/17	TCH	n/a	n/a	V5W1087

The QC reported here applies to the following samples:

JC54305-1, JC54305-2, JC54305-3, JC54305-4, JC54305-5, JC54305-6

Method: TO-15

CAS No.	Compound	Spike ppbv	BSP ppbv	%	BSD ppbv	%	Limits Rec/RPD
67-66-3	Chloroform	10	9.0	90	9.4	94	70-130/30
56-23-5	Carbon tetrachloride	10	9.9	99	10.5	105	70-130/30
107-06-2	1,2-Dichloroethane	10	9.6	96	10.1	101	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	112.9	116.8	65-128%

* = Outside of Control Limits.

SGS

9 of 26
ANALYST

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC54305
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1075-BS	5W27327.D	1	10/18/17	TCH	n/a	n/a	V5W1075
V5W1075-ESD	5W27328.D	1	10/18/17	TCH	n/a	n/a	V5W1075

The QC reported here applies to the following samples:

V5W1075-SCC

Method: TO-15

CAS No.	Compound	Spike ppbv	BSP ppbv	%	BSD ppbv	%	Limits Rec/RPD
67-66-3	Chloroform	10	10.2	102	10.2	102	70-130/30
56-23-5	Carbon tetrachloride	10	10.6	106	10.6	106	70-130/30
107-06-2	1,2-Dichloroethane	10	9.0	90	9.0	90	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	122.9	120.8	65-128%

* = Outside of Control Limits.

SGS

9 of 26
ANALYST

Duplicate Summary

Job Number: JC54305
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Summa Cleaning Certification
Job Number: JC54305
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC54305-1DUP	5W27655.D	1	11/03/17	TCH	n/a	n/a	V5W1087
JC54305-1	5W27654.D	1	11/03/17	TCH	n/a	n/a	V5W1087

The QC reported here applies to the following samples: Method: TO-15

JC54305-1, JC54305-2, JC54305-3, JC54305-4, JC54305-5, JC54305-6

CAS No.	Compound	JC54305-1 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-66-3	Chloroform	ND	ND	1.4	1.5	nc	25
56-23-5	Carbon tetrachloride	ND	ND	ND	ND	7	25
107-06-2	1,2-Dichloroethane	ND	ND	ND	ND	nc	25

CAS No.	Surrogate Recoveries	DUP	JC54305-1	Limits
460-00-4	4-Bromofluorobenzene	92%	94%	65-128%

5.3.1

5

* = Outside of Control Limits.

5.4.1

5

The QC reported here (Summa M336) applies to the following samples: Method: TO-15

Batch CP9410 cleaned 10/09/17: JC54305-1(A393), JC54305-2(M429), JC54305-3(A440), JC54305-4(A389), JC54305-5(A1108), JC54305-6(A1150)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-66-3	Chloroform	ND	0.20	0.031	ppbv	ND	ND	0.98	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.020	ppbv	ND	ND	1.3	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.026	ppbv	ND	ND	0.81	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	85-128%

Instrument Performance Check (BFB)

Job Number: JC54305
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample:	V5W1065-BFB	Injection Date:	10/06/17
Lab File ID:	5W27079.D	Injection Time:	12:05
Instrument ID:	GCMSSW		

5.5.1

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	31941	13.0	Pass
75	30.0 - 66.0% of mass 95	98781	40.4	Pass
95	Base peak, 100% relative abundance	244800	100.0	Pass
96	5.0 - 9.0% of mass 95	16052	6.56	Pass
173	Less than 2.0% of mass 174	1412	0.58	(0.59) a
174	50.0 - 120.0% of mass 95	240832	98.4	Pass
175	4.0 - 9.0% of mass 174	17781	7.26	(7.38) a
176	93.0 - 101.0% of mass 174	233813	95.5	(97.1) a
177	5.0 - 9.0% of mass 176	15298	6.25	(6.54) b

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1065-IC1065	5W27080.D	10/06/17	12:49	00:44	Initial cal 0.04
V5W1065-IC1065	5W27081.D	10/06/17	13:35	01:30	Initial cal 0.1
V5W1065-IC1065	5W27082.D	10/06/17	14:28	02:23	Initial cal 0.2
V5W1065-IC1065	5W27084.D	10/06/17	16:10	04:05	Initial cal 0.5
V5W1065-IC1065	5W27085.D	10/06/17	17:00	04:55	Initial cal 5
V5W1065-IC1065	5W27086.D	10/06/17	17:45	05:40	Initial cal 10
V5W1065-IC1065	5W27087.D	10/06/17	18:33	06:28	Initial cal 20
V5W1065-IC1065	5W27088.D	10/06/17	19:23	07:18	Initial cal 40
V5W1065-ICV1065	5W27092.D	10/07/17	08:32	20:27	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JC54305
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Page 1 of 1

Sample:	V5W1075-BFB	Injection Date:	10/18/17
Lab File ID:	5W27325.D	Injection Time:	07:28
Instrument ID:	GCMSSW		

5.5.1

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	41501	14.0	Pass
75	30.0 - 66.0% of mass 95	125203	42.1	Pass
95	Base peak, 100% relative abundance	297451	100.0	Pass
96	5.0 - 9.0% of mass 95	19421	6.53	Pass
173	Less than 2.0% of mass 174	2700	0.91	(0.95) a
174	50.0 - 120.0% of mass 95	284309	95.6	Pass
175	4.0 - 9.0% of mass 174	20869	7.02	(7.34) a
176	93.0 - 101.0% of mass 174	275384	92.6	(96.9) a
177	5.0 - 9.0% of mass 176	17764	5.97	(6.45) b

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1075-CC1065	5W27326.D	10/18/17	08:15	00:47	Continuing cal 10
V5W1075-RS	5W27327.D	10/18/17	08:03	01:35	Blank Spike
V5W1075-BSD	5W27328.D	10/18/17	09:51	02:23	Blank Spike Duplicate
V5W1075-MB	5W27330.D	10/18/17	11:40	04:12	Method Blank
ZZZZZZ	5W27331.D	10/18/17	12:40	05:12	(unrelated sample)
ZZZZZZ	5W27333.D	10/18/17	14:14	06:46	(unrelated sample)
ZZZZZZ	5W27334.D	10/18/17	14:59	07:31	(unrelated sample)
ZZZZZZ	5W27335.D	10/18/17	15:44	08:16	(unrelated sample)
ZZZZZZ	5W27337.D	10/18/17	17:18	09:50	(unrelated sample)
ZZZZZZ	5W27339.D	10/18/17	18:49	11:21	(unrelated sample)
V5W1075-SCC	5W27341.D	10/18/17	20:27	12:59	Summa Cleaning Certification
ZZZZZZ	5W27342.D	10/18/17	21:11	13:43	(unrelated sample)
ZZZZZZ	5W27343.D	10/18/17	21:55	14:27	(unrelated sample)
ZZZZZZ	5W27344.D	10/18/17	22:40	15:12	(unrelated sample)
IC53288-1	5W27345.D	10/18/17	23:25	15:57	(used for QC only, not part of Job JC54305)
IC53288-IDUP	5W27346.D	10/19/17	00:11	16:43	Duplicate
ZZZZZZ	5W27347.D	10/19/17	00:56	17:28	(unrelated sample)
ZZZZZZ	5W27349.D	10/19/17	02:26	18:58	(unrelated sample)
ZZZZZZ	5W27350.D	10/19/17	03:13	19:45	(unrelated sample)
ZZZZZZ	5W27351.D	10/19/17	03:57	20:29	(unrelated sample)
V5W1075-SCC	5W27352.D	10/19/17	04:47	21:19	Summa Cleaning Certification

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JC54305
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Sample: V5W1087-BFB
Lab File ID: SW27647.D
Injection Date: 11/03/17
Instrument ID: GCMSSW
Injection Time: 10:55

5.5.3

5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	32605	14.4	Pass
75	30.0 - 66.0% of mass 95	99037	43.8	Pass
95	Base peak, 100% relative abundance	226005	100.0	Pass
96	5.0 - 9.0% of mass 95	15178	6.72	Pass
173	Less than 2.0% of mass 174	632	0.28	Pass
174	50.0 - 120.0% of mass 95	213504	94.5	Pass
175	4.0 - 9.0% of mass 174	19990	7.08	Pass
176	93.0 - 101.0% of mass 174	205397	90.9	Pass
177	5.0 - 9.0% of mass 176	13545	5.99	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1087-CC1065	5W27648.D	11/03/17	11:51	00:56	Continuing cal 10
V5W1087-BSD	5W27649.D	11/03/17	12:38	01:43	Blank Spike
V5W1087-BSD	5W27651.D	11/03/17	14:35	03:40	Blank Spike Duplicate
V5W1087-MB	5W27653.D	11/03/17	16:30	05:35	Method Blank
JC54305-1	5W27654.D	11/03/17	17:42	06:47	SVE-1
JC54305-1DUP	5W27655.D	11/03/17	18:28	07:33	Duplicate
JC54305-2	5W27656.D	11/03/17	19:13	08:18	SVE-2
JC54305-3	5W27657.D	11/03/17	19:59	09:04	SVE-3
JC54305-4	5W27658.D	11/03/17	20:45	09:50	SVE-4
JC54305-5	5W27659.D	11/03/17	21:30	10:35	SVE-5
JC54305-6	5W27660.D	11/03/17	22:15	11:20	SVE-MANIFOLD
ZZZZZZ	5W27661.D	11/03/17	23:00	12:05	(unrelated sample)
ZZZZZZ	5W27662.D	11/03/17	23:44	12:49	(unrelated sample)
ZZZZZZ	5W27663.D	11/04/17	00:30	13:35	(unrelated sample)
ZZZZZZ	5W27664.D	11/04/17	01:14	14:19	(unrelated sample)
ZZZZZZ	5W27665.D	11/04/17	02:00	15:05	(unrelated sample)
ZZZZZZ	5W27666.D	11/04/17	02:46	15:51	(unrelated sample)

Surrogate Recovery Summary

Page 1 of 1

Job Number: JC54305
Account: GCKSS GeoCore, Inc.
Project: Agra CCC/USDA

Method: TO-15
Matrix: AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JC54305-1	5W27654.D	94
JC54305-2	5W27656.D	94
JC54305-3	5W27657.D	92
JC54305-4	5W27658.D	91
JC54305-5	5W27659.D	88
JC54305-6	5W27660.D	91
JC54305-1DUP	5W27655.D	92
V5W1075-SCC	5W27352.D	108
V5W1087-BSD	5W27649.D	112
V5W1087-BSD	5W27651.D	116
V5W1087-MB	5W27653.D	94
V5W1075-BSD	5W27327.D	124
V5W1075-BSD	5W27328.D	120
V5W1075-MB	5W27330.D	104

Surrogate Compounds
Recovery Limits

S1 = 4-Bromofluorobenzene

65.0-85.0%

APPENDIX 2

FIELD NOTES
AND
SUPPORTING DOCUMENTATION

AGRA CCC/USDA WELL INFORMATION							Project # 1491	
DATE: 10-28-17								
Well	Total Depth (feet)	Permanent Tag Number	Temporary Tag Number Installed	SWL	Sample Time	Dissolved Oxygen (mg/L)	Volume Purged (Gallons)	
GW-1			488668	41.0	12:00	16.37	1.0	
GW-3			488832	40.77	12:50	13.84	1.0	
GW-4			488869	41.29	12:25	15.11	1.0	

Accutest

QUARTERLY
Sample Analysis: Carbon Tetrachloride, Chloroform, and 1,2 DCA (8260)
Record Dissolved Oxygen reading Quarterly

AGRA CCC/USDA AIR SAMPLES INFORMATION						
10-28-17						
Well	Time Collected					
SVE-1	11:00	A-303				
SVE-2	11:10	A-304				
SVE-3	11:20	A-410				
SVE-4	11:40	A-309				
SVE-5	10:50	A-1108				
SVE Manifold	11:30	A-1150				

Columbia Analytical Service

QUARTERLY

Collect one Summa Canister sample from each SVE Manifold leg and one from the overall SVE manifold. 6 total. Analyze for Carbon Tetrachloride, Chloroform, & 1,2 DCA via TO-15.

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water		Wellhead Vacuum		Depth to Top of Screen		Length of Screen Exposed (Ft.)	
	Feet BGS (Rim)	Minus	(in./ft. H ₂ O)	Minus	Top of Screen	Equals	Exposed (Ft.)	
SVE-1	640-1 + 640-4 = 432 41.15		29		20		20.86	
SVE-2			1.75		20		19.40	
SVE-3			9.2		20		20.23	
SVE-4			1.69		20		20.46	
SVE-2			4.28		20		16.87	

NOTE: 1 PSI = 2.77 INCHES OF WATER
1 INCH HG = 13.6 INCHES OF WATER
Positive screen value equals length of screen exposed
Negative screen value equals length of screen flooded

Measurements Collected By T. Davis

Date Measurements Collected 10-28-10

Comments

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water		Difference in TOC		Depth to Top of Sparge Screen (Ft.)		Calculation to Determine Amt. PSI Needed		Wellhead Pressure Needed to Overcome Water Column	
	Feet BGS (Rim)	Minus	(in./ft. H ₂ O)	Minus	Top of Sparge Screen (Ft.)	Adjusted SWL	Times	Equals	Water Column	
AS-1					51.27	41.15	X	0.434		4.44
AS-2					59		X	0.434		7.31
AS-3					53.9		X	0.434		5.53
AS-4					88		X	0.434		7.31
AS-5					58.27		X	0.434		6.56

Measurements Collected By T. Davis

Date Measurements Collected 10-28-10

Comments

PAGE 1 OF 1

SGS ACCTEST JOB # :

SGS Acctest Southeast
Chain of Custody

ACCU TEST

(If you do not know where the hour meters are located or how to read them, you make leave this space blank.)

Reprod AS, Vase + 1.4 x 3 Right and left at midline + 1.1 and on Reprod AS + 1.5 at midline + 1.1 13130-4695	Reprod AS, Vase + 1.4 x 3 Right and left at midline + 1.1 and on Reprod AS + 1.5 at midline + 1.1 13130-4695
---	---

Site Address: Agara, KS
Project Name: Remedial Action CCC/USDN
Project Code: 1491

4405 Windward Road, Suite C-15 Orlando, FL 32811
TEL: 407-435-0700 FAX: 407-435-0707
www.acctest.com

SGS Accutest Quote # 854730023-5416

SKIFF #

Client / Reporting Information Company Name: Project Name: Address: City: State: Zip: Project Contact: Project #: Phone #: Fax #: Sample 1: Sample 2:		Project Information Project Name: Project #: Client Purchase Order # State: City: Address: Street: City: State: Zip:	
SGS Accutest Sample # Field ID / Point of Collection Date: Time: TMC: DATE: SAMPLED BY: DATE: TOTAL # OF DATE: CONTAINER INFORMATION SOIL: DATE: OTHER: DATE: WATER: DATE: AIR: DATE: SOLID: DATE: OTHER: DATE:		Turnaround Time (Business days) Approved By: / Date: 10 Day (business) Rush T/A Data Available VIA Email or Link: 1 Day RUSH Other: 2 Day RUSH 3 Day RUSH 5 Day 7 Day	
Lab Use Only Requisitioned by: Date Time: Requisitioned by: Date Time: Requisitioned by: Date Time: Requisitioned by: Date Time:		Lab Use Only Requisitioned by: Date Time: Requisitioned by: Date Time: Requisitioned by: Date Time: Requisitioned by: Date Time:	

SGS COC Florida new art 5 2 17.xls rev 042417 SI

MT: MJ-102017-20
Date: 230417
Hgt: 15.00 LBS
SPECTIONG: 0.00
HANDLING: 0.00
TOTAL: 0.00

AIR CHAIN OF CUSTODY

ACCUTEST

SGS

Page 1 of 1

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

10-10-2017-20

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum (in./ft H ₂ O)	Minus	Depth to Top of Screen	Length of Screen Exposed (ft)
SVE-1	60-1 + 41.34 = 101.34	.23		20	81.11
SVE-2		.38		20	20.96
SVE-3		.60		20	20.74
SVE-4				20	
SVE-5				20	

NOTE:
1 PSI = 2.7 INCHES OF WATER
1 INCH HG = 13.6 INCHES OF WATER
Positive screen value equals length of screen exposed
Negative screen value equals length of screen flooded

Measurements Collected By: T. Borch
Date Measurements Collected: 9-28-17

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TOC Feet	Plus / Minus	TOC Elevation MW- and AS Well	Adjusted SWL	Depth to Top of Sparge Screen (ft)	Adjusted SWL	Calculation to Determine Air PSI Needed	Wellhead Pressure Needed to Overcome Water Column
AS-1	51.37	-		41.34	X	0.434	X	4.35
AS-2	56	-			X	0.434	X	7.23
AS-3	53.9	-			X	0.434	X	5.45
AS-4	58	-			X	0.434	X	7.23
AS-5	56.37	-			X	0.434	X	6.48

Measurements Collected By: T. Borch

Date Measurements Collected: 9-28-17

Comments

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CCCUSDA
 Facility Address: 671 Railroad Ave
 Agra, Kansas
 Consultant: GreenField Contractors, Inc.
 Reporting Period: 8-24-17 thru 8-24-17
 Days in Reporting Period: 1
 Field Sheet Revision Date: 8-24-17

PROJ. # 1481
 Inspector: T. Borch
 Inspection Date: 8-24-17
 Inspection Time: 13:05
 Electrical Meter Reading: 91941

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: 60911.5
 250 SCFM 40 °H2O
 150 SCFM 13.2 °H2O
 X Continual
 60911.5 Previous 61410.6 Present

Design Parameters for Air Sparge System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: 53858.4
 25 SCFM 12 PSI
 X Continual
 53858.4 Previous 53402.6 Present

Well ID	ROHE Sta ID	Temp. Tag No.	TOC Elevation	Depth to Water (TOC)	Product (TOC)	Water Level Elevation	Free Phase Prod. Elev.	Free Phase Prod. Thick.	D.O.
GW-1		478.640		411.50					
GW-3		472.928		411.29					
GW-4		472.916		411.86					

DATES		To		Explanation for Down Time	
From					(Indicate Corrective Measure Taken)

REMEDIAL ACTION SYSTEM MAINTENANCE RECORD		Description of Work Performed		Performed by	
Date of Changes					
8-24-17		K.O. Tank	Drained	K.O. Meter	Empty
		Filters SVE	Checked	Replaced	Cleaned
		ASP Blower Grease	Added	Checked	Cleaned
		Cleared SVE lines	Yes	Yes	No
		Cleaned Flowmeters	Yes	Yes	No
		Used weedster around trailer	Yes	Yes	No
		Swept trailer	Yes	Yes	No
		Sensaphone Surge Protector	Good	Good	Bad
		Adjusted Air dilution:	From: 2.1	To: 1.0	Bad
		Vane Width:			
		AIR Sparge vane measurement minimum 28 MM			
		Becker 3.60			

SVE Filter	Soberg	Need
Air Sparge Filter		

weeded Around wells

Former Agra CCCUSDA

Operating Status: Arrive On Off Departure On Off

Pro KO Tank	Pro KO Tank	Pro KO Tank	Pro KO Tank	Pro KO Tank	Pro KO Tank
63.2	170.8	150	20.9	10	10

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold (°H2O)	Direct Read Flowrate (cfm) 2" line	O2 Readings (%)	CO2 Readings (%)	TPH/Drager Readings (ppm)	Vac. @ Wellhead (°H2O)
SVE-1	7.2	50	20.9	10	10	2.9
SVE-2	10.0	50	20.9	10	10	5.1
SVE-3	12.1	50	20.9	10	10	7.5
SVE-4						
SVE-5						

SPARGE UNIT-FIELD DATA

Operating Status: Arrive On Off Departure On Off

SPARGE UNIT	Pressure (psi)	Flow Rate (cfm)	Bleed Off (% Open)	Pre Air Temp. (deg. F)	Post Air Temp. (deg. F)
	16.0	9.8	closed	122.0	

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psi)	Pressure @ Wellhead (psi)	Direct Read Flow Rate (cfm)
AS-1	4.15	3.87	4.1
AS-2	2.47	2.32	3.0
AS-3	10.4	10.4	2.1
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum (in./Ft. H ₂ O)	Minus	Depth to Top of Screen	Length of Screen Exposed (FL)
SVE-1	$6w-1 + 6w-4 = 72 = 41.68$	24		20	21.44
SVE-2		43		20	21.25
SVE-3		63		20	21.05
SVE-4				20	
SVE-5				20	

NOTE:
 1 PSI = 2.77 INCHES OF WATER
 1 INCH HG = 13.6 INCHES OF WATER
 Positive screen value equals length of screen exposed
 Negative screen value equals length of screen flooded

Measurements Collected By: T. Davis
 Date Measurements Collected: 8-24-17

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TOC Feet	Plus / Minus	Difference in TOC Elevations Between MWL and AS Well	Adjusted SWL	Calculation to Determine Air PSI Needed	Wellhead Pressure Needed to Overcome Water Column
AS-1	51.37	-		41.68	X 0.434 =	4.21
AS-2	58	-			X 0.434 =	7.08
AS-3	53.9	-			X 0.434 =	5.30
AS-4	58	-			X 0.434 =	7.08
AS-5	58.27	-			X 0.434 =	6.33

Measurements Collected By: T. Davis

Date Measurements Collected: 8-24-17

Comments

Supplement 7:

GreenField Report for Monthly OMM Event on November 28, 2017

November 29, 2017

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
Third Monthly OMM Report of the Fifth Scope of OMM Services**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of field notes from the November 28, 2017 monthly OMM event conducted at the Agra CCC/USDA remedial site. The soil vapor extraction (SVE) system was operating at a cumulative airflow rate of 150 standard cubic feet per minute (scfm) and a vacuum of 66.7 inches of water. Operating parameters were collected with SVE-1 through 3 operating. The air sparge system was operating at a pressure of 11.5 psi and cumulative airflow rate of 17.0 scfm. Operating parameters were collected with AS-1 through 3 operating. Wellhead pressures ranged from 3.86 to 9.45 psi. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

Melisa McElwee
GreenField Contractors, Inc.

C: 1491 Report File

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

3EM

Facility Name: Former Agra CCC/USDA

Facility Address: 671 Railroad Ave

Agra, Kansas

Consultant: GreenField Contractors, Inc.

Consultant Project Mgr: Tim Pace

Reporting Period: 10-28-17 thru 11-28-17

Days in Reporting Period:

Field Sheet Revision Date:

PROJ. # 1491

Inspector: Tim Deak

Inspection Date: 11-28-17

Inspection Time: 12:30

Electrical Meter Reading: 10565

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:

Reporting Period Parameters:

Blower Operation:

Hour Meter Reading:

250 SCFM 40 "H2O
150 SCFM 66.7 "H2O
X Continual Cycling
63020.5 Previous 63764.5 Present

Design Parameters for Air Sparge System:

Reporting Period Parameters:

Blower Operation:

Hour Meter Reading:

25 SCFM 12 PSI
17.0 SCFM 11.5 PSI
X Continual Cycling
54966.8 Previous 55710.9 Present

GROUNDWATER ELEVATIONS

Well I.D. No.	KDHE Site I.D.	Temp. Tag No.	TOC Elevation	Depth to Water (TOC)	Depth to Product (TOC)	Water Level Elevation	Free Phase Prod. Elev.	Free Phase Prod. Thick.	D.O.
GW-1		488353		40.81					
GW-3		488959		40.69					
GW-4		488700		41.25					

SYSTEM DOWN TIME SUMMARY

DATES		Explanation for Down Time (Indicate Corrective Measures Taken)
From	To	

REMEDATION SYSTEM MAINTENANCE RECORD

Date of Changes	Description of Work Performed				Performed by
11-28-17	K.O. Tank	Drained	K.O. Meter:		T. Doral
	Filters SVE	Checked	Replaced	Cleaned	
	A/SP Blower Grease	Checked	Added	Cleaned	
	Cleared SVE lines		Yes	No	
	Cleaned Flowmeters		Yes	No	
	Used weedeater around trailer		Yes	No	
	Swept trailer		Yes	No	
	Sensaphone Surge Protector		Good	Bad	
	Adjusted Air dilution:	From: closed	To: closed		
	Check Quarterly	Vane Width:			
Becker 3.60	AIR Sparge vane measurement minimum 26 MM				

Need					
SVE Filter	Solberg				
Air Sparge Filter					

Tibor L 11-28-17

Former Agra CCC/USDA

Proj. # 1481

Operating Status: Arrival On / Off Departure On / Off

SVE UNIT	Pre KO Tank Vacuum ("H2O)	Pre/Post Filter Vacuum ("H2O)	Station Air Flowrate (cfm)	Cumulative Flowrate (cfm) Sum of SVE Wells	O2 Readings (%)	CO2 Readings (%)	TPH (PID) Readings (ppm)
	66.7	- 74.0	closed	150	20.9	.0	.0

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold ("H2O)	Direct Read Flowrate (cfm) 2" line	O2 Readings (%)	CO2 Readings (%)	TPH/Drager Readings (ppm)	Vac. @ Wellhead ("H2O)
SVE-1	6.7	50	20.9	.0	.0	2.9
SVE-2	22.7	50	20.9	.0	.0	18.9
SVE-3	16.2	50	20.9	.0	.0	10.8
SVE-4						
SVE-5						

SPARGE UNIT FIELD DATA

Operating Status: Arrival On / Off Departure On / Off

SPARGE UNIT	Pressure (psi)	Flow Rate (cfm)	Bleed Off (% Open)	Pre Air Temp. (deg. F)	Post Air Temp. (deg. F)
	11.5	17.0	closed	109°	

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure @ Manifold (psi)	Pressure @ Wellhead (psi)	Direct Read Flow Rate (cfm)
AS-1	4.52	3.86	6.5
AS-2	8.68	7.76	8.5
AS-3	9.47	9.45	2.0
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Minus	Wellhead Vacuum (In./Ft. H ₂ O)	Minus	Depth to Top of Screen	Equals	Length of Screen Exposed (Ft.)
	$6w-1 + 6w-4 = \div 2 =$						
SVE-1	41.03		.24		20	=	20.79
SVE-2			1.58		20	=	19.45
SVE-3			.9		20	=	20.13
SVE-4					20	=	
SVE-2					20	=	

NOTE: 1 PSI = 27.7 INCHES OF WATER
 1 INCH HG = 13.6 INCHES OF WATER
 Positive screen value equals length of screen exposed
 Negative screen value equals length of screen flooded

Measurements Collected By T. Doran

Date Measurements Collected 11-28-17

Comments

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water below TOC Feet	Plus / Minus	Difference in TOC Elevation Between MW- and AS Well	Equals	Adjusted SWL	Depth to Top of Sparge Screen (Ft)	Minus	Adjusted SWL	Times	Calculation to Determine Amt. PSI Needed	Equals	Wellhead Pressure Needed to Overcome Water Column
AS-1		-		=		51.37	-	41.03	X	0.434	=	4.49
AS-2		-		=		58	-		X	0.434	=	7.36
AS-3		-		=		53.9	-		X	0.434	=	5.59
AS-4		-		=		58	-		X	0.434	=	7.36
AS-5		-		=		58.27	-		X	0.434	=	6.61

Measurements Collected By T. Deed

Date Measurements Collected 11-28-07

Comments

Supplement 8:

GreenField Report for Monthly OMM Event on December 29, 2017

January 02, 2018

Lorraine M. LaFreniere, Ph.D., Manager
Applied Geosciences and Environmental Management Section
Environmental Science Division
Argonne National Laboratory
9700 South Cass Avenue, Building 203
Argonne, Illinois 60439-4843

**RE: Former CCC/USDA Site, Main & Railroad Streets, Agra, Kansas
Fourth Monthly OMM Report of the Fifth Scope of OMM Services**

Ms. LaFreniere,

GreenField Contractors, Inc. is submitting the attached copy of field notes from the December 29, 2017 monthly OMM event conducted at the Agra CCC/USDA remedial site. The soil vapor extraction (SVE) system was operating at a cumulative airflow rate of 150 standard cubic feet per minute (scfm) and a vacuum of 68.7 inches of water. Operating parameters were collected with SVE-1 through 3 operating. The air sparge system was operating at a pressure of 11.4 psi and cumulative airflow rate of 15.7 scfm. Operating parameters were collected with AS-1 through 3 operating. Wellhead pressures ranged from 4.01 to 8.91 psi. Please contact me if you have any question concerning this report or the remedial project in general.

Sincerely,

Melisa McElwee
GreenField Contractors, Inc.

C: 1491 Report File

MONTHLY OPERATION MONITORING & MAINTENANCE REPORT

Facility Name: Former Agra CCC/USDA
 Facility Address: 571 Railroad Ave, Agra, Kansas
 Consultant: GreenField Contractors, Inc.
 Consultant Project Mgr: Tim Pace
 Reporting Period: 12-28-17 thru 12-29-17
 Days in Reporting Period: 2
 Field Sheet Revision Date: 16327

PROJ. # 1491
 Inspector: Tim Pace
 Inspection Date: 12-29-17
 Inspection Time: 12:15
 Electrical Meter Reading: 16327

VAPOR EXTRACTION/INJECTION INFORMATION

Design Parameters for Vapor Extraction System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: 6374.5
 Design Parameters for Air Sparge System:
 Reporting Period Parameters:
 Blower Operation:
 Hour Meter Reading: 55710.9

Well ID	KGHE Site ID	Temp	Depth to Water	Water Level	Free Phase Prod. Elev.	Free Phase Prod. Thick.
GW-1	428.01	428.01	428.01	428.01	428.01	428.01
GW-3	428.25	428.25	428.25	428.25	428.25	428.25
GW-4	428.50	428.50	428.50	428.50	428.50	428.50

SYSTEM DOWN TIME SUMMARY

DATES	From	To	Explanation for Down Time
12-29-17			

REMEDATION SYSTEM MAINTENANCE RECORD	Description of Work Performed	Performed by
K.O. Tank	Checked	Empty
Fillers SVE	Checked	7.00%
ASP Blower Grease	Checked	
Cleaned SVE lines	Yes	
Cleaned Flowmeters	Yes	
Used weedwacker around trailer	Yes	
Swept trailer	Yes	
Sensaphone Surge Protector	Yes	
Adjusted Air dilution	From: 1.000 To: 1.000	
Vane Width		
AIR Sparge vane measurement minimum 26 MM		

Check Quantity: 3.60
 Becker 3.60

SVE Filter	Submerg	Need
Air Sparge Filter	Submerg	Need

12-29-17

Operating Status:	Arrival On	Off	Departure On	Off	Pre KO Tank Vacuum (H2O)	Filter Vacuum (H2O)	Dilation Air Flowrate (cfm)	Cumulative Flowrate (cfm)	O2 Readings (%)	CO2 Readings (%)	TPH (PTD) Readings (ppm)
SVE UNIT	68.7	1754	closed	150	20A	20A	150	150	20A	20A	20A

SVE WELL FIELD DATA

SVE WELL	Vac. @ Manifold (H2O)	Direct Read Flowrate (cfm)	O2 Readings (%)	CO2 Readings (%)	TPH/Drager Readings (ppm)	Vac. @ Wellhead (H2O)
SVE-1	7.2	50	20A	10	10	24
SVE-2	24.0	50	20.9	10	10	19.7
SVE-3	13.7	50	20.9	10	10	8.3
SVE-4						
SVE-5						

SPARGE UNIT FIELD DATA

Operating Status:	Arrival On	Off	Departure On	Off	Pressure (psi)	Flow Rate (cfm)	Bled Off (% Open)	Pre Air Temp. (deg. F)	Post Air Temp. (deg. F)
SPARGE UNIT	11.4	15.7	closed	83.0					

SPARGE WELL FIELD DATA

SPARGE WELL	Pressure Manifold (psi)	Pressure @ Wellhead (psi)	Direct Read Flow Rate (cfm)
AS-1	5.36	4.07	7.0
AS-2	8.61	7.82	7.0
AS-3	9.32	8.91	1.7
AS-4			
AS-5			

Former Agra CCC/USDA Agra, Kansas

MONTHLY SVE SCREEN EXPOSURE CALCULATION SHEET

SVE Well	Depth To Water Feet BGS (Rim)	Wellhead Vacuum Minus (In./Ft. H ₂ O)	Depth to Top of Screen Minus	Length of Screen Exposed (Ft.)
SVE-1	640-1 + 640-1 = 1280 40.62	1.2	20	20.42
SVE-2		1.64	20	18.98
SVE-3		1.69	20	19.93
SVE-4			20	
SVE-5			20	

NOTE:
 1 PSI = 2.77 INCHES OF WATER
 1 INCH HG = 13.6 INCHES OF WATER
 Positive screen value equals length of screen exposed
 Negative screen value equals length of screen flooded

Measurements Collected By: T. Beru

Date Measurements Collected: 12-29-17

Comments:

Former Agra CCC/USDA

MONTHLY SPARGE SCREEN EXPOSURE CALCULATION SHEET

AS Well	Depth to Water Feet	Plus / Minus	Difference in TOC Elevation Between MW- and AS Well	Adjusted SWL	Depth to Top of Sparge Screen (Ft)	Adjusted SWL Minus	Calculation to Determine Amt. Pul Needed	Equals	Withstand Pressure Needed to Overcome Water Column
AS-1		-			51.37	- 40.62	X	0.634	= 4.67
AS-2		-			58	-	X	0.634	= 7.54
AS-3		-			53.9	-	X	0.634	= 5.76
AS-4		-			58	-	X	0.634	= 7.54
AS-5		-			58.27	-	X	0.634	= 6.79

Measurements Collected By: T. Beru

Date Measurements Collected: 12-29-17

Comments

Supplement 9:
Daily Telemetry Reports

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/01/17

Time: 03:32:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.9 V			0.1	5.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/02/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.1	5.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/03/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.1	5.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/04/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.3 V			0.1	5.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/05/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.2 V			0.1	5.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/06/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.4 V			0.1	5.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/07/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	1.1 V			0.1	5.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/08/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	0.9 V			0.1	5.1		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/09/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.4	6.7		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/10/17

Time: 03:36:09PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.5 V			6.3	6.7		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/11/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.7		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/12/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.7		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/13/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.7		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/14/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.7		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/15/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.7		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/16/17

Time: 03:32:23PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.7		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/17/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.7		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/18/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/19/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/20/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/21/17

Time: 03:33:03PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/22/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/23/17

Time: 03:32:45PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/24/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/25/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/26/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/27/17

Time: 03:32:03PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/28/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/29/17

Time: 03:32:23PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/30/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 07/31/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/01/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/02/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/03/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/04/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/05/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/06/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/07/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/08/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/09/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/10/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/11/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/12/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/13/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/14/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/15/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/16/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/17/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/18/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/19/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/20/17

Time: 03:32:03PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/21/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/22/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/23/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/24/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/25/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/26/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/27/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/28/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/29/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/30/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 08/31/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.4	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/01/17

Time: 03:32:25PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.4	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/02/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.4	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/03/17

Time: 03:32:16PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.4	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/04/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/05/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/06/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/07/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/08/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/09/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/10/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/11/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/12/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/13/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
-----	-----	-----	-----	-----	-----	-----	-----
SUE Ouload		OFF	OK				

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/14/17

Time: 03:32:09PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/15/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/16/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/17/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/18/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/19/17

Time: 03:32:41PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/20/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/21/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/22/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/23/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/24/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/25/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.3	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/26/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/27/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/28/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/29/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 09/30/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/01/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/02/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/03/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/04/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/05/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/06/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/07/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/08/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/09/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/10/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/11/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/12/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUload		OFF	OK				
ASP OUload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/13/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/14/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/15/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/16/17

Time: 03:32:03PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/17/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/18/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/19/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/20/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/21/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/22/17

Time: 03:32:20PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/23/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/24/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/25/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.1	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/26/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/27/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/28/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/29/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/30/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 10/31/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/01/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/02/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/03/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/04/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/05/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/06/17

Time: 03:32:03PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/07/17

Time: 03:32:23PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/08/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/09/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/10/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/11/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/12/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/13/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/14/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/15/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/16/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/17/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/18/17

Time: 03:32:23PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/19/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/20/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/21/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/22/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/23/17

Time: 03:32:18PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/24/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/25/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/26/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/27/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/28/17

Time: 03:32:24PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVload		OFF	OK				
ASP OVload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/29/17

Time: 03:33:03PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 11/30/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/01/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/02/17

Time: 03:27:51PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/03/17

Time: 03:36:24PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/04/17

Time: 03:38:02PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/05/17

Time: 03:27:51PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OVerload		OFF	OK				
ASP OVerload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/06/17

Time: 03:36:28PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/07/17

Time: 03:27:51PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/08/17

Time: 03:36:30PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.5	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/09/17

Time: 03:36:24PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
UI OVLod		OFF	OK				
SI OVLod		OFF	OK				
UI Motor		RUNNING	OK				
SI Motor		RUNNING	OK				
U Tank		OFF	OK				
input 6		OPEN	OK				
input 7		OPEN	OK				
g = CCC/USDA		OPEN	OK				
Power	1.0	ON	OK				
at: 17y	6.7 V			6.5	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/10/17

Time: 03:27:51PM

UNIT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
101 G Load		OFF	OK				
101 A Load		OFF	OK				
301 Motor		RUNNING	OK				
401 Motor		RUNNING	OK				
101 k		OFF	OK				
101		OPEN	OK				
101		OPEN	OK				
101 CCC/USDA		OPEN	OK				
101	1.0	ON	OK				
101	6.8 V			6.5	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/11/17

Time: 03:27:51PM

NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
oad		OFF	OK				
oad		OFF	OK				
er		RUNNING	OK				
er		RUNNING	OK				
ok		OFF	OK				
		OPEN	OK				
		OPEN	OK				
C/USDA		OPEN	OK				
	1.0	ON	OK				
	6.8 V			6.5	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/12/17

Time: 03:27:51PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/13/17

Time: 03:36:24PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.5	6.8		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/14/17

Time: 03:36:24PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.7 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/15/17

Time: 03:27:51PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/16/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/17/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/18/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/19/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/20/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/21/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/22/17

Time: 03:32:17PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/23/17

Time: 03:40:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/24/17

Time: 03:32:15PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OVload		OFF	OK				
ASP OVload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/25/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/26/17

Time: 03:32:01PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUload		OFF	OK				
ASP OUload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/27/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/28/17

Time: 03:31:57PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/29/17

Time: 03:32:19PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/30/17

Time: 03:32:14PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SVE Ouload		OFF	OK				
ASP Ouload		OFF	OK				
SVE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Sensaphone 2000 Status Report

From: Agra CCC/USDA

at: 917856382233

Date: 12/31/17

Time: 03:32:28PM

INPUT NAME	VALUE	STATUS	STATE	MIN	MAX	LOLIM	HILIM
SUE OUnload		OFF	OK				
ASP OUnload		OFF	OK				
SUE Motor		RUNNING	OK				
ASP Motor		RUNNING	OK				
K.O. Tank		OFF	OK				
Input 6		OPEN	OK				
Input 7		OPEN	OK				
Agra CCC/USDA		OPEN	OK				
AC Power	1.0	ON	OK				
Battery	6.8 V			6.2	6.9		

Supplement 10:

**Automatically Recorded Air Pressures in Soil Gas Wells
and Local Barometric Pressure**

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/7/16 18:00	13.949	13.971	13.977	13.977	14.014	13.968	13.969
12/7/16 20:00	13.976	13.999	13.999	14.002	14.048	13.992	13.994
12/7/16 22:00	13.995	14.012	14.022	14.020	14.079	14.012	14.012
12/8/16 0:00	14.009	14.030	14.035	14.037	14.088	14.026	14.027
12/8/16 2:00	14.019	14.043	14.043	14.046	14.110	14.036	14.039
12/8/16 4:00	14.031	14.049	14.058	14.056	14.119	14.048	14.048
12/8/16 6:00	14.036	14.058	14.065	14.066	14.123	14.055	14.057
12/8/16 8:00	14.053	14.078	14.079	14.082	14.137	14.071	14.073
12/8/16 10:00	14.069	14.087	14.098	14.096	14.155	14.087	14.088
12/8/16 12:00	14.067	14.089	14.097	14.098	14.165	14.087	14.089
12/8/16 14:00	14.048	14.074	14.076	14.079	14.166	14.067	14.070
12/8/16 16:00	14.040	14.060	14.071	14.069	14.152	14.060	14.061
12/8/16 18:00	14.037	14.061	14.068	14.067	14.135	14.057	14.059
12/8/16 20:00	14.044	14.068	14.071	14.074	14.138	14.063	14.064
12/8/16 22:00	14.035	14.055	14.065	14.063	14.145	14.054	14.055
12/9/16 0:00	14.032	14.054	14.060	14.060	14.127	14.050	14.052
12/9/16 2:00	14.015	14.037	14.041	14.043	14.130	14.031	14.034
12/9/16 4:00	14.002	14.021	14.031	14.029	14.112	14.020	14.021
12/9/16 6:00	13.984	14.006	14.013	14.012	14.097	14.001	14.004
12/9/16 8:00	13.979	14.003	14.007	14.008	14.081	13.997	13.999
12/9/16 10:00	13.966	13.987	13.997	13.995	14.082	13.986	13.986
12/9/16 12:00	13.946	13.970	13.976	13.977	14.062	13.966	13.968
12/9/16 14:00	13.908	13.934	13.937	13.939	14.048	13.928	13.930
12/9/16 16:00	13.916	13.938	13.947	13.946	14.010	13.937	13.938
12/9/16 18:00	13.920	13.944	13.950	13.950	14.012	13.940	13.942
12/9/16 20:00	13.926	13.950	13.954	13.955	14.018	13.944	13.947
12/9/16 22:00	13.917	13.935	13.945	13.942	14.025	13.934	13.935
12/10/16 0:00	13.924	13.947	13.953	13.953	14.011	13.943	13.945
12/10/16 2:00	13.904	13.930	13.934	13.935	14.020	13.923	13.926
12/10/16 4:00	13.887	13.909	13.917	13.917	14.007	13.907	13.908
12/10/16 6:00	13.859	13.882	13.889	13.888	13.982	13.878	13.880
12/10/16 8:00	13.850	13.875	13.878	13.881	13.955	13.868	13.871
12/10/16 10:00	13.833	13.855	13.864	13.862	13.951	13.853	13.854
12/10/16 12:00	13.783	13.806	13.813	13.815	13.927	13.803	13.804
12/10/16 14:00	13.734	13.760	13.763	13.768	13.883	13.755	13.757
12/10/16 16:00	13.705	13.727	13.734	13.733	13.834	13.725	13.726
12/10/16 18:00	13.688	13.712	13.717	13.719	13.802	13.708	13.710
12/10/16 20:00	13.667	13.693	13.695	13.697	13.786	13.687	13.689
12/10/16 22:00	13.646	13.665	13.674	13.674	13.769	13.665	13.665
12/11/16 0:00	13.616	13.638	13.644	13.645	13.738	13.635	13.637
12/11/16 2:00	13.601	13.623	13.626	13.629	13.711	13.618	13.620
12/11/16 4:00	13.606	13.625	13.633	13.633	13.698	13.623	13.624
12/11/16 6:00	13.628	13.650	13.656	13.656	13.697	13.646	13.648
12/11/16 8:00	13.665	13.689	13.692	13.693	13.725	13.683	13.685
12/11/16 10:00	13.697	13.716	13.725	13.725	13.762	13.715	13.716
12/11/16 12:00	13.722	13.745	13.750	13.751	13.792	13.741	13.743
12/11/16 14:00	13.725	13.751	13.752	13.755	13.819	13.744	13.747

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/11/16 16:00	13.737	13.758	13.766	13.765	13.825	13.757	13.757
12/11/16 18:00	13.762	13.786	13.791	13.792	13.831	13.782	13.785
12/11/16 20:00	13.771	13.796	13.798	13.800	13.859	13.790	13.792
12/11/16 22:00	13.780	13.798	13.808	13.807	13.871	13.797	13.798
12/12/16 0:00	13.799	13.821	13.828	13.827	13.871	13.816	13.819
12/12/16 2:00	13.788	13.812	13.815	13.816	13.897	13.806	13.808
12/12/16 4:00	13.782	13.802	13.810	13.809	13.885	13.800	13.801
12/12/16 6:00	13.767	13.789	13.797	13.796	13.873	13.785	13.788
12/12/16 8:00	13.763	13.787	13.791	13.792	13.865	13.781	13.784
12/12/16 10:00	13.765	13.787	13.795	13.794	13.860	13.785	13.786
12/12/16 12:00	13.752	13.778	13.783	13.785	13.862	13.773	13.775
12/12/16 14:00	13.720	13.747	13.750	13.752	13.851	13.741	13.743
12/12/16 16:00	13.709	13.731	13.740	13.740	13.822	13.730	13.731
12/12/16 18:00	13.721	13.744	13.751	13.751	13.804	13.740	13.743
12/12/16 20:00	13.750	13.775	13.778	13.779	13.820	13.768	13.770
12/12/16 22:00	13.787	13.809	13.817	13.815	13.848	13.807	13.808
12/13/16 0:00	13.814	13.838	13.844	13.846	13.879	13.834	13.837
12/13/16 2:00	13.837	13.860	13.864	13.866	13.912	13.854	13.857
12/13/16 4:00	13.855	13.876	13.884	13.882	13.932	13.873	13.874
12/13/16 6:00	13.875	13.897	13.905	13.904	13.949	13.892	13.895
12/13/16 8:00	13.908	13.930	13.935	13.934	13.970	13.924	13.927
12/13/16 10:00	13.922	13.943	13.951	13.950	14.005	13.940	13.941
12/13/16 12:00	13.892	13.915	13.921	13.922	14.015	13.911	13.913
12/13/16 14:00	13.864	13.890	13.893	13.895	13.991	13.884	13.885
12/13/16 16:00	13.839	13.864	13.872	13.871	13.963	13.860	13.862
12/13/16 18:00	13.842	13.865	13.871	13.871	13.934	13.860	13.862
12/13/16 20:00	13.836	13.859	13.865	13.865	13.940	13.854	13.857
12/13/16 22:00	13.832	13.852	13.861	13.859	13.932	13.849	13.851
12/14/16 0:00	13.833	13.855	13.862	13.861	13.926	13.850	13.852
12/14/16 2:00	13.820	13.843	13.847	13.849	13.928	13.837	13.839
12/14/16 4:00	13.833	13.854	13.863	13.861	13.918	13.851	13.854
12/14/16 6:00	13.860	13.883	13.890	13.889	13.928	13.878	13.881
12/14/16 8:00	13.900	13.924	13.928	13.929	13.955	13.917	13.920
12/14/16 10:00	13.929	13.953	13.961	13.960	13.997	13.949	13.950
12/14/16 12:00	13.946	13.972	13.978	13.979	14.024	13.967	13.970
12/14/16 14:00	13.931	13.958	13.961	13.962	14.046	13.951	13.953
12/14/16 16:00	13.931	13.954	13.962	13.962	14.029	13.951	13.952
12/14/16 18:00	13.933	13.957	13.964	13.964	14.028	13.954	13.955
12/14/16 20:00	13.939	13.965	13.969	13.971	14.031	13.959	13.961
12/14/16 22:00	13.948	13.972	13.980	13.978	14.041	13.968	13.970
12/15/16 0:00	13.950	13.975	13.981	13.981	14.043	13.970	13.972
12/15/16 2:00	13.944	13.971	13.975	13.975	14.045	13.964	13.967
12/15/16 4:00	13.926	13.949	13.956	13.957	14.044	13.946	13.948
12/15/16 6:00	13.906	13.929	13.937	13.936	14.020	13.925	13.927
12/15/16 8:00	13.905	13.931	13.935	13.935	14.004	13.924	13.926
12/15/16 10:00	13.889	13.913	13.920	13.920	14.002	13.909	13.911
12/15/16 12:00	13.844	13.871	13.877	13.879	13.986	13.867	13.869

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/15/16 14:00	13.789	13.817	13.821	13.823	13.944	13.812	13.814
12/15/16 16:00	13.759	13.783	13.790	13.789	13.893	13.780	13.781
12/15/16 18:00	13.752	13.775	13.781	13.780	13.856	13.770	13.772
12/15/16 20:00	13.732	13.758	13.761	13.764	13.846	13.751	13.754
12/15/16 22:00	13.711	13.732	13.740	13.739	13.831	13.729	13.731
12/16/16 0:00	13.686	13.709	13.714	13.714	13.804	13.703	13.706
12/16/16 2:00	13.655	13.679	13.683	13.684	13.783	13.672	13.675
12/16/16 4:00	13.634	13.655	13.663	13.662	13.752	13.652	13.653
12/16/16 6:00	13.618	13.642	13.649	13.648	13.730	13.637	13.639
12/16/16 8:00	13.595	13.621	13.625	13.627	13.715	13.614	13.617
12/16/16 10:00	13.583	13.606	13.614	13.612	13.691	13.602	13.604
12/16/16 12:00	13.525	13.549	13.555	13.556	13.678	13.545	13.547
12/16/16 14:00	13.516	13.541	13.544	13.547	13.621	13.534	13.537
12/16/16 16:00	13.521	13.543	13.551	13.549	13.614	13.540	13.542
12/16/16 18:00	13.535	13.559	13.564	13.566	13.613	13.554	13.556
12/16/16 20:00	13.555	13.581	13.583	13.586	13.633	13.574	13.577
12/16/16 22:00	13.573	13.594	13.602	13.600	13.652	13.591	13.593
12/17/16 0:00	13.627	13.649	13.655	13.656	13.668	13.645	13.648
12/17/16 2:00	13.662	13.686	13.689	13.693	13.722	13.679	13.682
12/17/16 4:00	13.682	13.701	13.710	13.707	13.757	13.699	13.700
12/17/16 6:00	13.731	13.752	13.759	13.754	13.775	13.746	13.749
12/17/16 8:00	13.773	13.794	13.798	13.796	13.825	13.786	13.791
12/17/16 10:00	13.790	13.811	13.818	13.818	13.868	13.807	13.810
12/17/16 12:00	13.792	13.816	13.822	13.824	13.883	13.810	13.814
12/17/16 14:00	13.794	13.816	13.821	13.824	13.887	13.810	13.814
12/17/16 16:00	13.836	13.855	13.863	13.860	13.890	13.851	13.853
12/17/16 18:00	13.875	13.897	13.903	13.902	13.926	13.891	13.894
12/17/16 20:00	13.906	13.928	13.933	13.932	13.971	13.922	13.924
12/17/16 22:00	13.923	13.943	13.950	13.949	13.999	13.939	13.941
12/18/16 0:00	13.937	13.958	13.964	13.963	14.017	13.952	13.954
12/18/16 2:00	13.943	13.963	13.968	13.967	14.029	13.957	13.960
12/18/16 4:00	13.945	13.963	13.971	13.970	14.038	13.959	13.961
12/18/16 6:00	13.953	13.973	13.979	13.978	14.036	13.966	13.969
12/18/16 8:00	13.973	13.994	14.000	14.000	14.043	13.988	13.991
12/18/16 10:00	13.983	14.005	14.013	14.010	14.067	14.000	14.003
12/18/16 12:00	13.973	13.998	14.004	14.005	14.075	13.992	13.995
12/18/16 14:00	13.958	13.984	13.989	13.987	14.071	13.977	13.979
12/18/16 16:00	13.955	13.981	13.988	13.986	14.055	13.976	13.978
12/18/16 18:00	13.971	13.995	14.002	14.001	14.055	13.990	13.993
12/18/16 20:00	13.987	14.013	14.017	14.018	14.068	14.005	14.008
12/18/16 22:00	14.003	14.025	14.032	14.031	14.083	14.020	14.022
12/19/16 0:00	14.005	14.028	14.034	14.034	14.097	14.023	14.026
12/19/16 2:00	13.991	14.016	14.021	14.021	14.100	14.009	14.012
12/19/16 4:00	13.986	14.008	14.015	14.015	14.089	14.003	14.005
12/19/16 6:00	13.975	13.999	14.004	14.003	14.079	13.992	13.995
12/19/16 8:00	13.982	14.005	14.009	14.009	14.072	13.998	14.000
12/19/16 10:00	13.974	13.996	14.004	14.001	14.076	13.991	13.994

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/19/16 12:00	13.950	13.976	13.983	13.983	14.069	13.970	13.973
12/19/16 14:00	13.895	13.923	13.928	13.928	14.049	13.916	13.919
12/19/16 16:00	13.872	13.900	13.907	13.906	13.993	13.895	13.898
12/19/16 18:00	13.860	13.886	13.893	13.892	13.972	13.881	13.883
12/19/16 20:00	13.847	13.874	13.879	13.881	13.958	13.868	13.871
12/19/16 22:00	13.837	13.861	13.869	13.867	13.947	13.857	13.859
12/20/16 0:00	13.829	13.854	13.860	13.860	13.933	13.847	13.851
12/20/16 2:00	13.824	13.850	13.855	13.856	13.928	13.844	13.846
12/20/16 4:00	13.837	13.859	13.866	13.864	13.922	13.854	13.856
12/20/16 6:00	13.856	13.880	13.886	13.884	13.932	13.874	13.877
12/20/16 8:00	13.878	13.904	13.909	13.907	13.952	13.896	13.899
12/20/16 10:00	13.894	13.917	13.925	13.924	13.974	13.913	13.915
12/20/16 12:00	13.883	13.910	13.916	13.916	13.991	13.904	13.907
12/20/16 14:00	13.857	13.885	13.889	13.890	13.981	13.878	13.881
12/20/16 16:00	13.838	13.863	13.868	13.868	13.958	13.858	13.859
12/20/16 18:00	13.820	13.845	13.850	13.851	13.933	13.840	13.844
12/20/16 20:00	13.819	13.846	13.849	13.849	13.920	13.839	13.841
12/20/16 22:00	13.793	13.816	13.823	13.823	13.918	13.812	13.814
12/21/16 0:00	13.772	13.797	13.803	13.804	13.885	13.792	13.794
12/21/16 2:00	13.745	13.770	13.774	13.773	13.870	13.764	13.766
12/21/16 4:00	13.729	13.752	13.760	13.758	13.841	13.748	13.750
12/21/16 6:00	13.726	13.749	13.756	13.754	13.825	13.744	13.747
12/21/16 8:00	13.740	13.765	13.769	13.768	13.821	13.758	13.761
12/21/16 10:00	13.781	13.805	13.812	13.811	13.839	13.801	13.803
12/21/16 12:00	13.820	13.847	13.853	13.852	13.877	13.841	13.845
12/21/16 14:00	13.837	13.863	13.867	13.869	13.922	13.857	13.861
12/21/16 16:00	13.853	13.878	13.884	13.885	13.937	13.874	13.876
12/21/16 18:00	13.881	13.907	13.912	13.912	13.947	13.901	13.904
12/21/16 20:00	13.910	13.936	13.939	13.940	13.980	13.929	13.932
12/21/16 22:00	13.934	13.959	13.965	13.965	14.006	13.955	13.956
12/22/16 0:00	13.943	13.970	13.974	13.973	14.032	13.963	13.965
12/22/16 2:00	13.950	13.978	13.981	13.982	14.040	13.970	13.973
12/22/16 4:00	13.957	13.981	13.988	13.987	14.051	13.977	13.979
12/22/16 6:00	13.943	13.969	13.974	13.974	14.053	13.963	13.966
12/22/16 8:00	13.951	13.977	13.981	13.982	14.043	13.971	13.973
12/22/16 10:00	13.950	13.976	13.983	13.982	14.050	13.970	13.973
12/22/16 12:00	13.934	13.962	13.967	13.968	14.047	13.957	13.959
12/22/16 14:00	13.898	13.926	13.930	13.931	14.036	13.920	13.922
12/22/16 16:00	13.888	13.913	13.920	13.919	13.998	13.910	13.911
12/22/16 18:00	13.878	13.906	13.911	13.913	13.983	13.900	13.902
12/22/16 20:00	13.852	13.880	13.882	13.884	13.978	13.873	13.875
12/22/16 22:00	13.833	13.857	13.864	13.863	13.950	13.854	13.854
12/23/16 0:00	13.804	13.830	13.835	13.836	13.930	13.825	13.827
12/23/16 2:00	13.771	13.799	13.801	13.804	13.902	13.792	13.795
12/23/16 4:00	13.729	13.752	13.758	13.759	13.873	13.749	13.750
12/23/16 6:00	13.684	13.710	13.715	13.716	13.823	13.705	13.706
12/23/16 8:00	13.672	13.699	13.701	13.702	13.782	13.692	13.694

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/23/16 10:00	13.654	13.676	13.683	13.683	13.773	13.673	13.674
12/23/16 12:00	13.651	13.678	13.682	13.682	13.747	13.672	13.673
12/23/16 14:00	13.644	13.669	13.672	13.673	13.751	13.663	13.666
12/23/16 16:00	13.669	13.692	13.699	13.699	13.743	13.690	13.691
12/23/16 18:00	13.688	13.712	13.717	13.716	13.761	13.708	13.708
12/23/16 20:00	13.716	13.741	13.742	13.744	13.786	13.735	13.736
12/23/16 22:00	13.740	13.762	13.769	13.767	13.813	13.759	13.760
12/24/16 0:00	13.754	13.777	13.782	13.782	13.835	13.772	13.774
12/24/16 2:00	13.753	13.777	13.780	13.782	13.850	13.771	13.773
12/24/16 4:00	13.763	13.784	13.792	13.790	13.848	13.779	13.782
12/24/16 6:00	13.763	13.785	13.791	13.791	13.856	13.780	13.783
12/24/16 8:00	13.778	13.802	13.807	13.807	13.857	13.796	13.798
12/24/16 10:00	13.781	13.806	13.812	13.811	13.876	13.801	13.803
12/24/16 12:00	13.765	13.792	13.797	13.797	13.877	13.786	13.788
12/24/16 14:00	13.730	13.759	13.762	13.764	13.866	13.752	13.754
12/24/16 16:00	13.721	13.745	13.753	13.752	13.831	13.741	13.743
12/24/16 18:00	13.714	13.741	13.746	13.745	13.815	13.735	13.737
12/24/16 20:00	13.713	13.739	13.740	13.743	13.815	13.732	13.734
12/24/16 22:00	13.701	13.727	13.732	13.733	13.809	13.723	13.724
12/25/16 0:00	13.699	13.725	13.731	13.732	13.799	13.720	13.723
12/25/16 2:00	13.679	13.706	13.708	13.710	13.798	13.699	13.702
12/25/16 4:00	13.650	13.675	13.681	13.683	13.777	13.669	13.673
12/25/16 6:00	13.614	13.641	13.645	13.646	13.747	13.634	13.638
12/25/16 8:00	13.582	13.609	13.609	13.615	13.713	13.598	13.605
12/25/16 10:00	13.528	13.551	13.557	13.559	13.682	13.546	13.550
12/25/16 12:00	13.507	13.505	13.492	13.498	13.623	13.526	13.489
12/25/16 14:00	13.435	13.415	13.370	13.378	13.567	13.450	13.373
12/25/16 16:00	13.436	13.390	13.382	13.367	13.469	13.460	13.364
12/25/16 18:00	13.511	13.491	13.477	13.477	13.437	13.530	13.471
12/25/16 20:00	13.566	13.560	13.526	13.535	13.551	13.583	13.529
12/25/16 22:00	13.613	13.585	13.581	13.569	13.618	13.632	13.565
12/26/16 0:00	13.659	13.648	13.638	13.637	13.640	13.676	13.631
12/26/16 2:00	13.684	13.686	13.658	13.666	13.710	13.700	13.659
12/26/16 4:00	13.713	13.692	13.695	13.681	13.746	13.729	13.677
12/26/16 6:00	13.738	13.732	13.727	13.725	13.751	13.755	13.718
12/26/16 8:00	13.776	13.782	13.757	13.763	13.796	13.790	13.755
12/26/16 10:00	13.816	13.797	13.804	13.792	13.844	13.834	13.786
12/26/16 12:00	13.822	13.820	13.817	13.814	13.858	13.840	13.807
12/26/16 14:00	13.817	13.827	13.804	13.811	13.884	13.837	13.803
12/26/16 16:00	13.838	13.825	13.829	13.817	13.890	13.857	13.811
12/26/16 18:00	13.857	13.859	13.851	13.850	13.883	13.876	13.843
12/26/16 20:00	13.872	13.881	13.858	13.866	13.923	13.890	13.857
12/26/16 22:00	13.884	13.871	13.874	13.863	13.943	13.902	13.858
12/27/16 0:00	13.886	13.888	13.883	13.883	13.932	13.905	13.875
12/27/16 2:00	13.877	13.886	13.865	13.873	13.953	13.894	13.865
12/27/16 4:00	13.880	13.867	13.874	13.864	13.948	13.898	13.859
12/27/16 6:00	13.874	13.876	13.873	13.874	13.929	13.891	13.867

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/27/16 8:00	13.869	13.881	13.862	13.870	13.941	13.887	13.863
12/27/16 10:00	13.866	13.857	13.866	13.858	13.947	13.885	13.852
12/27/16 12:00	13.841	13.847	13.846	13.847	13.919	13.861	13.840
12/27/16 14:00	13.792	13.806	13.788	13.797	13.912	13.812	13.789
12/27/16 16:00	13.775	13.767	13.774	13.767	13.872	13.795	13.760
12/27/16 18:00	13.759	13.766	13.761	13.763	13.828	13.779	13.754
12/27/16 20:00	13.750	13.761	13.742	13.751	13.829	13.767	13.743
12/27/16 22:00	13.729	13.721	13.729	13.723	13.827	13.748	13.716
12/28/16 0:00	13.719	13.724	13.723	13.726	13.781	13.737	13.718
12/28/16 2:00	13.706	13.719	13.703	13.713	13.793	13.724	13.705
12/28/16 4:00	13.700	13.693	13.703	13.697	13.784	13.717	13.691
12/28/16 6:00	13.703	13.710	13.710	13.713	13.758	13.722	13.705
12/28/16 8:00	13.729	13.743	13.728	13.736	13.777	13.746	13.729
12/28/16 10:00	13.751	13.746	13.754	13.748	13.807	13.770	13.743
12/28/16 12:00	13.764	13.772	13.770	13.771	13.809	13.784	13.764
12/28/16 14:00	13.755	13.768	13.751	13.758	13.839	13.773	13.751
12/28/16 16:00	13.771	13.767	13.771	13.763	13.835	13.791	13.758
12/28/16 18:00	13.794	13.800	13.795	13.795	13.828	13.812	13.788
12/28/16 20:00	13.837	13.850	13.831	13.837	13.864	13.855	13.830
12/28/16 22:00	13.868	13.862	13.866	13.857	13.916	13.886	13.852
12/29/16 0:00	13.893	13.898	13.896	13.896	13.922	13.911	13.889
12/29/16 2:00	13.906	13.922	13.905	13.914	13.966	13.925	13.907
12/29/16 4:00	13.919	13.917	13.924	13.918	13.987	13.939	13.912
12/29/16 6:00	13.935	13.944	13.944	13.947	13.975	13.955	13.939
12/29/16 8:00	13.954	13.971	13.958	13.966	14.012	13.973	13.960
12/29/16 10:00	13.976	13.975	13.984	13.980	14.037	13.996	13.974
12/29/16 12:00	13.970	13.989	13.977	13.988	14.038	13.991	13.979
12/29/16 14:00	13.947	13.950	13.958	13.955	14.056	13.968	13.947
12/29/16 16:00	13.936	13.946	13.948	13.951	14.016	13.956	13.942
12/29/16 18:00	13.930	13.947	13.934	13.944	14.014	13.950	13.935
12/29/16 20:00	13.927	13.930	13.936	13.933	14.011	13.946	13.926
12/29/16 22:00	13.918	13.929	13.932	13.934	13.994	13.938	13.927
12/30/16 0:00	13.895	13.913	13.903	13.913	13.996	13.914	13.904
12/30/16 2:00	13.860	13.864	13.873	13.870	13.982	13.879	13.864
12/30/16 4:00	13.819	13.829	13.834	13.836	13.928	13.837	13.828
12/30/16 6:00	13.782	13.800	13.791	13.800	13.896	13.799	13.791
12/30/16 8:00	13.754	13.757	13.769	13.766	13.867	13.773	13.759
12/30/16 10:00	13.727	13.740	13.744	13.748	13.822	13.746	13.739
12/30/16 12:00	13.685	13.706	13.698	13.707	13.811	13.705	13.698
12/30/16 14:00	13.625	13.633	13.639	13.637	13.774	13.646	13.630
12/30/16 16:00	13.596	13.606	13.608	13.613	13.698	13.614	13.603
12/30/16 18:00	13.576	13.592	13.580	13.588	13.675	13.594	13.581
12/30/16 20:00	13.578	13.581	13.587	13.584	13.658	13.598	13.577
12/30/16 22:00	13.578	13.586	13.587	13.592	13.646	13.596	13.583
12/31/16 0:00	13.605	13.623	13.610	13.621	13.654	13.624	13.612
12/31/16 2:00	13.621	13.624	13.632	13.628	13.692	13.639	13.621
12/31/16 4:00	13.640	13.651	13.654	13.657	13.688	13.659	13.649

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/31/16 6:00	13.664	13.681	13.671	13.678	13.718	13.681	13.671
12/31/16 8:00	13.689	13.692	13.702	13.699	13.750	13.707	13.692
12/31/16 10:00	13.714	13.726	13.731	13.733	13.757	13.733	13.726
12/31/16 12:00	13.712	13.734	13.725	13.734	13.798	13.733	13.725
12/31/16 14:00	13.698	13.704	13.712	13.710	13.802	13.718	13.702
12/31/16 16:00	13.690	13.703	13.705	13.708	13.767	13.710	13.699
12/31/16 18:00	13.692	13.710	13.700	13.709	13.772	13.711	13.701
12/31/16 20:00	13.708	13.712	13.722	13.719	13.777	13.727	13.711
12/31/16 22:00	13.712	13.724	13.728	13.730	13.779	13.730	13.722
1/1/17 0:00	13.705	13.725	13.715	13.724	13.792	13.722	13.716
1/1/17 2:00	13.698	13.700	13.712	13.708	13.793	13.714	13.701
1/1/17 4:00	13.693	13.704	13.710	13.714	13.767	13.710	13.704
1/1/17 6:00	13.691	13.710	13.704	13.711	13.773	13.709	13.703
1/1/17 8:00	13.691	13.697	13.708	13.705	13.779	13.710	13.698
1/1/17 10:00	13.693	13.709	13.713	13.714	13.762	13.713	13.706
1/1/17 12:00	13.669	13.690	13.683	13.692	13.779	13.690	13.682
1/1/17 14:00	13.628	13.635	13.645	13.641	13.759	13.650	13.634
1/1/17 16:00	13.612	13.627	13.629	13.630	13.699	13.633	13.623
1/1/17 18:00	13.618	13.636	13.625	13.634	13.697	13.637	13.626
1/1/17 20:00	13.626	13.630	13.637	13.633	13.703	13.644	13.626
1/1/17 22:00	13.629	13.642	13.644	13.646	13.697	13.647	13.638
1/2/17 0:00	13.629	13.649	13.640	13.647	13.711	13.649	13.640
1/2/17 2:00	13.612	13.619	13.628	13.624	13.715	13.633	13.616
1/2/17 4:00	13.613	13.625	13.629	13.630	13.684	13.633	13.622
1/2/17 6:00	13.603	13.621	13.609	13.617	13.694	13.621	13.610
1/2/17 8:00	13.624	13.628	13.635	13.629	13.691	13.643	13.622
1/2/17 10:00	13.639	13.651	13.651	13.651	13.693	13.657	13.644
1/2/17 12:00	13.637	13.655	13.642	13.649	13.716	13.656	13.641
1/2/17 14:00	13.628	13.631	13.637	13.629	13.723	13.647	13.622
1/2/17 16:00	13.666	13.675	13.677	13.675	13.695	13.685	13.668
1/2/17 18:00	13.700	13.716	13.701	13.708	13.745	13.718	13.698
1/2/17 20:00	13.732	13.735	13.738	13.730	13.781	13.751	13.723
1/2/17 22:00	13.764	13.772	13.772	13.771	13.795	13.782	13.763
1/3/17 0:00	13.788	13.803	13.788	13.792	13.840	13.806	13.787
1/3/17 2:00	13.801	13.802	13.807	13.798	13.869	13.818	13.792
1/3/17 4:00	13.816	13.824	13.825	13.826	13.867	13.834	13.819
1/3/17 6:00	13.832	13.848	13.838	13.845	13.893	13.849	13.838
1/3/17 8:00	13.866	13.872	13.880	13.876	13.914	13.884	13.870
1/3/17 10:00	13.894	13.907	13.911	13.911	13.937	13.911	13.904
1/3/17 12:00	13.894	13.913	13.905	13.914	13.974	13.912	13.905
1/3/17 14:00	13.885	13.892	13.902	13.899	13.983	13.905	13.891
1/3/17 16:00	13.885	13.897	13.902	13.904	13.956	13.903	13.896
1/3/17 18:00	13.891	13.910	13.903	13.911	13.969	13.910	13.902
1/3/17 20:00	13.910	13.918	13.926	13.922	13.979	13.927	13.915
1/3/17 22:00	13.909	13.922	13.928	13.930	13.980	13.927	13.921
1/4/17 0:00	13.905	13.924	13.919	13.925	13.994	13.923	13.918
1/4/17 2:00	13.903	13.910	13.921	13.917	13.993	13.919	13.909

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/4/17 4:00	13.906	13.922	13.927	13.928	13.978	13.923	13.919
1/4/17 6:00	13.897	13.917	13.912	13.918	13.991	13.914	13.910
1/4/17 8:00	13.893	13.902	13.913	13.909	13.984	13.911	13.903
1/4/17 10:00	13.874	13.890	13.896	13.897	13.970	13.892	13.889
1/4/17 12:00	13.848	13.871	13.867	13.874	13.961	13.868	13.865
1/4/17 14:00	13.805	13.815	13.826	13.822	13.942	13.824	13.815
1/4/17 16:00	13.789	13.806	13.812	13.814	13.882	13.808	13.805
1/4/17 18:00	13.800	13.822	13.817	13.823	13.874	13.818	13.815
1/4/17 20:00	13.822	13.831	13.841	13.836	13.891	13.839	13.830
1/4/17 22:00	13.817	13.836	13.841	13.842	13.896	13.837	13.833
1/5/17 0:00	13.825	13.845	13.842	13.848	13.907	13.842	13.839
1/5/17 2:00	13.817	13.827	13.838	13.836	13.914	13.835	13.827
1/5/17 4:00	13.811	13.826	13.832	13.831	13.896	13.827	13.824
1/5/17 6:00	13.832	13.856	13.851	13.856	13.897	13.850	13.847
1/5/17 8:00	13.845	13.854	13.865	13.863	13.922	13.862	13.854
1/5/17 10:00	13.849	13.865	13.871	13.871	13.923	13.866	13.863
1/5/17 12:00	13.855	13.878	13.875	13.880	13.935	13.874	13.871
1/5/17 14:00	13.825	13.838	13.848	13.844	13.949	13.845	13.837
1/5/17 16:00	13.834	13.853	13.858	13.859	13.904	13.853	13.850
1/5/17 18:00	13.843	13.863	13.861	13.864	13.921	13.859	13.857
1/5/17 20:00	13.852	13.860	13.872	13.869	13.935	13.868	13.861
1/5/17 22:00	13.864	13.879	13.884	13.883	13.927	13.878	13.875
1/6/17 0:00	13.857	13.876	13.874	13.878	13.950	13.872	13.870
1/6/17 2:00	13.864	13.872	13.882	13.880	13.946	13.878	13.872
1/6/17 4:00	13.869	13.890	13.897	13.898	13.942	13.885	13.888
1/6/17 6:00	13.864	13.878	13.882	13.881	13.964	13.876	13.875
1/6/17 8:00	13.870	13.892	13.892	13.890	13.947	13.885	13.883
1/6/17 10:00	13.886	13.896	13.904	13.904	13.964	13.900	13.897
1/6/17 12:00	13.887	13.904	13.910	13.912	13.964	13.904	13.903
1/6/17 14:00	13.866	13.890	13.893	13.891	13.977	13.884	13.882
1/6/17 16:00	13.874	13.892	13.898	13.897	13.962	13.895	13.890
1/6/17 18:00	13.887	13.905	13.913	13.913	13.956	13.905	13.904
1/6/17 20:00	13.908	13.930	13.930	13.931	13.977	13.923	13.922
1/6/17 22:00	13.915	13.927	13.935	13.934	14.001	13.931	13.927
1/7/17 0:00	13.923	13.942	13.947	13.947	13.997	13.939	13.939
1/7/17 2:00	13.934	13.958	13.958	13.956	14.012	13.951	13.948
1/7/17 4:00	13.963	13.978	13.984	13.983	14.027	13.980	13.977
1/7/17 6:00	13.972	13.992	13.997	13.997	14.047	13.990	13.989
1/7/17 8:00	14.002	14.026	14.027	14.026	14.062	14.020	14.018
1/7/17 10:00	14.029	14.045	14.053	14.053	14.099	14.047	14.046
1/7/17 12:00	14.037	14.058	14.064	14.064	14.115	14.057	14.057
1/7/17 14:00	14.024	14.050	14.051	14.050	14.128	14.043	14.041
1/7/17 16:00	14.020	14.039	14.046	14.046	14.123	14.041	14.038
1/7/17 18:00	14.019	14.042	14.047	14.047	14.107	14.040	14.039
1/7/17 20:00	14.027	14.053	14.055	14.054	14.115	14.046	14.045
1/7/17 22:00	14.029	14.045	14.052	14.050	14.125	14.046	14.044
1/8/17 0:00	13.995	14.017	14.022	14.023	14.111	14.014	14.013

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/8/17 2:00	13.968	13.994	13.995	13.994	14.090	13.987	13.986
1/8/17 4:00	13.954	13.972	13.980	13.982	14.065	13.975	13.973
1/8/17 6:00	13.894	13.915	13.921	13.920	14.045	13.913	13.912
1/8/17 8:00	13.883	13.905	13.906	13.907	13.988	13.899	13.898
1/8/17 10:00	13.870	13.886	13.894	13.893	13.976	13.888	13.885
1/8/17 12:00	13.845	13.868	13.875	13.875	13.957	13.866	13.866
1/8/17 14:00	13.814	13.844	13.844	13.844	13.939	13.837	13.835
1/8/17 16:00	13.828	13.845	13.852	13.851	13.918	13.850	13.845
1/8/17 18:00	13.840	13.861	13.866	13.867	13.914	13.860	13.859
1/8/17 20:00	13.852	13.877	13.877	13.877	13.930	13.872	13.869
1/8/17 22:00	13.858	13.875	13.881	13.880	13.951	13.878	13.873
1/9/17 0:00	13.858	13.879	13.883	13.884	13.943	13.877	13.876
1/9/17 2:00	13.835	13.861	13.862	13.863	13.953	13.855	13.853
1/9/17 4:00	13.805	13.820	13.828	13.827	13.934	13.823	13.820
1/9/17 6:00	13.766	13.789	13.794	13.795	13.888	13.786	13.785
1/9/17 8:00	13.744	13.770	13.770	13.770	13.861	13.765	13.762
1/9/17 10:00	13.711	13.729	13.735	13.736	13.842	13.732	13.728
1/9/17 12:00	13.666	13.690	13.693	13.695	13.800	13.688	13.686
1/9/17 14:00	13.606	13.633	13.632	13.630	13.759	13.627	13.624
1/9/17 16:00	13.586	13.599	13.605	13.606	13.703	13.607	13.600
1/9/17 18:00	13.570	13.584	13.591	13.593	13.668	13.589	13.584
1/9/17 20:00	13.550	13.575	13.570	13.570	13.655	13.569	13.562
1/9/17 22:00	13.512	13.524	13.528	13.530	13.646	13.532	13.523
1/10/17 0:00	13.479	13.495	13.498	13.499	13.590	13.497	13.491
1/10/17 2:00	13.457	13.476	13.472	13.469	13.563	13.470	13.463
1/10/17 4:00	13.458	13.467	13.471	13.473	13.549	13.466	13.466
1/10/17 6:00	13.509	13.525	13.527	13.527	13.533	13.530	13.521
1/10/17 8:00	13.589	13.612	13.605	13.602	13.597	13.608	13.596
1/10/17 10:00	13.657	13.662	13.666	13.667	13.682	13.676	13.661
1/10/17 12:00	13.683	13.696	13.698	13.698	13.730	13.703	13.692
1/10/17 14:00	13.659	13.682	13.675	13.674	13.766	13.678	13.665
1/10/17 16:00	13.659	13.665	13.667	13.667	13.751	13.679	13.662
1/10/17 18:00	13.662	13.675	13.677	13.677	13.730	13.683	13.671
1/10/17 20:00	13.641	13.664	13.655	13.654	13.743	13.661	13.646
1/10/17 22:00	13.630	13.636	13.636	13.637	13.735	13.650	13.633
1/11/17 0:00	13.613	13.626	13.627	13.629	13.700	13.633	13.621
1/11/17 2:00	13.585	13.609	13.602	13.602	13.693	13.606	13.593
1/11/17 4:00	13.556	13.561	13.562	13.567	13.680	13.576	13.561
1/11/17 6:00	13.521	13.534	13.535	13.539	13.625	13.540	13.530
1/11/17 8:00	13.516	13.536	13.529	13.531	13.605	13.531	13.522
1/11/17 10:00	13.591	13.595	13.599	13.601	13.606	13.607	13.595
1/11/17 12:00	13.629	13.643	13.649	13.652	13.659	13.649	13.643
1/11/17 14:00	13.630	13.652	13.647	13.647	13.714	13.647	13.639
1/11/17 16:00	13.645	13.653	13.657	13.659	13.722	13.664	13.653
1/11/17 18:00	13.663	13.679	13.684	13.686	13.721	13.684	13.677
1/11/17 20:00	13.692	13.714	13.710	13.710	13.749	13.708	13.703
1/11/17 22:00	13.715	13.725	13.730	13.732	13.783	13.732	13.724

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/12/17 0:00	13.734	13.749	13.754	13.755	13.792	13.750	13.747
1/12/17 2:00	13.759	13.782	13.781	13.780	13.820	13.775	13.772
1/12/17 4:00	13.777	13.789	13.795	13.796	13.855	13.793	13.788
1/12/17 6:00	13.794	13.812	13.816	13.817	13.858	13.810	13.809
1/12/17 8:00	13.834	13.856	13.855	13.855	13.881	13.848	13.847
1/12/17 10:00	13.877	13.893	13.900	13.899	13.928	13.896	13.892
1/12/17 12:00	13.891	13.910	13.917	13.917	13.961	13.911	13.910
1/12/17 14:00	13.889	13.916	13.916	13.916	13.984	13.911	13.908
1/12/17 16:00	13.921	13.938	13.944	13.944	13.989	13.941	13.936
1/12/17 18:00	13.933	13.955	13.959	13.961	14.004	13.953	13.951
1/12/17 20:00	13.945	13.970	13.971	13.969	14.028	13.964	13.961
1/12/17 22:00	13.964	13.980	13.986	13.984	14.042	13.983	13.978
1/13/17 0:00	13.967	13.988	13.992	13.992	14.051	13.986	13.984
1/13/17 2:00	13.977	14.002	14.003	14.000	14.060	13.996	13.994
1/13/17 4:00	13.991	14.008	14.014	14.014	14.074	14.010	14.006
1/13/17 6:00	13.987	14.009	14.014	14.014	14.078	14.007	14.006
1/13/17 8:00	13.993	14.019	14.019	14.018	14.081	14.011	14.010
1/13/17 10:00	14.017	14.034	14.042	14.040	14.093	14.037	14.034
1/13/17 12:00	14.004	14.028	14.032	14.033	14.105	14.026	14.025
1/13/17 14:00	13.977	14.005	14.005	14.004	14.099	13.999	13.996
1/13/17 16:00	13.974	13.991	13.998	13.997	14.079	13.994	13.990
1/13/17 18:00	13.972	13.993	13.999	13.998	14.060	13.993	13.991
1/13/17 20:00	13.980	14.006	14.007	14.006	14.068	14.000	13.998
1/13/17 22:00	13.987	14.004	14.011	14.009	14.079	14.007	14.004
1/14/17 0:00	13.981	14.003	14.010	14.010	14.073	14.002	14.001
1/14/17 2:00	13.977	14.004	14.005	14.004	14.078	13.998	13.996
1/14/17 4:00	13.969	13.988	13.994	13.995	14.075	13.990	13.987
1/14/17 6:00	13.970	13.993	13.996	13.998	14.059	13.991	13.989
1/14/17 8:00	13.969	13.997	13.997	13.996	14.065	13.990	13.988
1/14/17 10:00	13.990	14.009	14.015	14.014	14.072	14.011	14.008
1/14/17 12:00	13.967	13.990	13.995	13.996	14.079	13.990	13.987
1/14/17 14:00	13.938	13.967	13.965	13.966	14.060	13.961	13.957
1/14/17 16:00	13.934	13.950	13.955	13.956	14.039	13.955	13.948
1/14/17 18:00	13.932	13.954	13.958	13.958	14.017	13.953	13.949
1/14/17 20:00	13.933	13.959	13.957	13.957	14.026	13.954	13.949
1/14/17 22:00	13.925	13.942	13.947	13.948	14.031	13.947	13.941
1/15/17 0:00	13.926	13.948	13.952	13.953	14.008	13.948	13.944
1/15/17 2:00	13.898	13.924	13.923	13.923	14.021	13.919	13.914
1/15/17 4:00	13.888	13.902	13.909	13.910	13.995	13.909	13.902
1/15/17 6:00	13.881	13.903	13.906	13.908	13.974	13.902	13.899
1/15/17 8:00	13.865	13.892	13.890	13.890	13.974	13.877	13.882
1/15/17 10:00	13.874	13.887	13.894	13.895	13.962	13.882	13.888
1/15/17 12:00	13.842	13.857	13.862	13.865	13.956	13.865	13.857
1/15/17 14:00	13.816	13.839	13.830	13.831	13.928	13.836	13.824
1/15/17 16:00	13.800	13.800	13.800	13.804	13.911	13.818	13.800
1/15/17 18:00	13.788	13.794	13.794	13.799	13.866	13.808	13.792
1/15/17 20:00	13.788	13.801	13.786	13.789	13.867	13.795	13.782

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/15/17 22:00	13.781	13.745	13.748	13.755	13.871	13.797	13.753
1/16/17 0:00	13.768	13.749	13.742	13.751	13.811	13.771	13.745
1/16/17 2:00	13.739	13.735	13.720	13.722	13.811	13.715	13.716
1/16/17 4:00	13.711	13.632	13.641	13.651	13.807	13.705	13.648
1/16/17 6:00	13.683	13.560	13.554	13.545	13.704	13.582	13.539
1/16/17 8:00	13.695	13.480	13.479	13.415	13.612	13.443	13.423
1/16/17 10:00	13.691	13.340	13.317	13.287	13.568	13.379	13.282
1/16/17 12:00	13.699	13.351	13.360	13.317	13.373	13.379	13.312
1/16/17 14:00	13.697	13.340	13.361	13.277	13.412	13.284	13.292
1/16/17 16:00	13.714	13.254	13.261	13.244	13.428	13.293	13.228
1/16/17 18:00	13.738	13.334	13.365	13.335	13.331	13.345	13.322
1/16/17 20:00	13.756	13.391	13.412	13.351	13.413	13.322	13.352
1/16/17 22:00	13.762	13.307	13.320	13.303	13.477	13.347	13.291
1/17/17 0:00	13.771	13.395	13.422	13.397	13.383	13.407	13.382
1/17/17 2:00	13.778	13.442	13.461	13.406	13.465	13.373	13.407
1/17/17 4:00	13.782	13.371	13.373	13.369	13.527	13.407	13.354
1/17/17 6:00	13.789	13.455	13.479	13.456	13.438	13.462	13.443
1/17/17 8:00	13.797	13.516	13.527	13.476	13.536	13.441	13.476
1/17/17 10:00	13.806	13.435	13.435	13.434	13.610	13.468	13.420
1/17/17 12:00	13.798	13.452	13.475	13.458	13.499	13.477	13.444
1/17/17 14:00	13.779	13.381	13.404	13.352	13.525	13.329	13.357
1/17/17 16:00	13.784	13.261	13.269	13.253	13.480	13.311	13.244
1/17/17 18:00	13.780	13.340	13.360	13.333	13.321	13.339	13.321
1/17/17 20:00	13.778	13.371	13.379	13.320	13.406	13.284	13.324
1/17/17 22:00	13.790	13.304	13.295	13.280	13.459	13.327	13.272
1/18/17 0:00	13.788	13.392	13.399	13.375	13.352	13.389	13.362
1/18/17 2:00	13.787	13.420	13.421	13.365	13.456	13.329	13.370
1/18/17 4:00	13.770	13.328	13.304	13.302	13.503	13.349	13.289
1/18/17 6:00	13.750	13.387	13.388	13.365	13.364	13.381	13.354
1/18/17 8:00	13.749	13.428	13.424	13.370	13.448	13.331	13.374
1/18/17 10:00	13.747	13.313	13.292	13.292	13.508	13.339	13.276
1/18/17 12:00	13.733	13.355	13.357	13.333	13.353	13.354	13.322
1/18/17 14:00	13.699	13.317	13.301	13.241	13.411	13.225	13.245
1/18/17 16:00	13.687	13.196	13.161	13.142	13.383	13.198	13.133
1/18/17 18:00	13.674	13.272	13.249	13.216	13.227	13.232	13.206
1/18/17 20:00	13.669	13.306	13.275	13.210	13.312	13.183	13.215
1/18/17 22:00	13.658	13.195	13.151	13.126	13.372	13.199	13.118
1/19/17 0:00	13.645	13.258	13.234	13.203	13.222	13.271	13.189
1/19/17 2:00	13.633	13.270	13.243	13.178	13.300	13.217	13.184
1/19/17 4:00	13.617	13.136	13.108	13.093	13.338	13.217	13.082
1/19/17 6:00	13.605	13.200	13.197	13.166	13.173	13.253	13.154
1/19/17 8:00	13.593	13.229	13.219	13.156	13.260	13.198	13.161
1/19/17 10:00	13.593	13.119	13.101	13.095	13.307	13.217	13.078
1/19/17 12:00	13.580	13.204	13.212	13.180	13.160	13.260	13.170
1/19/17 14:00	13.558	13.266	13.255	13.189	13.268	13.228	13.196
1/19/17 16:00	13.560	13.195	13.188	13.165	13.339	13.266	13.160
1/19/17 18:00	13.560	13.274	13.287	13.252	13.247	13.315	13.243

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/19/17 20:00	13.550	13.334	13.328	13.265	13.337	13.294	13.269
1/19/17 22:00	13.549	13.239	13.249	13.218	13.413	13.311	13.216
1/20/17 0:00	13.545	13.318	13.334	13.301	13.298	13.353	13.291
1/20/17 2:00	13.529	13.371	13.372	13.312	13.384	13.413	13.312
1/20/17 4:00	13.524	13.271	13.291	13.268	13.450	13.417	13.262
1/20/17 6:00	13.519	13.338	13.362	13.327	13.332	13.433	13.316
1/20/17 8:00	13.509	13.395	13.393	13.337	13.412	13.426	13.335
1/20/17 10:00	13.508	13.301	13.326	13.308	13.480	13.428	13.299
1/20/17 12:00	13.493	13.355	13.383	13.351	13.365	13.427	13.340
1/20/17 14:00	13.466	13.387	13.383	13.336	13.428	13.396	13.330
1/20/17 16:00	13.453	13.260	13.288	13.269	13.461	13.377	13.261
1/20/17 18:00	13.472	13.354	13.385	13.356	13.329	13.435	13.347
1/20/17 20:00	13.474	13.427	13.424	13.384	13.430	13.447	13.376
1/20/17 22:00	13.479	13.356	13.393	13.373	13.500	13.409	13.367
1/21/17 0:00	13.480	13.398	13.425	13.399	13.432	13.455	13.388
1/21/17 2:00	13.479	13.447	13.442	13.406	13.473	13.452	13.396
1/21/17 4:00	13.481	13.373	13.409	13.394	13.522	13.457	13.387
1/21/17 6:00	13.489	13.421	13.447	13.422	13.446	13.431	13.412
1/21/17 8:00	13.494	13.477	13.469	13.435	13.501	13.485	13.424
1/21/17 10:00	13.499	13.405	13.438	13.423	13.550	13.478	13.417
1/21/17 12:00	13.499	13.435	13.464	13.443	13.479	13.492	13.430
1/21/17 14:00	13.475	13.466	13.454	13.425	13.512	13.466	13.413
1/21/17 16:00	13.482	13.434	13.448	13.435	13.535	13.479	13.431
1/21/17 18:00	13.499	13.484	13.490	13.478	13.504	13.500	13.467
1/21/17 20:00	13.518	13.531	13.514	13.498	13.552	13.516	13.487
1/21/17 22:00	13.537	13.514	13.519	13.511	13.596	13.537	13.507
1/22/17 0:00	13.558	13.549	13.552	13.540	13.581	13.559	13.531
1/22/17 2:00	13.566	13.579	13.565	13.549	13.616	13.567	13.538
1/22/17 4:00	13.594	13.572	13.577	13.572	13.649	13.597	13.565
1/22/17 6:00	13.611	13.602	13.607	13.595	13.638	13.624	13.585
1/22/17 8:00	13.640	13.655	13.641	13.625	13.670	13.653	13.614
1/22/17 10:00	13.672	13.654	13.661	13.656	13.724	13.686	13.649
1/22/17 12:00	13.682	13.676	13.683	13.673	13.719	13.700	13.663
1/22/17 14:00	13.673	13.690	13.675	13.661	13.747	13.689	13.651
1/22/17 16:00	13.682	13.667	13.670	13.664	13.759	13.697	13.660
1/22/17 18:00	13.691	13.688	13.691	13.683	13.730	13.706	13.673
1/22/17 20:00	13.698	13.716	13.702	13.690	13.757	13.713	13.680
1/22/17 22:00	13.702	13.692	13.694	13.690	13.784	13.717	13.686
1/23/17 0:00	13.707	13.708	13.711	13.703	13.759	13.722	13.693
1/23/17 2:00	13.694	13.711	13.699	13.687	13.776	13.708	13.678
1/23/17 4:00	13.684	13.675	13.678	13.676	13.778	13.700	13.670
1/23/17 6:00	13.674	13.676	13.679	13.672	13.742	13.692	13.663
1/23/17 8:00	13.669	13.688	13.676	13.665	13.744	13.684	13.655
1/23/17 10:00	13.667	13.659	13.665	13.662	13.758	13.683	13.656
1/23/17 12:00	13.631	13.633	13.638	13.633	13.726	13.649	13.622
1/23/17 14:00	13.583	13.607	13.594	13.583	13.700	13.602	13.573
1/23/17 16:00	13.573	13.566	13.569	13.566	13.677	13.589	13.560

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/23/17 18:00	13.574	13.575	13.580	13.572	13.632	13.593	13.564
1/23/17 20:00	13.579	13.599	13.587	13.575	13.646	13.598	13.566
1/23/17 22:00	13.575	13.569	13.572	13.569	13.668	13.594	13.564
1/24/17 0:00	13.565	13.567	13.569	13.563	13.635	13.582	13.554
1/24/17 2:00	13.544	13.564	13.552	13.541	13.638	13.563	13.532
1/24/17 4:00	13.517	13.516	13.518	13.518	13.633	13.539	13.510
1/24/17 6:00	13.508	13.510	13.513	13.506	13.584	13.526	13.497
1/24/17 8:00	13.500	13.522	13.510	13.498	13.580	13.521	13.490
1/24/17 10:00	13.507	13.501	13.504	13.502	13.590	13.525	13.497
1/24/17 12:00	13.495	13.498	13.502	13.494	13.569	13.514	13.487
1/24/17 14:00	13.490	13.510	13.499	13.488	13.566	13.508	13.479
1/24/17 16:00	13.519	13.512	13.515	13.512	13.582	13.536	13.508
1/24/17 18:00	13.544	13.545	13.549	13.543	13.579	13.562	13.535
1/24/17 20:00	13.568	13.588	13.576	13.567	13.617	13.586	13.557
1/24/17 22:00	13.586	13.582	13.585	13.582	13.658	13.604	13.578
1/25/17 0:00	13.609	13.614	13.617	13.610	13.648	13.629	13.602
1/25/17 2:00	13.638	13.658	13.646	13.637	13.686	13.655	13.629
1/25/17 4:00	13.660	13.655	13.657	13.656	13.728	13.677	13.650
1/25/17 6:00	13.676	13.678	13.681	13.675	13.724	13.692	13.667
1/25/17 8:00	13.699	13.718	13.708	13.698	13.748	13.715	13.690
1/25/17 10:00	13.720	13.716	13.720	13.720	13.786	13.737	13.714
1/25/17 12:00	13.731	13.735	13.741	13.736	13.785	13.751	13.726
1/25/17 14:00	13.729	13.750	13.740	13.730	13.804	13.748	13.723
1/25/17 16:00	13.750	13.747	13.751	13.750	13.822	13.768	13.744
1/25/17 18:00	13.773	13.777	13.781	13.776	13.814	13.791	13.767
1/25/17 20:00	13.783	13.804	13.792	13.784	13.848	13.800	13.775
1/25/17 22:00	13.790	13.786	13.789	13.788	13.873	13.808	13.783
1/26/17 0:00	13.807	13.811	13.814	13.809	13.853	13.824	13.800
1/26/17 2:00	13.811	13.832	13.821	13.813	13.884	13.828	13.803
1/26/17 4:00	13.814	13.812	13.815	13.815	13.901	13.832	13.809
1/26/17 6:00	13.817	13.823	13.827	13.822	13.882	13.835	13.813
1/26/17 8:00	13.831	13.853	13.843	13.834	13.894	13.849	13.825
1/26/17 10:00	13.843	13.842	13.847	13.846	13.921	13.861	13.841
1/26/17 12:00	13.838	13.845	13.852	13.847	13.911	13.859	13.839
1/26/17 14:00	13.822	13.846	13.837	13.829	13.914	13.844	13.820
1/26/17 16:00	13.820	13.821	13.825	13.824	13.919	13.840	13.818
1/26/17 18:00	13.827	13.833	13.839	13.833	13.890	13.847	13.825
1/26/17 20:00	13.840	13.862	13.852	13.845	13.901	13.858	13.834
1/26/17 22:00	13.844	13.844	13.847	13.845	13.932	13.862	13.840
1/27/17 0:00	13.849	13.856	13.859	13.853	13.909	13.867	13.845
1/27/17 2:00	13.845	13.867	13.858	13.850	13.928	13.864	13.840
1/27/17 4:00	13.848	13.848	13.851	13.852	13.938	13.866	13.845
1/27/17 6:00	13.849	13.858	13.861	13.856	13.917	13.868	13.848
1/27/17 8:00	13.857	13.879	13.870	13.863	13.929	13.875	13.853
1/27/17 10:00	13.857	13.859	13.862	13.864	13.948	13.877	13.856
1/27/17 12:00	13.844	13.851	13.858	13.854	13.927	13.864	13.845
1/27/17 14:00	13.813	13.838	13.830	13.823	13.922	13.835	13.814

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/27/17 16:00	13.809	13.810	13.815	13.814	13.911	13.828	13.808
1/27/17 18:00	13.810	13.816	13.822	13.817	13.879	13.829	13.809
1/27/17 20:00	13.819	13.841	13.832	13.825	13.886	13.838	13.816
1/27/17 22:00	13.827	13.828	13.831	13.830	13.913	13.846	13.824
1/28/17 0:00	13.839	13.846	13.850	13.845	13.894	13.858	13.837
1/28/17 2:00	13.836	13.859	13.850	13.842	13.920	13.856	13.833
1/28/17 4:00	13.834	13.834	13.838	13.838	13.928	13.852	13.831
1/28/17 6:00	13.828	13.835	13.840	13.835	13.900	13.847	13.826
1/28/17 8:00	13.828	13.852	13.843	13.836	13.907	13.849	13.826
1/28/17 10:00	13.829	13.833	13.837	13.837	13.921	13.850	13.831
1/28/17 12:00	13.822	13.831	13.837	13.834	13.902	13.845	13.824
1/28/17 14:00	13.794	13.819	13.810	13.804	13.902	13.816	13.793
1/28/17 16:00	13.784	13.788	13.790	13.791	13.892	13.805	13.785
1/28/17 18:00	13.780	13.786	13.792	13.788	13.856	13.800	13.779
1/28/17 20:00	13.793	13.816	13.807	13.799	13.857	13.813	13.790
1/28/17 22:00	13.799	13.802	13.804	13.803	13.888	13.819	13.797
1/29/17 0:00	13.812	13.821	13.824	13.819	13.869	13.832	13.811
1/29/17 2:00	13.804	13.827	13.817	13.810	13.891	13.823	13.800
1/29/17 4:00	13.805	13.808	13.811	13.812	13.897	13.826	13.804
1/29/17 6:00	13.799	13.809	13.812	13.807	13.875	13.821	13.799
1/29/17 8:00	13.797	13.821	13.811	13.804	13.882	13.818	13.794
1/29/17 10:00	13.802	13.804	13.807	13.808	13.891	13.821	13.800
1/29/17 12:00	13.803	13.807	13.813	13.809	13.870	13.822	13.800
1/29/17 14:00	13.798	13.819	13.808	13.802	13.880	13.815	13.792
1/29/17 16:00	13.796	13.798	13.800	13.800	13.888	13.816	13.795
1/29/17 18:00	13.798	13.807	13.812	13.808	13.868	13.820	13.798
1/29/17 20:00	13.798	13.821	13.812	13.805	13.878	13.819	13.795
1/29/17 22:00	13.796	13.800	13.802	13.800	13.890	13.816	13.795
1/30/17 0:00	13.785	13.796	13.798	13.794	13.868	13.805	13.784
1/30/17 2:00	13.772	13.797	13.787	13.780	13.864	13.792	13.769
1/30/17 4:00	13.759	13.761	13.763	13.764	13.868	13.779	13.758
1/30/17 6:00	13.741	13.751	13.754	13.749	13.829	13.762	13.740
1/30/17 8:00	13.737	13.762	13.752	13.746	13.825	13.758	13.736
1/30/17 10:00	13.736	13.738	13.742	13.741	13.832	13.755	13.735
1/30/17 12:00	13.735	13.752	13.741	13.744	13.806	13.754	13.734
1/30/17 14:00	13.726	13.750	13.755	13.751	13.824	13.743	13.748
1/30/17 16:00	13.724	13.725	13.731	13.722	13.825	13.740	13.714
1/30/17 18:00	13.719	13.730	13.727	13.732	13.796	13.740	13.723
1/30/17 20:00	13.721	13.744	13.737	13.733	13.801	13.742	13.724
1/30/17 22:00	13.727	13.733	13.739	13.731	13.812	13.747	13.724
1/31/17 0:00	13.743	13.752	13.748	13.752	13.804	13.760	13.744
1/31/17 2:00	13.742	13.765	13.759	13.754	13.821	13.762	13.745
1/31/17 4:00	13.739	13.744	13.751	13.742	13.837	13.758	13.735
1/31/17 6:00	13.748	13.758	13.757	13.761	13.814	13.767	13.752
1/31/17 8:00	13.746	13.768	13.762	13.757	13.828	13.765	13.749
1/31/17 10:00	13.759	13.767	13.774	13.764	13.839	13.780	13.759
1/31/17 12:00	13.748	13.761	13.758	13.763	13.835	13.770	13.754

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
1/31/17 14:00	13.717	13.740	13.734	13.730	13.833	13.739	13.722
1/31/17 16:00	13.707	13.709	13.718	13.708	13.812	13.725	13.703
1/31/17 18:00	13.711	13.721	13.719	13.723	13.779	13.731	13.715
1/31/17 20:00	13.735	13.758	13.753	13.748	13.792	13.756	13.741
1/31/17 22:00	13.748	13.756	13.762	13.755	13.829	13.769	13.748
2/1/17 0:00	13.775	13.787	13.785	13.788	13.828	13.796	13.781
2/1/17 2:00	13.789	13.810	13.805	13.800	13.858	13.808	13.792
2/1/17 4:00	13.800	13.802	13.811	13.801	13.879	13.818	13.796
2/1/17 6:00	13.831	13.841	13.839	13.843	13.873	13.851	13.836
2/1/17 8:00	13.838	13.863	13.857	13.853	13.911	13.860	13.845
2/1/17 10:00	13.863	13.872	13.878	13.870	13.935	13.884	13.864
2/1/17 12:00	13.883	13.893	13.891	13.896	13.941	13.903	13.889
2/1/17 14:00	13.877	13.902	13.895	13.891	13.967	13.899	13.883
2/1/17 16:00	13.887	13.897	13.903	13.895	13.973	13.908	13.889
2/1/17 18:00	13.914	13.928	13.926	13.931	13.965	13.936	13.922
2/1/17 20:00	13.949	13.970	13.965	13.961	13.999	13.967	13.953
2/1/17 22:00	13.967	13.973	13.980	13.973	14.040	13.986	13.967
2/2/17 0:00	13.971	13.982	13.980	13.985	14.045	13.991	13.978
2/2/17 2:00	13.975	13.997	13.992	13.988	14.053	13.995	13.980
2/2/17 4:00	13.974	13.980	13.988	13.981	14.066	13.993	13.975
2/2/17 6:00	13.983	13.989	13.990	13.992	14.052	13.999	13.986
2/2/17 8:00	14.003	14.024	14.020	14.016	14.060	14.021	14.008
2/2/17 10:00	14.004	14.011	14.020	14.013	14.097	14.025	14.006
2/2/17 12:00	13.988	14.001	14.000	14.005	14.080	14.009	13.997
2/2/17 14:00	13.955	13.980	13.975	13.972	14.070	13.977	13.964
2/2/17 16:00	13.937	13.945	13.952	13.946	14.052	13.957	13.938
2/2/17 18:00	13.928	13.940	13.939	13.944	14.013	13.948	13.936
2/2/17 20:00	13.932	13.955	13.950	13.947	14.012	13.952	13.938
2/2/17 22:00	13.939	13.947	13.954	13.948	14.026	13.960	13.941
2/3/17 0:00	13.953	13.964	13.963	13.967	14.014	13.972	13.960
2/3/17 2:00	13.963	13.985	13.981	13.978	14.035	13.983	13.970
2/3/17 4:00	13.972	13.980	13.988	13.981	14.056	13.992	13.975
2/3/17 6:00	13.985	13.997	13.996	14.000	14.048	14.004	13.993
2/3/17 8:00	14.002	14.026	14.021	14.017	14.068	14.022	14.010
2/3/17 10:00	14.012	14.021	14.029	14.022	14.096	14.033	14.016
2/3/17 12:00	14.000	14.012	14.013	14.018	14.092	14.021	14.009
2/3/17 14:00	13.956	13.983	13.977	13.975	14.083	13.978	13.966
2/3/17 16:00	13.931	13.940	13.948	13.943	14.055	13.953	13.936
2/3/17 18:00	13.910	13.923	13.923	13.927	14.010	13.931	13.919
2/3/17 20:00	13.889	13.913	13.909	13.905	13.993	13.910	13.897
2/3/17 22:00	13.871	13.878	13.887	13.880	13.984	13.891	13.874
2/4/17 0:00	13.838	13.847	13.847	13.851	13.948	13.856	13.844
2/4/17 2:00	13.799	13.823	13.819	13.816	13.921	13.820	13.808
2/4/17 4:00	13.763	13.770	13.779	13.772	13.893	13.782	13.766
2/4/17 6:00	13.737	13.747	13.748	13.751	13.838	13.756	13.746
2/4/17 8:00	13.714	13.737	13.734	13.731	13.819	13.733	13.724
2/4/17 10:00	13.696	13.704	13.713	13.707	13.807	13.716	13.701

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/4/17 12:00	13.679	13.693	13.693	13.698	13.776	13.701	13.691
2/4/17 14:00	13.647	13.672	13.668	13.665	13.764	13.669	13.657
2/4/17 16:00	13.648	13.653	13.660	13.654	13.746	13.664	13.647
2/4/17 18:00	13.662	13.672	13.671	13.676	13.723	13.680	13.669
2/4/17 20:00	13.681	13.704	13.699	13.696	13.741	13.701	13.688
2/4/17 22:00	13.698	13.704	13.713	13.706	13.776	13.717	13.700
2/5/17 0:00	13.738	13.748	13.748	13.751	13.773	13.756	13.744
2/5/17 2:00	13.747	13.769	13.764	13.760	13.821	13.765	13.753
2/5/17 4:00	13.762	13.769	13.777	13.771	13.839	13.782	13.764
2/5/17 6:00	13.771	13.782	13.781	13.786	13.837	13.790	13.779
2/5/17 8:00	13.793	13.815	13.811	13.807	13.854	13.812	13.800
2/5/17 10:00	13.790	13.799	13.806	13.801	13.886	13.810	13.794
2/5/17 12:00	13.778	13.792	13.791	13.797	13.870	13.799	13.789
2/5/17 14:00	13.741	13.765	13.761	13.758	13.863	13.763	13.751
2/5/17 16:00	13.725	13.734	13.740	13.735	13.834	13.745	13.728
2/5/17 18:00	13.725	13.737	13.737	13.742	13.804	13.745	13.734
2/5/17 20:00	13.725	13.746	13.741	13.738	13.807	13.744	13.731
2/5/17 22:00	13.718	13.725	13.732	13.727	13.818	13.737	13.720
2/6/17 0:00	13.700	13.710	13.708	13.714	13.796	13.718	13.707
2/6/17 2:00	13.675	13.698	13.693	13.691	13.783	13.694	13.683
2/6/17 4:00	13.663	13.671	13.678	13.672	13.768	13.682	13.666
2/6/17 6:00	13.642	13.653	13.653	13.657	13.740	13.660	13.650
2/6/17 8:00	13.617	13.639	13.634	13.630	13.725	13.635	13.624
2/6/17 10:00	13.611	13.620	13.628	13.622	13.709	13.628	13.616
2/6/17 12:00	13.570	13.585	13.585	13.590	13.693	13.593	13.582
2/6/17 14:00	13.537	13.561	13.556	13.554	13.655	13.558	13.547
2/6/17 16:00	13.521	13.529	13.537	13.532	13.630	13.541	13.525
2/6/17 18:00	13.523	13.533	13.533	13.537	13.601	13.542	13.531
2/6/17 20:00	13.537	13.560	13.555	13.552	13.604	13.557	13.546
2/6/17 22:00	13.537	13.545	13.552	13.546	13.633	13.556	13.540
2/7/17 0:00	13.538	13.549	13.548	13.554	13.614	13.557	13.546
2/7/17 2:00	13.536	13.558	13.554	13.551	13.618	13.555	13.544
2/7/17 4:00	13.554	13.561	13.569	13.563	13.631	13.573	13.557
2/7/17 6:00	13.572	13.583	13.583	13.587	13.631	13.591	13.581
2/7/17 8:00	13.591	13.613	13.609	13.606	13.656	13.610	13.599
2/7/17 10:00	13.636	13.643	13.651	13.644	13.685	13.654	13.640
2/7/17 12:00	13.659	13.673	13.671	13.677	13.716	13.679	13.669
2/7/17 14:00	13.639	13.665	13.662	13.659	13.742	13.662	13.652
2/7/17 16:00	13.637	13.646	13.653	13.648	13.735	13.657	13.643
2/7/17 18:00	13.650	13.661	13.661	13.665	13.717	13.669	13.660
2/7/17 20:00	13.661	13.684	13.679	13.678	13.732	13.680	13.671
2/7/17 22:00	13.664	13.677	13.682	13.681	13.756	13.685	13.672
2/8/17 0:00	13.693	13.707	13.707	13.712	13.744	13.714	13.705
2/8/17 2:00	13.685	13.709	13.706	13.703	13.776	13.707	13.697
2/8/17 4:00	13.686	13.695	13.704	13.699	13.782	13.707	13.693
2/8/17 6:00	13.750	13.757	13.759	13.760	13.765	13.765	13.757
2/8/17 8:00	13.787	13.805	13.802	13.799	13.830	13.803	13.794

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/8/17 10:00	13.825	13.833	13.842	13.837	13.877	13.844	13.831
2/8/17 12:00	13.846	13.862	13.862	13.867	13.902	13.868	13.860
2/8/17 14:00	13.834	13.858	13.855	13.853	13.934	13.856	13.846
2/8/17 16:00	13.841	13.851	13.859	13.853	13.929	13.861	13.848
2/8/17 18:00	13.843	13.854	13.854	13.861	13.923	13.861	13.853
2/8/17 20:00	13.867	13.885	13.881	13.879	13.926	13.882	13.873
2/8/17 22:00	13.885	13.893	13.899	13.895	13.954	13.902	13.889
2/9/17 0:00	13.876	13.888	13.888	13.894	13.963	13.895	13.886
2/9/17 2:00	13.887	13.908	13.904	13.904	13.958	13.904	13.896
2/9/17 4:00	13.881	13.892	13.899	13.896	13.981	13.901	13.889
2/9/17 6:00	13.876	13.889	13.889	13.896	13.961	13.895	13.887
2/9/17 8:00	13.882	13.906	13.903	13.902	13.957	13.902	13.894
2/9/17 10:00	13.878	13.888	13.897	13.892	13.977	13.898	13.886
2/9/17 12:00	13.842	13.860	13.861	13.866	13.957	13.866	13.858
2/9/17 14:00	13.797	13.821	13.818	13.819	13.933	13.819	13.810
2/9/17 16:00	13.761	13.772	13.780	13.776	13.892	13.783	13.770
2/9/17 18:00	13.751	13.764	13.765	13.770	13.844	13.771	13.763
2/9/17 20:00	13.725	13.749	13.745	13.743	13.836	13.746	13.736
2/9/17 22:00	13.702	13.714	13.720	13.717	13.818	13.723	13.710
2/10/17 0:00	13.676	13.689	13.689	13.695	13.784	13.695	13.687
2/10/17 2:00	13.653	13.676	13.673	13.671	13.759	13.674	13.663
2/10/17 4:00	13.629	13.639	13.647	13.642	13.749	13.649	13.636
2/10/17 6:00	13.623	13.632	13.633	13.639	13.709	13.640	13.631
2/10/17 8:00	13.626	13.649	13.647	13.643	13.702	13.645	13.637
2/10/17 10:00	13.625	13.638	13.644	13.641	13.721	13.647	13.634
2/10/17 12:00	13.623	13.638	13.637	13.643	13.706	13.644	13.636
2/10/17 14:00	13.611	13.631	13.626	13.625	13.709	13.627	13.618
2/10/17 16:00	13.610	13.615	13.623	13.617	13.701	13.625	13.612
2/10/17 18:00	13.612	13.622	13.622	13.628	13.682	13.630	13.621
2/10/17 20:00	13.617	13.643	13.639	13.637	13.694	13.639	13.631
2/10/17 22:00	13.614	13.626	13.633	13.630	13.712	13.636	13.624
2/11/17 0:00	13.605	13.618	13.619	13.625	13.697	13.625	13.618
2/11/17 2:00	13.606	13.631	13.628	13.627	13.689	13.628	13.619
2/11/17 4:00	13.612	13.623	13.630	13.626	13.703	13.633	13.621
2/11/17 6:00	13.637	13.648	13.649	13.654	13.693	13.656	13.649
2/11/17 8:00	13.665	13.688	13.684	13.682	13.719	13.684	13.676
2/11/17 10:00	13.673	13.684	13.692	13.688	13.759	13.693	13.682
2/11/17 12:00	13.677	13.689	13.688	13.696	13.753	13.695	13.687
2/11/17 14:00	13.670	13.687	13.684	13.684	13.761	13.683	13.676
2/11/17 16:00	13.681	13.686	13.693	13.692	13.757	13.695	13.686
2/11/17 18:00	13.717	13.727	13.728	13.735	13.755	13.734	13.730
2/11/17 20:00	13.765	13.788	13.785	13.784	13.800	13.784	13.778
2/11/17 22:00	13.798	13.812	13.818	13.815	13.858	13.820	13.811
2/12/17 0:00	13.842	13.855	13.855	13.863	13.883	13.862	13.858
2/12/17 2:00	13.891	13.916	13.913	13.913	13.927	13.912	13.908
2/12/17 4:00	13.920	13.931	13.938	13.935	13.985	13.940	13.931
2/12/17 6:00	13.949	13.962	13.962	13.970	14.002	13.969	13.963

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/12/17 8:00	13.979	14.003	14.000	14.001	14.031	13.999	13.995
2/12/17 10:00	14.004	14.017	14.025	14.022	14.077	14.026	14.017
2/12/17 12:00	14.009	14.023	14.024	14.032	14.087	14.031	14.025
2/12/17 14:00	13.991	14.016	14.013	14.014	14.096	14.012	14.007
2/12/17 16:00	13.974	13.986	13.993	13.992	14.087	13.994	13.985
2/12/17 18:00	13.963	13.978	13.978	13.986	14.053	13.983	13.979
2/12/17 20:00	13.956	13.981	13.979	13.980	14.050	13.977	13.973
2/12/17 22:00	13.948	13.962	13.969	13.968	14.051	13.970	13.961
2/13/17 0:00	13.937	13.951	13.952	13.960	14.033	13.957	13.953
2/13/17 2:00	13.919	13.944	13.940	13.941	14.023	13.939	13.935
2/13/17 4:00	13.906	13.918	13.926	13.924	14.012	13.927	13.919
2/13/17 6:00	13.897	13.912	13.911	13.920	13.989	13.917	13.913
2/13/17 8:00	13.898	13.922	13.920	13.920	13.982	13.917	13.913
2/13/17 10:00	13.876	13.893	13.899	13.897	13.995	13.900	13.891
2/13/17 12:00	13.856	13.874	13.874	13.881	13.961	13.878	13.873
2/13/17 14:00	13.827	13.854	13.851	13.852	13.943	13.850	13.844
2/13/17 16:00	13.803	13.819	13.826	13.825	13.926	13.827	13.819
2/13/17 18:00	13.802	13.818	13.818	13.827	13.888	13.824	13.819
2/13/17 20:00	13.805	13.830	13.827	13.828	13.891	13.825	13.821
2/13/17 22:00	13.799	13.811	13.820	13.817	13.900	13.820	13.812
2/14/17 0:00	13.802	13.816	13.817	13.824	13.880	13.821	13.817
2/14/17 2:00	13.797	13.821	13.818	13.819	13.888	13.816	13.811
2/14/17 4:00	13.801	13.813	13.820	13.818	13.891	13.821	13.813
2/14/17 6:00	13.812	13.826	13.828	13.835	13.885	13.832	13.828
2/14/17 8:00	13.831	13.856	13.854	13.855	13.898	13.853	13.848
2/14/17 10:00	13.818	13.832	13.840	13.839	13.926	13.840	13.832
2/14/17 12:00	13.808	13.824	13.825	13.833	13.903	13.830	13.826
2/14/17 14:00	13.784	13.808	13.805	13.807	13.893	13.803	13.799
2/14/17 16:00	13.779	13.790	13.799	13.797	13.881	13.799	13.792
2/14/17 18:00	13.788	13.803	13.803	13.810	13.860	13.808	13.804
2/14/17 20:00	13.801	13.825	13.821	13.822	13.871	13.821	13.816
2/14/17 22:00	13.821	13.833	13.842	13.839	13.896	13.841	13.833
2/15/17 0:00	13.824	13.838	13.840	13.845	13.902	13.844	13.840
2/15/17 2:00	13.824	13.849	13.847	13.847	13.911	13.844	13.840
2/15/17 4:00	13.814	13.826	13.833	13.832	13.919	13.834	13.826
2/15/17 6:00	13.821	13.835	13.835	13.842	13.898	13.840	13.836
2/15/17 8:00	13.824	13.848	13.847	13.846	13.906	13.844	13.840
2/15/17 10:00	13.820	13.834	13.842	13.841	13.918	13.842	13.834
2/15/17 12:00	13.797	13.813	13.814	13.821	13.906	13.819	13.814
2/15/17 14:00	13.761	13.786	13.783	13.784	13.883	13.781	13.776
2/15/17 16:00	13.730	13.740	13.747	13.747	13.858	13.748	13.740
2/15/17 18:00	13.712	13.725	13.726	13.734	13.810	13.731	13.727
2/15/17 20:00	13.706	13.732	13.729	13.730	13.795	13.727	13.723
2/15/17 22:00	13.702	13.714	13.722	13.720	13.804	13.722	13.714
2/16/17 0:00	13.693	13.708	13.709	13.716	13.783	13.714	13.710
2/16/17 2:00	13.681	13.706	13.703	13.704	13.780	13.701	13.698
2/16/17 4:00	13.666	13.678	13.685	13.684	13.777	13.685	13.678

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/16/17 6:00	13.658	13.674	13.674	13.683	13.751	13.679	13.675
2/16/17 8:00	13.656	13.680	13.677	13.678	13.746	13.676	13.671
2/16/17 10:00	13.654	13.668	13.676	13.674	13.750	13.676	13.669
2/16/17 12:00	13.641	13.653	13.655	13.662	13.739	13.658	13.655
2/16/17 14:00	13.609	13.629	13.626	13.627	13.724	13.624	13.620
2/16/17 16:00	13.603	13.605	13.613	13.612	13.701	13.613	13.605
2/16/17 18:00	13.590	13.600	13.601	13.609	13.675	13.606	13.602
2/16/17 20:00	13.581	13.608	13.605	13.606	13.670	13.604	13.599
2/16/17 22:00	13.578	13.591	13.599	13.597	13.679	13.599	13.591
2/17/17 0:00	13.569	13.584	13.584	13.592	13.660	13.589	13.586
2/17/17 2:00	13.565	13.591	13.589	13.590	13.657	13.587	13.583
2/17/17 4:00	13.562	13.575	13.584	13.583	13.662	13.583	13.576
2/17/17 6:00	13.566	13.580	13.582	13.589	13.643	13.586	13.582
2/17/17 8:00	13.574	13.596	13.594	13.595	13.652	13.592	13.588
2/17/17 10:00	13.583	13.595	13.604	13.601	13.666	13.604	13.597
2/17/17 12:00	13.578	13.591	13.592	13.600	13.668	13.596	13.592
2/17/17 14:00	13.564	13.579	13.578	13.578	13.662	13.576	13.571
2/17/17 16:00	13.569	13.568	13.575	13.574	13.652	13.576	13.568
2/17/17 18:00	13.572	13.581	13.583	13.591	13.638	13.588	13.584
2/17/17 20:00	13.585	13.611	13.609	13.609	13.651	13.607	13.603
2/17/17 22:00	13.611	13.624	13.632	13.631	13.683	13.632	13.625
2/18/17 0:00	13.622	13.638	13.639	13.647	13.694	13.644	13.640
2/18/17 2:00	13.626	13.652	13.650	13.650	13.710	13.647	13.643
2/18/17 4:00	13.629	13.641	13.650	13.649	13.723	13.649	13.642
2/18/17 6:00	13.641	13.655	13.656	13.663	13.713	13.660	13.657
2/18/17 8:00	13.650	13.675	13.673	13.673	13.727	13.671	13.667
2/18/17 10:00	13.666	13.680	13.688	13.687	13.745	13.688	13.681
2/18/17 12:00	13.656	13.670	13.670	13.678	13.752	13.675	13.672
2/18/17 14:00	13.630	13.650	13.648	13.648	13.740	13.645	13.641
2/18/17 16:00	13.630	13.632	13.641	13.639	13.719	13.641	13.633
2/18/17 18:00	13.625	13.638	13.640	13.646	13.704	13.644	13.640
2/18/17 20:00	13.622	13.647	13.645	13.646	13.708	13.644	13.640
2/18/17 22:00	13.636	13.647	13.656	13.655	13.720	13.656	13.649
2/19/17 0:00	13.642	13.657	13.659	13.666	13.718	13.662	13.659
2/19/17 2:00	13.654	13.679	13.677	13.677	13.730	13.675	13.670
2/19/17 4:00	13.659	13.671	13.679	13.676	13.751	13.679	13.672
2/19/17 6:00	13.659	13.673	13.675	13.682	13.741	13.680	13.675
2/19/17 8:00	13.671	13.696	13.694	13.694	13.747	13.692	13.687
2/19/17 10:00	13.665	13.676	13.685	13.683	13.767	13.685	13.678
2/19/17 12:00	13.661	13.674	13.675	13.682	13.745	13.678	13.675
2/19/17 14:00	13.629	13.646	13.644	13.646	13.746	13.642	13.638
2/19/17 16:00	13.621	13.626	13.634	13.631	13.717	13.634	13.626
2/19/17 18:00	13.626	13.635	13.637	13.643	13.697	13.642	13.637
2/19/17 20:00	13.628	13.653	13.650	13.652	13.708	13.649	13.644
2/19/17 22:00	13.634	13.645	13.654	13.652	13.722	13.653	13.647
2/20/17 0:00	13.606	13.622	13.622	13.629	13.717	13.625	13.621
2/20/17 2:00	13.596	13.623	13.623	13.622	13.690	13.619	13.616

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/20/17 4:00	13.606	13.617	13.625	13.624	13.697	13.626	13.619
2/20/17 6:00	13.605	13.619	13.621	13.629	13.688	13.625	13.622
2/20/17 8:00	13.626	13.651	13.649	13.650	13.689	13.648	13.643
2/20/17 10:00	13.638	13.653	13.661	13.661	13.723	13.661	13.653
2/20/17 12:00	13.656	13.668	13.669	13.677	13.721	13.674	13.671
2/20/17 14:00	13.661	13.681	13.679	13.679	13.741	13.676	13.673
2/20/17 16:00	13.697	13.701	13.710	13.709	13.752	13.709	13.702
2/20/17 18:00	13.722	13.733	13.734	13.741	13.769	13.739	13.735
2/20/17 20:00	13.737	13.761	13.760	13.761	13.805	13.758	13.754
2/20/17 22:00	13.742	13.756	13.764	13.762	13.832	13.763	13.757
2/21/17 0:00	13.743	13.758	13.760	13.767	13.828	13.764	13.761
2/21/17 2:00	13.740	13.765	13.763	13.762	13.829	13.761	13.756
2/21/17 4:00	13.750	13.764	13.772	13.771	13.838	13.771	13.765
2/21/17 6:00	13.751	13.766	13.768	13.774	13.834	13.771	13.768
2/21/17 8:00	13.758	13.781	13.779	13.780	13.835	13.777	13.774
2/21/17 10:00	13.758	13.776	13.784	13.782	13.854	13.783	13.776
2/21/17 12:00	13.739	13.752	13.754	13.761	13.844	13.757	13.754
2/21/17 14:00	13.706	13.726	13.723	13.723	13.826	13.721	13.716
2/21/17 16:00	13.689	13.690	13.699	13.697	13.796	13.698	13.691
2/21/17 18:00	13.678	13.685	13.687	13.695	13.758	13.691	13.687
2/21/17 20:00	13.665	13.692	13.690	13.690	13.758	13.687	13.683
2/21/17 22:00	13.659	13.674	13.681	13.680	13.761	13.681	13.675
2/22/17 0:00	13.640	13.655	13.658	13.665	13.745	13.661	13.657
2/22/17 2:00	13.629	13.655	13.654	13.655	13.727	13.651	13.648
2/22/17 4:00	13.607	13.621	13.629	13.628	13.724	13.628	13.622
2/22/17 6:00	13.610	13.628	13.630	13.637	13.692	13.631	13.629
2/22/17 8:00	13.627	13.653	13.651	13.651	13.697	13.648	13.645
2/22/17 10:00	13.639	13.652	13.661	13.659	13.725	13.659	13.653
2/22/17 12:00	13.639	13.648	13.649	13.657	13.722	13.653	13.649
2/22/17 14:00	13.621	13.635	13.633	13.633	13.717	13.630	13.627
2/22/17 16:00	13.617	13.620	13.629	13.628	13.706	13.628	13.622
2/22/17 18:00	13.614	13.624	13.626	13.633	13.690	13.630	13.627
2/22/17 20:00	13.611	13.640	13.637	13.637	13.697	13.634	13.630
2/22/17 22:00	13.618	13.632	13.642	13.639	13.708	13.641	13.634
2/23/17 0:00	13.612	13.629	13.632	13.638	13.701	13.635	13.632
2/23/17 2:00	13.609	13.635	13.634	13.634	13.701	13.630	13.627
2/23/17 4:00	13.603	13.617	13.628	13.625	13.704	13.626	13.620
2/23/17 6:00	13.593	13.610	13.612	13.619	13.690	13.615	13.613
2/23/17 8:00	13.580	13.610	13.609	13.610	13.680	13.605	13.602
2/23/17 10:00	13.574	13.588	13.597	13.595	13.682	13.595	13.589
2/23/17 12:00	13.551	13.567	13.569	13.575	13.658	13.572	13.569
2/23/17 14:00	13.522	13.550	13.547	13.549	13.637	13.545	13.541
2/23/17 16:00	13.530	13.543	13.553	13.550	13.621	13.551	13.545
2/23/17 18:00	13.544	13.550	13.557	13.560	13.614	13.558	13.556
2/23/17 20:00	13.591	13.614	13.614	13.613	13.628	13.611	13.607
2/23/17 22:00	13.604	13.616	13.628	13.626	13.687	13.626	13.620
2/24/17 0:00	13.621	13.632	13.638	13.643	13.687	13.640	13.636

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/24/17 2:00	13.629	13.651	13.652	13.651	13.707	13.648	13.644
2/24/17 4:00	13.641	13.651	13.663	13.661	13.722	13.661	13.654
2/24/17 6:00	13.657	13.668	13.673	13.678	13.726	13.675	13.672
2/24/17 8:00	13.684	13.708	13.708	13.707	13.740	13.704	13.700
2/24/17 10:00	13.716	13.725	13.737	13.734	13.778	13.727	13.728
2/24/17 12:00	13.732	13.745	13.751	13.755	13.801	13.750	13.749
2/24/17 14:00	13.739	13.765	13.764	13.763	13.819	13.761	13.756
2/24/17 16:00	13.764	13.773	13.786	13.783	13.834	13.785	13.777
2/24/17 18:00	13.789	13.802	13.806	13.812	13.847	13.809	13.805
2/24/17 20:00	13.816	13.839	13.839	13.838	13.874	13.835	13.831
2/24/17 22:00	13.826	13.834	13.847	13.844	13.912	13.844	13.838
2/25/17 0:00	13.830	13.842	13.846	13.852	13.906	13.848	13.845
2/25/17 2:00	13.833	13.855	13.855	13.855	13.913	13.851	13.847
2/25/17 4:00	13.819	13.829	13.840	13.837	13.927	13.838	13.831
2/25/17 6:00	13.816	13.828	13.832	13.838	13.899	13.834	13.831
2/25/17 8:00	13.823	13.844	13.843	13.843	13.901	13.839	13.836
2/25/17 10:00	13.808	13.821	13.832	13.830	13.914	13.830	13.823
2/25/17 12:00	13.776	13.791	13.796	13.801	13.895	13.797	13.793
2/25/17 14:00	13.732	13.760	13.758	13.758	13.865	13.755	13.751
2/25/17 16:00	13.711	13.728	13.736	13.734	13.829	13.734	13.727
2/25/17 18:00	13.706	13.722	13.724	13.729	13.799	13.726	13.723
2/25/17 20:00	13.707	13.731	13.731	13.731	13.793	13.727	13.723
2/25/17 22:00	13.704	13.715	13.725	13.722	13.804	13.723	13.717
2/26/17 0:00	13.720	13.737	13.739	13.745	13.785	13.740	13.738
2/26/17 2:00	13.700	13.724	13.723	13.722	13.806	13.719	13.716
2/26/17 4:00	13.701	13.716	13.724	13.722	13.795	13.722	13.716
2/26/17 6:00	13.707	13.719	13.723	13.728	13.784	13.724	13.721
2/26/17 8:00	13.724	13.746	13.746	13.746	13.792	13.742	13.739
2/26/17 10:00	13.728	13.744	13.753	13.749	13.818	13.751	13.744
2/26/17 12:00	13.718	13.736	13.740	13.745	13.816	13.740	13.738
2/26/17 14:00	13.696	13.724	13.722	13.722	13.808	13.719	13.714
2/26/17 16:00	13.700	13.711	13.720	13.717	13.792	13.718	13.713
2/26/17 18:00	13.716	13.732	13.733	13.740	13.783	13.736	13.732
2/26/17 20:00	13.728	13.752	13.751	13.750	13.802	13.748	13.744
2/26/17 22:00	13.733	13.746	13.755	13.752	13.825	13.752	13.746
2/27/17 0:00	13.723	13.736	13.740	13.744	13.816	13.740	13.738
2/27/17 2:00	13.719	13.743	13.741	13.741	13.806	13.737	13.734
2/27/17 4:00	13.706	13.718	13.727	13.724	13.813	13.724	13.718
2/27/17 6:00	13.708	13.719	13.723	13.728	13.787	13.725	13.721
2/27/17 8:00	13.706	13.729	13.729	13.729	13.793	13.724	13.721
2/27/17 10:00	13.689	13.704	13.712	13.710	13.800	13.709	13.704
2/27/17 12:00	13.648	13.667	13.669	13.674	13.772	13.670	13.667
2/27/17 14:00	13.608	13.633	13.632	13.631	13.737	13.628	13.624
2/27/17 16:00	13.591	13.602	13.611	13.608	13.702	13.609	13.602
2/27/17 18:00	13.584	13.597	13.600	13.607	13.674	13.601	13.599
2/27/17 20:00	13.576	13.600	13.598	13.598	13.668	13.595	13.592
2/27/17 22:00	13.561	13.575	13.585	13.581	13.674	13.583	13.576

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
2/28/17 0:00	13.556	13.572	13.573	13.580	13.647	13.576	13.572
2/28/17 2:00	13.560	13.583	13.582	13.583	13.641	13.579	13.575
2/28/17 4:00	13.558	13.573	13.581	13.579	13.655	13.579	13.572
2/28/17 6:00	13.572	13.586	13.589	13.594	13.643	13.590	13.588
2/28/17 8:00	13.607	13.631	13.630	13.629	13.660	13.626	13.623
2/28/17 10:00	13.616	13.629	13.639	13.635	13.702	13.636	13.630
2/28/17 12:00	13.597	13.615	13.618	13.623	13.698	13.619	13.617
2/28/17 14:00	13.582	13.608	13.606	13.606	13.687	13.603	13.600
2/28/17 16:00	13.592	13.606	13.614	13.611	13.678	13.613	13.606
2/28/17 18:00	13.620	13.634	13.636	13.642	13.677	13.639	13.635
2/28/17 20:00	13.658	13.682	13.680	13.679	13.705	13.677	13.673
2/28/17 22:00	13.682	13.693	13.702	13.699	13.752	13.701	13.694
3/1/17 0:00	13.700	13.717	13.719	13.724	13.765	13.722	13.718
3/1/17 2:00	13.723	13.746	13.746	13.745	13.787	13.742	13.738
3/1/17 4:00	13.736	13.748	13.757	13.753	13.819	13.756	13.749
3/1/17 6:00	13.764	13.778	13.778	13.785	13.818	13.781	13.779
3/1/17 8:00	13.790	13.813	13.812	13.812	13.851	13.808	13.805
3/1/17 10:00	13.827	13.840	13.848	13.845	13.885	13.846	13.840
3/1/17 12:00	13.844	13.859	13.862	13.867	13.908	13.865	13.862
3/1/17 14:00	13.836	13.862	13.862	13.860	13.933	13.858	13.854
3/1/17 16:00	13.844	13.854	13.862	13.860	13.932	13.863	13.855
3/1/17 18:00	13.850	13.864	13.865	13.872	13.927	13.869	13.866
3/1/17 20:00	13.857	13.882	13.881	13.881	13.936	13.878	13.873
3/1/17 22:00	13.871	13.885	13.893	13.890	13.952	13.891	13.884
3/2/17 0:00	13.876	13.891	13.892	13.899	13.956	13.896	13.892
3/2/17 2:00	13.882	13.906	13.905	13.904	13.962	13.902	13.897
3/2/17 4:00	13.884	13.895	13.905	13.901	13.975	13.902	13.896
3/2/17 6:00	13.897	13.911	13.913	13.919	13.967	13.916	13.913
3/2/17 8:00	13.922	13.946	13.944	13.942	13.981	13.940	13.937
3/2/17 10:00	13.945	13.960	13.969	13.966	14.017	13.967	13.961
3/2/17 12:00	13.952	13.969	13.970	13.977	14.030	13.974	13.971
3/2/17 14:00	13.943	13.968	13.965	13.966	14.042	13.963	13.958
3/2/17 16:00	13.941	13.953	13.961	13.959	14.038	13.959	13.953
3/2/17 18:00	13.940	13.954	13.955	13.963	14.021	13.959	13.956
3/2/17 20:00	13.949	13.975	13.973	13.974	14.027	13.970	13.966
3/2/17 22:00	13.959	13.972	13.980	13.979	14.044	13.979	13.972
3/3/17 0:00	13.966	13.982	13.982	13.990	14.044	13.986	13.983
3/3/17 2:00	13.965	13.991	13.990	13.990	14.052	13.986	13.982
3/3/17 4:00	13.946	13.961	13.969	13.967	14.059	13.967	13.960
3/3/17 6:00	13.935	13.950	13.952	13.958	14.031	13.955	13.952
3/3/17 8:00	13.922	13.947	13.945	13.945	14.020	13.942	13.938
3/3/17 10:00	13.898	13.914	13.923	13.920	14.020	13.921	13.914
3/3/17 12:00	13.856	13.873	13.874	13.881	13.984	13.877	13.874
3/3/17 14:00	13.819	13.843	13.841	13.842	13.942	13.837	13.833
3/3/17 16:00	13.796	13.805	13.813	13.811	13.914	13.812	13.806
3/3/17 18:00	13.788	13.801	13.803	13.810	13.873	13.807	13.804
3/3/17 20:00	13.783	13.811	13.809	13.810	13.874	13.806	13.802

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/3/17 22:00	13.789	13.802	13.811	13.808	13.880	13.809	13.804
3/4/17 0:00	13.789	13.805	13.807	13.814	13.870	13.810	13.807
3/4/17 2:00	13.790	13.817	13.815	13.815	13.876	13.812	13.809
3/4/17 4:00	13.779	13.793	13.802	13.799	13.886	13.800	13.793
3/4/17 6:00	13.776	13.792	13.793	13.800	13.865	13.796	13.793
3/4/17 8:00	13.777	13.802	13.800	13.801	13.862	13.798	13.794
3/4/17 10:00	13.762	13.778	13.786	13.783	13.875	13.784	13.777
3/4/17 12:00	13.742	13.756	13.758	13.764	13.847	13.761	13.758
3/4/17 14:00	13.698	13.720	13.717	13.718	13.825	13.715	13.710
3/4/17 16:00	13.687	13.689	13.699	13.696	13.790	13.697	13.690
3/4/17 18:00	13.679	13.687	13.689	13.696	13.759	13.693	13.689
3/4/17 20:00	13.676	13.703	13.701	13.701	13.760	13.698	13.694
3/4/17 22:00	13.682	13.695	13.703	13.700	13.774	13.702	13.696
3/5/17 0:00	13.672	13.688	13.689	13.696	13.763	13.693	13.689
3/5/17 2:00	13.669	13.694	13.693	13.693	13.760	13.690	13.686
3/5/17 4:00	13.648	13.661	13.669	13.667	13.764	13.668	13.662
3/5/17 6:00	13.650	13.666	13.668	13.675	13.732	13.670	13.668
3/5/17 8:00	13.655	13.680	13.679	13.679	13.737	13.676	13.672
3/5/17 10:00	13.650	13.664	13.674	13.671	13.749	13.672	13.666
3/5/17 12:00	13.635	13.648	13.649	13.656	13.736	13.653	13.650
3/5/17 14:00	13.593	13.612	13.611	13.612	13.716	13.609	13.605
3/5/17 16:00	13.569	13.576	13.583	13.581	13.684	13.583	13.576
3/5/17 18:00	13.554	13.564	13.567	13.573	13.644	13.570	13.567
3/5/17 20:00	13.545	13.572	13.570	13.570	13.638	13.567	13.563
3/5/17 22:00	13.535	13.549	13.558	13.557	13.642	13.556	13.549
3/6/17 0:00	13.517	13.535	13.537	13.543	13.617	13.540	13.537
3/6/17 2:00	13.511	13.537	13.536	13.535	13.606	13.533	13.529
3/6/17 4:00	13.484	13.499	13.507	13.506	13.607	13.506	13.499
3/6/17 6:00	13.469	13.485	13.488	13.494	13.570	13.490	13.487
3/6/17 8:00	13.465	13.491	13.490	13.489	13.556	13.487	13.483
3/6/17 10:00	13.464	13.475	13.484	13.481	13.559	13.482	13.476
3/6/17 12:00	13.448	13.458	13.460	13.467	13.546	13.464	13.461
3/6/17 14:00	13.450	13.470	13.468	13.468	13.529	13.466	13.463
3/6/17 16:00	13.513	13.523	13.531	13.530	13.543	13.529	13.524
3/6/17 18:00	13.565	13.577	13.579	13.588	13.592	13.585	13.582
3/6/17 20:00	13.637	13.661	13.659	13.660	13.646	13.658	13.654
3/6/17 22:00	13.690	13.703	13.711	13.711	13.733	13.712	13.705
3/7/17 0:00	13.711	13.724	13.725	13.733	13.771	13.730	13.727
3/7/17 2:00	13.730	13.754	13.751	13.753	13.796	13.749	13.746
3/7/17 4:00	13.733	13.744	13.752	13.751	13.824	13.752	13.746
3/7/17 6:00	13.759	13.772	13.773	13.782	13.812	13.778	13.776
3/7/17 8:00	13.776	13.801	13.799	13.801	13.844	13.797	13.793
3/7/17 10:00	13.780	13.796	13.803	13.800	13.870	13.803	13.795
3/7/17 12:00	13.771	13.792	13.793	13.801	13.867	13.798	13.795
3/7/17 14:00	13.769	13.791	13.788	13.790	13.863	13.788	13.784
3/7/17 16:00	13.769	13.781	13.788	13.789	13.860	13.790	13.782
3/7/17 18:00	13.786	13.799	13.799	13.807	13.850	13.806	13.802

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/7/17 20:00	13.804	13.829	13.826	13.827	13.868	13.825	13.820
3/7/17 22:00	13.820	13.831	13.839	13.838	13.901	13.839	13.832
3/8/17 0:00	13.830	13.844	13.844	13.853	13.900	13.850	13.846
3/8/17 2:00	13.839	13.862	13.861	13.861	13.913	13.858	13.854
3/8/17 4:00	13.827	13.838	13.847	13.845	13.933	13.847	13.839
3/8/17 6:00	13.822	13.836	13.836	13.845	13.907	13.841	13.838
3/8/17 8:00	13.828	13.852	13.849	13.850	13.907	13.847	13.843
3/8/17 10:00	13.821	13.835	13.843	13.841	13.921	13.843	13.836
3/8/17 12:00	13.799	13.812	13.812	13.821	13.907	13.818	13.813
3/8/17 14:00	13.780	13.797	13.793	13.792	13.883	13.785	13.786
3/8/17 16:00	13.778	13.778	13.786	13.783	13.865	13.779	13.778
3/8/17 18:00	13.765	13.770	13.770	13.779	13.849	13.768	13.774
3/8/17 20:00	13.764	13.790	13.785	13.785	13.841	13.779	13.780
3/8/17 22:00	13.771	13.783	13.790	13.787	13.861	13.785	13.783
3/9/17 0:00	13.771	13.799	13.805	13.806	13.853	13.793	13.798
3/9/17 2:00	13.762	13.790	13.796	13.796	13.869	13.784	13.789
3/9/17 4:00	13.748	13.778	13.783	13.784	13.864	13.771	13.776
3/9/17 6:00	13.753	13.780	13.787	13.787	13.848	13.774	13.779
3/9/17 8:00	13.749	13.779	13.786	13.786	13.854	13.773	13.778
3/9/17 10:00	13.765	13.791	13.798	13.797	13.851	13.786	13.791
3/9/17 12:00	13.772	13.800	13.805	13.806	13.868	13.793	13.798
3/9/17 14:00	13.766	13.793	13.799	13.800	13.871	13.786	13.791
3/9/17 16:00	13.775	13.797	13.804	13.804	13.864	13.791	13.796
3/9/17 18:00	13.810	13.831	13.836	13.836	13.871	13.823	13.829
3/9/17 20:00	13.867	13.896	13.902	13.902	13.902	13.889	13.895
3/9/17 22:00	13.931	13.960	13.965	13.965	13.970	13.952	13.959
3/10/17 0:00	13.958	13.987	13.994	13.994	14.032	13.981	13.986
3/10/17 2:00	13.977	14.007	14.013	14.013	14.057	14.000	14.005
3/10/17 4:00	13.986	14.015	14.022	14.021	14.080	14.008	14.013
3/10/17 6:00	13.988	14.018	14.024	14.023	14.085	14.010	14.016
3/10/17 8:00	14.005	14.033	14.039	14.039	14.090	14.027	14.032
3/10/17 10:00	14.006	14.037	14.045	14.045	14.106	14.031	14.035
3/10/17 12:00	13.975	14.006	14.013	14.013	14.108	14.000	14.005
3/10/17 14:00	13.946	13.953	13.963	13.965	14.080	13.968	13.959
3/10/17 16:00	13.902	13.912	13.911	13.923	14.000	13.922	13.916
3/10/17 18:00	13.883	13.908	13.902	13.903	13.994	13.906	13.898
3/10/17 20:00	13.874	13.879	13.890	13.889	13.969	13.895	13.884
3/10/17 22:00	13.890	13.899	13.899	13.908	13.988	13.910	13.904
3/11/17 0:00	13.893	13.916	13.913	13.911	14.002	13.913	13.906
3/11/17 2:00	13.882	13.890	13.900	13.896	13.973	13.904	13.894
3/11/17 4:00	13.886	13.896	13.896	13.907	13.977	13.907	13.901
3/11/17 6:00	13.891	13.914	13.910	13.910	13.994	13.911	13.905
3/11/17 8:00	13.905	13.912	13.923	13.920	13.991	13.926	13.916
3/11/17 10:00	13.938	13.948	13.948	13.957	14.030	13.957	13.952
3/11/17 12:00	13.957	13.981	13.977	13.977	14.058	13.978	13.972
3/11/17 14:00	13.960	13.966	13.977	13.974	14.049	13.982	13.971
3/11/17 16:00	13.940	13.950	13.951	13.961	14.031	13.962	13.956

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/11/17 18:00	13.942	13.966	13.962	13.961	14.047	13.964	13.957
3/11/17 20:00	13.946	13.950	13.963	13.961	14.032	13.967	13.957
3/11/17 22:00	13.952	13.961	13.962	13.972	14.041	13.973	13.967
3/12/17 0:00	13.941	13.964	13.961	13.961	14.042	13.962	13.956
3/12/17 2:00	13.925	13.930	13.942	13.940	14.009	13.946	13.936
3/12/17 4:00	13.902	13.913	13.913	13.923	13.991	13.923	13.917
3/12/17 6:00	13.874	13.897	13.893	13.893	13.972	13.894	13.888
3/12/17 8:00	13.859	13.864	13.875	13.874	13.943	13.879	13.870
3/12/17 10:00	13.816	13.827	13.827	13.838	13.905	13.838	13.832
3/12/17 12:00	13.785	13.810	13.805	13.806	13.889	13.807	13.800
3/12/17 14:00	13.742	13.750	13.760	13.760	13.828	13.764	13.755
3/12/17 16:00	13.713	13.726	13.724	13.736	13.801	13.735	13.730
3/12/17 18:00	13.709	13.732	13.727	13.728	13.808	13.729	13.723
3/12/17 20:00	13.749	13.755	13.767	13.763	13.833	13.771	13.761
3/12/17 22:00	13.776	13.786	13.787	13.796	13.865	13.796	13.791
3/13/17 0:00	13.810	13.833	13.829	13.829	13.907	13.830	13.824
3/13/17 2:00	13.840	13.844	13.857	13.852	13.923	13.859	13.851
3/13/17 4:00	13.876	13.885	13.885	13.895	13.961	13.894	13.890
3/13/17 6:00	13.900	13.922	13.919	13.918	13.999	13.919	13.914
3/13/17 8:00	13.911	13.914	13.927	13.924	13.991	13.929	13.920
3/13/17 10:00	13.923	13.931	13.934	13.942	14.007	13.942	13.938
3/13/17 12:00	13.916	13.939	13.936	13.937	14.015	13.937	13.931
3/13/17 14:00	13.895	13.903	13.914	13.913	13.979	13.917	13.909
3/13/17 16:00	13.877	13.887	13.888	13.898	13.964	13.897	13.892
3/13/17 18:00	13.873	13.897	13.894	13.894	13.971	13.894	13.889
3/13/17 20:00	13.874	13.881	13.892	13.889	13.959	13.894	13.885
3/13/17 22:00	13.882	13.891	13.892	13.900	13.969	13.901	13.896
3/14/17 0:00	13.875	13.899	13.897	13.897	13.971	13.896	13.891
3/14/17 2:00	13.874	13.882	13.893	13.890	13.958	13.894	13.886
3/14/17 4:00	13.865	13.875	13.876	13.886	13.949	13.884	13.880
3/14/17 6:00	13.870	13.892	13.889	13.887	13.967	13.889	13.883
3/14/17 8:00	13.873	13.881	13.892	13.889	13.955	13.893	13.885
3/14/17 10:00	13.890	13.900	13.902	13.909	13.978	13.910	13.906
3/14/17 12:00	13.888	13.914	13.910	13.912	13.986	13.911	13.906
3/14/17 14:00	13.893	13.901	13.913	13.909	13.979	13.915	13.907
3/14/17 16:00	13.882	13.892	13.895	13.904	13.970	13.903	13.899
3/14/17 18:00	13.891	13.916	13.912	13.913	13.988	13.912	13.907
3/14/17 20:00	13.901	13.908	13.919	13.917	13.985	13.921	13.913
3/14/17 22:00	13.915	13.924	13.926	13.935	14.001	13.934	13.930
3/15/17 0:00	13.918	13.942	13.938	13.939	14.016	13.938	13.933
3/15/17 2:00	13.917	13.925	13.937	13.937	14.001	13.938	13.931
3/15/17 4:00	13.909	13.920	13.921	13.930	13.993	13.929	13.925
3/15/17 6:00	13.903	13.926	13.925	13.923	14.002	13.923	13.919
3/15/17 8:00	13.893	13.899	13.911	13.909	13.974	13.911	13.904
3/15/17 10:00	13.879	13.889	13.893	13.901	13.970	13.899	13.895
3/15/17 12:00	13.852	13.877	13.873	13.874	13.949	13.873	13.868
3/15/17 14:00	13.834	13.843	13.853	13.851	13.918	13.855	13.847

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/15/17 16:00	13.801	13.811	13.813	13.822	13.885	13.821	13.817
3/15/17 18:00	13.778	13.801	13.798	13.798	13.876	13.797	13.792
3/15/17 20:00	13.781	13.788	13.799	13.798	13.862	13.801	13.793
3/15/17 22:00	13.779	13.791	13.792	13.801	13.864	13.800	13.796
3/16/17 0:00	13.782	13.807	13.804	13.804	13.881	13.803	13.799
3/16/17 2:00	13.766	13.773	13.786	13.783	13.849	13.786	13.780
3/16/17 4:00	13.749	13.758	13.761	13.769	13.836	13.768	13.764
3/16/17 6:00	13.733	13.756	13.754	13.755	13.830	13.753	13.749
3/16/17 8:00	13.724	13.731	13.743	13.741	13.808	13.744	13.737
3/16/17 10:00	13.718	13.729	13.731	13.741	13.803	13.738	13.735
3/16/17 12:00	13.708	13.729	13.726	13.727	13.804	13.725	13.721
3/16/17 14:00	13.686	13.685	13.697	13.695	13.760	13.699	13.692
3/16/17 16:00	13.660	13.659	13.661	13.671	13.732	13.669	13.666
3/16/17 18:00	13.648	13.665	13.660	13.661	13.737	13.660	13.656
3/16/17 20:00	13.648	13.651	13.663	13.662	13.724	13.665	13.658
3/16/17 22:00	13.651	13.661	13.662	13.672	13.736	13.669	13.667
3/17/17 0:00	13.676	13.700	13.697	13.698	13.772	13.696	13.693
3/17/17 2:00	13.703	13.709	13.721	13.720	13.785	13.723	13.716
3/17/17 4:00	13.738	13.747	13.750	13.759	13.822	13.757	13.755
3/17/17 6:00	13.754	13.779	13.776	13.776	13.848	13.775	13.771
3/17/17 8:00	13.800	13.807	13.820	13.816	13.882	13.821	13.814
3/17/17 10:00	13.826	13.836	13.837	13.847	13.908	13.845	13.842
3/17/17 12:00	13.845	13.865	13.862	13.863	13.938	13.862	13.858
3/17/17 14:00	13.843	13.845	13.857	13.856	13.918	13.859	13.852
3/17/17 16:00	13.840	13.839	13.841	13.851	13.915	13.848	13.846
3/17/17 18:00	13.845	13.858	13.855	13.856	13.929	13.854	13.851
3/17/17 20:00	13.852	13.858	13.870	13.868	13.934	13.871	13.865
3/17/17 22:00	13.874	13.886	13.887	13.896	13.959	13.895	13.892
3/18/17 0:00	13.886	13.912	13.909	13.910	13.982	13.908	13.905
3/18/17 2:00	13.904	13.912	13.924	13.923	13.986	13.924	13.919
3/18/17 4:00	13.903	13.915	13.918	13.926	13.987	13.923	13.922
3/18/17 6:00	13.908	13.934	13.931	13.932	14.007	13.930	13.927
3/18/17 8:00	13.916	13.926	13.937	13.937	13.998	13.937	13.931
3/18/17 10:00	13.921	13.933	13.937	13.946	14.009	13.942	13.941
3/18/17 12:00	13.914	13.939	13.937	13.938	14.010	13.935	13.932
3/18/17 14:00	13.883	13.888	13.900	13.900	13.963	13.901	13.895
3/18/17 16:00	13.851	13.853	13.856	13.865	13.926	13.861	13.859
3/18/17 18:00	13.825	13.839	13.836	13.840	13.908	13.835	13.832
3/18/17 20:00	13.810	13.817	13.829	13.827	13.891	13.830	13.824
3/18/17 22:00	13.810	13.821	13.825	13.834	13.894	13.831	13.829
3/19/17 0:00	13.797	13.823	13.821	13.822	13.895	13.819	13.816
3/19/17 2:00	13.782	13.792	13.803	13.803	13.863	13.804	13.800
3/19/17 4:00	13.757	13.769	13.773	13.782	13.844	13.778	13.776
3/19/17 6:00	13.737	13.763	13.761	13.762	13.834	13.759	13.756
3/19/17 8:00	13.735	13.743	13.756	13.754	13.814	13.756	13.751
3/19/17 10:00	13.727	13.738	13.743	13.751	13.811	13.747	13.746
3/19/17 12:00	13.728	13.747	13.746	13.747	13.817	13.743	13.741

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/19/17 14:00	13.721	13.718	13.729	13.729	13.790	13.730	13.725
3/19/17 16:00	13.698	13.693	13.696	13.705	13.765	13.702	13.700
3/19/17 18:00	13.692	13.695	13.692	13.694	13.767	13.690	13.688
3/19/17 20:00	13.683	13.687	13.699	13.698	13.758	13.699	13.695
3/19/17 22:00	13.700	13.710	13.714	13.722	13.786	13.719	13.718
3/20/17 0:00	13.704	13.730	13.728	13.729	13.800	13.726	13.724
3/20/17 2:00	13.704	13.713	13.726	13.725	13.785	13.726	13.721
3/20/17 4:00	13.714	13.725	13.729	13.736	13.799	13.734	13.733
3/20/17 6:00	13.725	13.751	13.750	13.749	13.822	13.747	13.745
3/20/17 8:00	13.746	13.755	13.769	13.767	13.831	13.767	13.763
3/20/17 10:00	13.775	13.787	13.792	13.802	13.861	13.796	13.796
3/20/17 12:00	13.783	13.805	13.804	13.806	13.874	13.801	13.800
3/20/17 14:00	13.776	13.778	13.792	13.791	13.852	13.791	13.787
3/20/17 16:00	13.768	13.773	13.776	13.785	13.845	13.781	13.781
3/20/17 18:00	13.771	13.787	13.785	13.787	13.858	13.783	13.782
3/20/17 20:00	13.778	13.786	13.799	13.798	13.858	13.797	13.794
3/20/17 22:00	13.800	13.812	13.816	13.825	13.886	13.820	13.820
3/21/17 0:00	13.817	13.844	13.842	13.844	13.913	13.839	13.837
3/21/17 2:00	13.816	13.827	13.839	13.840	13.900	13.837	13.834
3/21/17 4:00	13.795	13.809	13.813	13.821	13.882	13.816	13.816
3/21/17 6:00	13.835	13.861	13.860	13.860	13.930	13.856	13.856
3/21/17 8:00	13.866	13.875	13.888	13.886	13.949	13.886	13.883
3/21/17 10:00	13.881	13.896	13.901	13.909	13.967	13.903	13.903
3/21/17 12:00	13.887	13.912	13.911	13.914	13.983	13.908	13.907
3/21/17 14:00	13.881	13.891	13.904	13.903	13.963	13.902	13.899
3/21/17 16:00	13.864	13.875	13.879	13.888	13.949	13.882	13.883
3/21/17 18:00	13.860	13.884	13.884	13.885	13.955	13.880	13.879
3/21/17 20:00	13.875	13.885	13.899	13.898	13.958	13.896	13.895
3/21/17 22:00	13.892	13.907	13.912	13.920	13.981	13.914	13.915
3/22/17 0:00	13.911	13.937	13.937	13.937	14.008	13.932	13.932
3/22/17 2:00	13.904	13.917	13.929	13.929	13.990	13.926	13.924
3/22/17 4:00	13.887	13.902	13.906	13.916	13.975	13.909	13.909
3/22/17 6:00	13.896	13.923	13.922	13.923	13.994	13.917	13.918
3/22/17 8:00	13.891	13.902	13.915	13.914	13.975	13.912	13.911
3/22/17 10:00	13.884	13.898	13.905	13.912	13.974	13.906	13.906
3/22/17 12:00	13.865	13.892	13.891	13.892	13.962	13.888	13.887
3/22/17 14:00	13.833	13.843	13.856	13.855	13.913	13.853	13.851
3/22/17 16:00	13.804	13.816	13.822	13.829	13.890	13.823	13.823
3/22/17 18:00	13.780	13.805	13.805	13.806	13.875	13.801	13.800
3/22/17 20:00	13.771	13.784	13.796	13.795	13.856	13.793	13.791
3/22/17 22:00	13.779	13.792	13.799	13.805	13.865	13.800	13.800
3/23/17 0:00	13.762	13.787	13.788	13.788	13.859	13.782	13.782
3/23/17 2:00	13.732	13.744	13.757	13.755	13.816	13.753	13.752
3/23/17 4:00	13.705	13.719	13.725	13.733	13.795	13.726	13.727
3/23/17 6:00	13.675	13.701	13.701	13.702	13.772	13.697	13.696
3/23/17 8:00	13.658	13.671	13.684	13.684	13.742	13.681	13.679
3/23/17 10:00	13.644	13.658	13.664	13.671	13.733	13.665	13.666

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/23/17 12:00	13.621	13.646	13.646	13.647	13.715	13.641	13.642
3/23/17 14:00	13.590	13.598	13.611	13.610	13.671	13.607	13.606
3/23/17 16:00	13.566	13.568	13.572	13.581	13.640	13.574	13.574
3/23/17 18:00	13.539	13.551	13.552	13.552	13.625	13.547	13.547
3/23/17 20:00	13.543	13.546	13.560	13.559	13.619	13.557	13.555
3/23/17 22:00	13.588	13.599	13.605	13.613	13.671	13.607	13.608
3/24/17 0:00	13.597	13.621	13.619	13.621	13.692	13.617	13.616
3/24/17 2:00	13.607	13.617	13.630	13.630	13.687	13.627	13.625
3/24/17 4:00	13.586	13.598	13.602	13.612	13.672	13.606	13.606
3/24/17 6:00	13.587	13.613	13.612	13.614	13.683	13.609	13.609
3/24/17 8:00	13.611	13.619	13.634	13.633	13.696	13.631	13.630
3/24/17 10:00	13.644	13.657	13.663	13.673	13.731	13.665	13.667
3/24/17 12:00	13.671	13.697	13.696	13.698	13.769	13.692	13.692
3/24/17 14:00	13.694	13.704	13.718	13.718	13.776	13.715	13.714
3/24/17 16:00	13.701	13.715	13.721	13.729	13.785	13.723	13.724
3/24/17 18:00	13.729	13.753	13.753	13.754	13.825	13.749	13.749
3/24/17 20:00	13.743	13.752	13.766	13.766	13.824	13.763	13.761
3/24/17 22:00	13.752	13.764	13.769	13.777	13.838	13.771	13.772
3/25/17 0:00	13.746	13.773	13.772	13.774	13.843	13.768	13.768
3/25/17 2:00	13.751	13.761	13.774	13.774	13.835	13.772	13.770
3/25/17 4:00	13.746	13.760	13.766	13.774	13.832	13.767	13.768
3/25/17 6:00	13.747	13.772	13.772	13.773	13.845	13.767	13.768
3/25/17 8:00	13.751	13.762	13.776	13.775	13.835	13.772	13.771
3/25/17 10:00	13.758	13.771	13.776	13.784	13.843	13.777	13.779
3/25/17 12:00	13.753	13.780	13.779	13.781	13.852	13.775	13.774
3/25/17 14:00	13.744	13.755	13.768	13.769	13.826	13.765	13.763
3/25/17 16:00	13.719	13.733	13.738	13.747	13.803	13.740	13.740
3/25/17 18:00	13.708	13.735	13.735	13.736	13.806	13.730	13.730
3/25/17 20:00	13.715	13.726	13.741	13.738	13.797	13.736	13.735
3/25/17 22:00	13.718	13.732	13.738	13.745	13.806	13.739	13.739
3/26/17 0:00	13.700	13.726	13.727	13.727	13.796	13.722	13.721
3/26/17 2:00	13.706	13.716	13.730	13.730	13.787	13.727	13.725
3/26/17 4:00	13.698	13.713	13.718	13.726	13.785	13.719	13.720
3/26/17 6:00	13.688	13.713	13.713	13.714	13.782	13.709	13.708
3/26/17 8:00	13.699	13.709	13.723	13.722	13.783	13.720	13.718
3/26/17 10:00	13.701	13.714	13.720	13.728	13.787	13.722	13.722
3/26/17 12:00	13.708	13.735	13.734	13.735	13.807	13.730	13.730
3/26/17 14:00	13.698	13.710	13.722	13.723	13.781	13.720	13.717
3/26/17 16:00	13.680	13.691	13.697	13.706	13.762	13.699	13.700
3/26/17 18:00	13.684	13.708	13.708	13.709	13.780	13.704	13.704
3/26/17 20:00	13.713	13.723	13.736	13.737	13.794	13.734	13.732
3/26/17 22:00	13.720	13.731	13.736	13.745	13.806	13.739	13.740
3/27/17 0:00	13.704	13.729	13.728	13.730	13.799	13.725	13.724
3/27/17 2:00	13.716	13.725	13.737	13.738	13.795	13.737	13.734
3/27/17 4:00	13.707	13.719	13.723	13.733	13.792	13.728	13.728
3/27/17 6:00	13.720	13.746	13.744	13.746	13.814	13.741	13.740
3/27/17 8:00	13.724	13.733	13.746	13.747	13.806	13.745	13.742

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/27/17 10:00	13.738	13.748	13.753	13.763	13.820	13.757	13.756
3/27/17 12:00	13.739	13.763	13.761	13.763	13.835	13.759	13.758
3/27/17 14:00	13.731	13.735	13.748	13.748	13.807	13.747	13.744
3/27/17 16:00	13.709	13.713	13.718	13.727	13.785	13.723	13.722
3/27/17 18:00	13.707	13.725	13.723	13.724	13.796	13.721	13.719
3/27/17 20:00	13.711	13.719	13.731	13.731	13.789	13.732	13.728
3/27/17 22:00	13.731	13.741	13.746	13.755	13.815	13.750	13.750
3/28/17 0:00	13.741	13.766	13.765	13.766	13.836	13.762	13.760
3/28/17 2:00	13.738	13.746	13.759	13.759	13.816	13.758	13.755
3/28/17 4:00	13.733	13.742	13.747	13.755	13.815	13.752	13.751
3/28/17 6:00	13.744	13.770	13.768	13.771	13.838	13.766	13.764
3/28/17 8:00	13.757	13.765	13.779	13.779	13.839	13.778	13.774
3/28/17 10:00	13.762	13.774	13.779	13.788	13.846	13.783	13.783
3/28/17 12:00	13.739	13.765	13.763	13.766	13.834	13.762	13.760
3/28/17 14:00	13.734	13.742	13.756	13.756	13.815	13.755	13.751
3/28/17 16:00	13.735	13.747	13.751	13.760	13.817	13.755	13.754
3/28/17 18:00	13.747	13.771	13.769	13.771	13.843	13.768	13.766
3/28/17 20:00	13.752	13.737	13.749	13.754	13.805	13.771	13.752
3/28/17 22:00	13.753	13.737	13.729	13.753	13.809	13.770	13.751
3/29/17 0:00	13.751	13.766	13.755	13.759	13.833	13.772	13.755
3/29/17 2:00	13.738	13.724	13.733	13.733	13.793	13.756	13.733
3/29/17 4:00	13.719	13.708	13.699	13.719	13.779	13.736	13.717
3/29/17 6:00	13.711	13.723	13.707	13.711	13.788	13.732	13.707
3/29/17 8:00	13.712	13.686	13.695	13.693	13.758	13.730	13.692
3/29/17 10:00	13.705	13.686	13.674	13.698	13.756	13.722	13.695
3/29/17 12:00	13.690	13.695	13.677	13.679	13.759	13.708	13.676
3/29/17 14:00	13.676	13.609	13.623	13.614	13.679	13.692	13.616
3/29/17 16:00	13.659	13.574	13.558	13.586	13.641	13.672	13.587
3/29/17 18:00	13.659	13.643	13.621	13.615	13.709	13.675	13.613
3/29/17 20:00	13.665	13.597	13.609	13.593	13.665	13.678	13.595
3/29/17 22:00	13.671	13.611	13.592	13.614	13.677	13.684	13.614
3/30/17 0:00	13.655	13.650	13.628	13.623	13.716	13.672	13.620
3/30/17 2:00	13.647	13.600	13.608	13.595	13.668	13.663	13.596
3/30/17 4:00	13.639	13.604	13.587	13.605	13.674	13.654	13.604
3/30/17 6:00	13.632	13.636	13.618	13.612	13.702	13.650	13.609
3/30/17 8:00	13.647	13.612	13.619	13.606	13.684	13.662	13.608
3/30/17 10:00	13.652	13.625	13.610	13.626	13.694	13.666	13.626
3/30/17 12:00	13.649	13.655	13.638	13.634	13.720	13.667	13.630
3/30/17 14:00	13.640	13.611	13.619	13.605	13.680	13.657	13.607
3/30/17 16:00	13.628	13.606	13.591	13.608	13.675	13.643	13.605
3/30/17 18:00	13.625	13.634	13.618	13.614	13.699	13.643	13.611
3/30/17 20:00	13.641	13.616	13.625	13.612	13.685	13.659	13.613
3/30/17 22:00	13.668	13.649	13.638	13.653	13.718	13.683	13.651
3/31/17 0:00	13.678	13.689	13.675	13.670	13.757	13.697	13.667
3/31/17 2:00	13.678	13.658	13.666	13.654	13.725	13.696	13.655
3/31/17 4:00	13.684	13.670	13.659	13.673	13.736	13.701	13.671
3/31/17 6:00	13.697	13.709	13.695	13.690	13.774	13.715	13.687

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
3/31/17 8:00	13.715	13.694	13.703	13.691	13.762	13.732	13.692
3/31/17 10:00	13.745	13.732	13.723	13.736	13.803	13.763	13.734
3/31/17 12:00	13.736	13.749	13.736	13.731	13.816	13.755	13.728
3/31/17 14:00	13.739	13.718	13.728	13.717	13.789	13.756	13.717
3/31/17 16:00	13.743	13.729	13.720	13.733	13.800	13.759	13.731
3/31/17 18:00	13.742	13.756	13.743	13.739	13.820	13.762	13.735
3/31/17 20:00	13.752	13.734	13.745	13.733	13.804	13.771	13.733
3/31/17 22:00	13.783	13.770	13.762	13.772	13.839	13.799	13.772
4/1/17 0:00	13.794	13.809	13.796	13.792	13.876	13.814	13.788
4/1/17 2:00	13.795	13.780	13.788	13.778	13.848	13.814	13.777
4/1/17 4:00	13.810	13.800	13.791	13.803	13.867	13.827	13.801
4/1/17 6:00	13.795	13.808	13.793	13.790	13.875	13.814	13.787
4/1/17 8:00	13.833	13.795	13.800	13.790	13.863	13.849	13.792
4/1/17 10:00	13.819	13.726	13.701	13.727	13.793	13.828	13.728
4/1/17 12:00	13.830	13.812	13.785	13.775	13.874	13.844	13.773
4/1/17 14:00	13.806	13.717	13.725	13.706	13.786	13.818	13.708
4/1/17 16:00	13.786	13.536	13.523	13.553	13.604	13.776	13.557
4/1/17 18:00	13.800	13.722	13.692	13.671	13.780	13.804	13.671
4/1/17 20:00	13.795	13.652	13.665	13.635	13.719	13.788	13.640
4/1/17 22:00	13.800	13.676	13.642	13.671	13.741	13.793	13.673
4/2/17 0:00	13.790	13.758	13.724	13.710	13.821	13.797	13.707
4/2/17 2:00	13.785	13.689	13.693	13.666	13.755	13.786	13.671
4/2/17 4:00	13.754	13.674	13.640	13.665	13.740	13.754	13.665
4/2/17 6:00	13.736	13.719	13.688	13.675	13.783	13.746	13.672
4/2/17 8:00	13.741	13.666	13.669	13.646	13.734	13.746	13.650
4/2/17 10:00	13.733	13.673	13.642	13.664	13.740	13.737	13.664
4/2/17 12:00	13.712	13.703	13.674	13.662	13.766	13.725	13.660
4/2/17 14:00	13.673	13.609	13.612	13.590	13.673	13.680	13.594
4/2/17 16:00	13.644	13.590	13.567	13.585	13.658	13.650	13.586
4/2/17 18:00	13.625	13.618	13.594	13.584	13.681	13.637	13.582
4/2/17 20:00	13.616	13.567	13.575	13.558	13.636	13.630	13.561
4/2/17 22:00	13.625	13.589	13.569	13.588	13.654	13.638	13.587
4/3/17 0:00	13.605	13.606	13.585	13.579	13.674	13.621	13.575
4/3/17 2:00	13.591	13.551	13.557	13.542	13.618	13.606	13.545
4/3/17 4:00	13.578	13.546	13.527	13.545	13.611	13.590	13.545
4/3/17 6:00	13.568	13.571	13.551	13.543	13.636	13.584	13.541
4/3/17 8:00	13.576	13.536	13.544	13.529	13.603	13.590	13.532
4/3/17 10:00	13.579	13.547	13.531	13.548	13.617	13.592	13.548
4/3/17 12:00	13.569	13.553	13.524	13.540	13.617	13.581	13.538
4/3/17 14:00	13.575	13.522	13.540	13.526	13.590	13.585	13.529
4/3/17 16:00	13.569	13.540	13.541	13.541	13.611	13.580	13.539
4/3/17 18:00	13.597	13.581	13.551	13.571	13.645	13.607	13.568
4/3/17 20:00	13.619	13.578	13.590	13.580	13.646	13.633	13.583
4/3/17 22:00	13.654	13.632	13.633	13.633	13.702	13.669	13.631
4/4/17 0:00	13.667	13.659	13.629	13.646	13.720	13.680	13.646
4/4/17 2:00	13.660	13.622	13.637	13.625	13.690	13.675	13.628
4/4/17 4:00	13.669	13.648	13.650	13.650	13.717	13.683	13.647

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/4/17 6:00	13.679	13.672	13.644	13.661	13.737	13.693	13.660
4/4/17 8:00	13.679	13.644	13.658	13.647	13.713	13.696	13.650
4/4/17 10:00	13.694	13.678	13.678	13.678	13.749	13.711	13.677
4/4/17 12:00	13.696	13.689	13.660	13.678	13.753	13.710	13.676
4/4/17 14:00	13.689	13.652	13.668	13.657	13.720	13.705	13.660
4/4/17 16:00	13.667	13.649	13.651	13.650	13.720	13.682	13.649
4/4/17 18:00	13.668	13.661	13.633	13.652	13.726	13.681	13.650
4/4/17 20:00	13.682	13.645	13.663	13.653	13.716	13.698	13.654
4/4/17 22:00	13.706	13.690	13.691	13.691	13.759	13.722	13.689
4/5/17 0:00	13.705	13.700	13.673	13.691	13.763	13.719	13.689
4/5/17 2:00	13.718	13.681	13.698	13.688	13.751	13.733	13.690
4/5/17 4:00	13.726	13.712	13.714	13.715	13.782	13.743	13.712
4/5/17 6:00	13.742	13.738	13.710	13.728	13.799	13.755	13.726
4/5/17 8:00	13.755	13.721	13.737	13.728	13.791	13.770	13.730
4/5/17 10:00	13.762	13.748	13.749	13.749	13.815	13.778	13.748
4/5/17 12:00	13.768	13.763	13.736	13.754	13.828	13.779	13.751
4/5/17 14:00	13.760	13.725	13.740	13.732	13.793	13.774	13.734
4/5/17 16:00	13.755	13.735	13.737	13.737	13.806	13.766	13.736
4/5/17 18:00	13.758	13.751	13.725	13.742	13.814	13.768	13.740
4/5/17 20:00	13.770	13.737	13.753	13.745	13.804	13.785	13.746
4/5/17 22:00	13.785	13.771	13.774	13.775	13.842	13.801	13.772
4/6/17 0:00	13.802	13.800	13.774	13.791	13.863	13.815	13.788
4/6/17 2:00	13.818	13.787	13.804	13.795	13.858	13.833	13.797
4/6/17 4:00	13.825	13.813	13.815	13.815	13.881	13.841	13.812
4/6/17 6:00	13.832	13.830	13.806	13.823	13.893	13.845	13.819
4/6/17 8:00	13.858	13.829	13.845	13.836	13.898	13.875	13.837
4/6/17 10:00	13.876	13.863	13.866	13.866	13.932	13.891	13.864
4/6/17 12:00	13.883	13.880	13.855	13.872	13.945	13.894	13.869
4/6/17 14:00	13.868	13.835	13.850	13.841	13.903	13.879	13.843
4/6/17 16:00	13.855	13.835	13.837	13.837	13.906	13.863	13.836
4/6/17 18:00	13.845	13.835	13.811	13.828	13.900	13.851	13.826
4/6/17 20:00	13.833	13.801	13.816	13.807	13.868	13.846	13.809
4/6/17 22:00	13.842	13.830	13.833	13.833	13.901	13.858	13.831
4/7/17 0:00	13.839	13.839	13.816	13.832	13.903	13.854	13.830
4/7/17 2:00	13.838	13.811	13.828	13.818	13.883	13.854	13.819
4/7/17 4:00	13.827	13.816	13.819	13.819	13.885	13.842	13.816
4/7/17 6:00	13.813	13.814	13.791	13.806	13.877	13.826	13.803
4/7/17 8:00	13.813	13.788	13.803	13.794	13.856	13.828	13.795
4/7/17 10:00	13.795	13.787	13.788	13.790	13.854	13.811	13.785
4/7/17 12:00	13.769	13.768	13.745	13.762	13.835	13.781	13.758
4/7/17 14:00	13.730	13.695	13.712	13.704	13.763	13.740	13.705
4/7/17 16:00	13.705	13.687	13.690	13.691	13.755	13.713	13.689
4/7/17 18:00	13.676	13.666	13.643	13.659	13.731	13.680	13.657
4/7/17 20:00	13.660	13.629	13.646	13.638	13.696	13.673	13.640
4/7/17 22:00	13.650	13.638	13.642	13.643	13.710	13.665	13.640
4/8/17 0:00	13.632	13.632	13.609	13.626	13.696	13.645	13.623
4/8/17 2:00	13.612	13.586	13.602	13.593	13.656	13.627	13.594

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/8/17 4:00	13.587	13.576	13.580	13.581	13.647	13.603	13.578
4/8/17 6:00	13.576	13.576	13.554	13.569	13.640	13.589	13.566
4/8/17 8:00	13.576	13.550	13.566	13.557	13.620	13.591	13.559
4/8/17 10:00	13.569	13.557	13.560	13.561	13.626	13.583	13.559
4/8/17 12:00	13.580	13.574	13.551	13.568	13.641	13.587	13.566
4/8/17 14:00	13.567	13.532	13.549	13.542	13.600	13.574	13.542
4/8/17 16:00	13.555	13.532	13.536	13.536	13.599	13.558	13.534
4/8/17 18:00	13.538	13.528	13.504	13.521	13.592	13.539	13.518
4/8/17 20:00	13.527	13.496	13.512	13.505	13.564	13.538	13.507
4/8/17 22:00	13.529	13.518	13.521	13.522	13.588	13.543	13.520
4/9/17 0:00	13.518	13.520	13.498	13.514	13.584	13.532	13.511
4/9/17 2:00	13.507	13.478	13.497	13.488	13.551	13.522	13.490
4/9/17 4:00	13.500	13.489	13.493	13.493	13.559	13.515	13.491
4/9/17 6:00	13.492	13.493	13.470	13.485	13.556	13.504	13.484
4/9/17 8:00	13.512	13.486	13.502	13.496	13.556	13.527	13.496
4/9/17 10:00	13.517	13.507	13.511	13.511	13.576	13.532	13.509
4/9/17 12:00	13.534	13.531	13.509	13.523	13.597	13.541	13.521
4/9/17 14:00	13.537	13.500	13.518	13.510	13.570	13.542	13.511
4/9/17 16:00	13.531	13.507	13.511	13.511	13.575	13.532	13.509
4/9/17 18:00	13.540	13.529	13.507	13.523	13.595	13.541	13.521
4/9/17 20:00	13.594	13.564	13.582	13.575	13.633	13.606	13.576
4/9/17 22:00	13.638	13.628	13.632	13.633	13.699	13.653	13.631
4/10/17 0:00	13.657	13.661	13.638	13.654	13.724	13.671	13.652
4/10/17 2:00	13.681	13.658	13.674	13.666	13.725	13.697	13.668
4/10/17 4:00	13.700	13.693	13.697	13.698	13.762	13.716	13.695
4/10/17 6:00	13.715	13.721	13.699	13.714	13.783	13.729	13.711
4/10/17 8:00	13.730	13.708	13.725	13.717	13.780	13.746	13.718
4/10/17 10:00	13.759	13.752	13.756	13.757	13.822	13.775	13.754
4/10/17 12:00	13.796	13.798	13.778	13.793	13.861	13.808	13.790
4/10/17 14:00	13.794	13.768	13.787	13.778	13.838	13.807	13.781
4/10/17 16:00	13.806	13.794	13.799	13.800	13.863	13.817	13.798
4/10/17 18:00	13.811	13.813	13.792	13.808	13.879	13.821	13.805
4/10/17 20:00	13.827	13.802	13.820	13.812	13.871	13.841	13.814
4/10/17 22:00	13.846	13.838	13.845	13.845	13.907	13.861	13.841
4/11/17 0:00	13.858	13.863	13.843	13.858	13.929	13.871	13.855
4/11/17 2:00	13.863	13.842	13.859	13.851	13.910	13.878	13.852
4/11/17 4:00	13.861	13.854	13.860	13.860	13.926	13.875	13.856
4/11/17 6:00	13.876	13.880	13.862	13.875	13.946	13.888	13.872
4/11/17 8:00	13.891	13.871	13.887	13.880	13.939	13.905	13.881
4/11/17 10:00	13.895	13.889	13.895	13.894	13.960	13.911	13.892
4/11/17 12:00	13.890	13.896	13.876	13.891	13.959	13.902	13.887
4/11/17 14:00	13.852	13.826	13.844	13.837	13.895	13.862	13.837
4/11/17 16:00	13.820	13.807	13.812	13.813	13.876	13.828	13.810
4/11/17 18:00	13.805	13.801	13.782	13.796	13.864	13.808	13.793
4/11/17 20:00	13.801	13.780	13.796	13.789	13.850	13.814	13.789
4/11/17 22:00	13.818	13.810	13.817	13.817	13.880	13.833	13.815
4/12/17 0:00	13.811	13.818	13.800	13.813	13.884	13.825	13.810

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/12/17 2:00	13.809	13.790	13.807	13.800	13.859	13.824	13.800
4/12/17 4:00	13.805	13.800	13.806	13.806	13.867	13.820	13.803
4/12/17 6:00	13.800	13.807	13.788	13.801	13.873	13.814	13.799
4/12/17 8:00	13.791	13.775	13.790	13.783	13.843	13.807	13.784
4/12/17 10:00	13.783	13.777	13.783	13.784	13.849	13.798	13.781
4/12/17 12:00	13.774	13.780	13.762	13.775	13.844	13.788	13.773
4/12/17 14:00	13.744	13.717	13.734	13.728	13.785	13.751	13.728
4/12/17 16:00	13.742	13.723	13.729	13.727	13.792	13.745	13.723
4/12/17 18:00	13.744	13.737	13.719	13.728	13.800	13.746	13.726
4/12/17 20:00	13.760	13.734	13.753	13.739	13.804	13.772	13.741
4/12/17 22:00	13.779	13.771	13.778	13.770	13.840	13.794	13.769
4/13/17 0:00	13.792	13.796	13.778	13.785	13.863	13.805	13.783
4/13/17 2:00	13.787	13.767	13.784	13.770	13.835	13.803	13.772
4/13/17 4:00	13.787	13.782	13.788	13.783	13.849	13.804	13.781
4/13/17 6:00	13.797	13.803	13.786	13.794	13.869	13.811	13.791
4/13/17 8:00	13.806	13.786	13.805	13.792	13.855	13.822	13.793
4/13/17 10:00	13.817	13.810	13.817	13.812	13.881	13.831	13.809
4/13/17 12:00	13.819	13.819	13.801	13.811	13.884	13.827	13.808
4/13/17 14:00	13.793	13.766	13.784	13.772	13.834	13.801	13.773
4/13/17 16:00	13.780	13.765	13.772	13.769	13.835	13.787	13.766
4/13/17 18:00	13.769	13.770	13.750	13.763	13.835	13.770	13.760
4/13/17 20:00	13.752	13.729	13.746	13.739	13.801	13.758	13.739
4/13/17 22:00	13.757	13.748	13.753	13.752	13.818	13.766	13.750
4/14/17 0:00	13.749	13.753	13.733	13.746	13.816	13.758	13.743
4/14/17 2:00	13.733	13.709	13.728	13.718	13.780	13.745	13.720
4/14/17 4:00	13.711	13.700	13.706	13.705	13.770	13.716	13.702
4/14/17 6:00	13.689	13.693	13.673	13.685	13.759	13.694	13.683
4/14/17 8:00	13.685	13.661	13.678	13.671	13.730	13.689	13.672
4/14/17 10:00	13.670	13.661	13.667	13.666	13.728	13.678	13.662
4/14/17 12:00	13.648	13.649	13.629	13.642	13.714	13.657	13.639
4/14/17 14:00	13.627	13.597	13.614	13.606	13.665	13.632	13.606
4/14/17 16:00	13.616	13.592	13.599	13.597	13.663	13.615	13.594
4/14/17 18:00	13.606	13.592	13.575	13.587	13.657	13.602	13.584
4/14/17 20:00	13.591	13.564	13.580	13.573	13.629	13.599	13.573
4/14/17 22:00	13.593	13.584	13.590	13.590	13.654	13.607	13.586
4/15/17 0:00	13.602	13.606	13.587	13.599	13.668	13.614	13.596
4/15/17 2:00	13.617	13.597	13.614	13.606	13.667	13.632	13.607
4/15/17 4:00	13.597	13.590	13.597	13.597	13.660	13.613	13.594
4/15/17 6:00	13.609	13.616	13.598	13.612	13.678	13.625	13.607
4/15/17 8:00	13.608	13.590	13.606	13.599	13.658	13.624	13.599
4/15/17 10:00	13.630	13.620	13.626	13.626	13.688	13.642	13.623
4/15/17 12:00	13.655	13.652	13.634	13.647	13.718	13.660	13.644
4/15/17 14:00	13.657	13.626	13.644	13.637	13.695	13.661	13.638
4/15/17 16:00	13.669	13.645	13.651	13.653	13.713	13.666	13.650
4/15/17 18:00	13.678	13.672	13.655	13.668	13.738	13.680	13.666
4/15/17 20:00	13.682	13.660	13.674	13.670	13.726	13.690	13.670
4/15/17 22:00	13.697	13.692	13.698	13.699	13.763	13.712	13.696

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/16/17 0:00	13.730	13.737	13.720	13.732	13.801	13.744	13.730
4/16/17 2:00	13.738	13.721	13.738	13.733	13.789	13.754	13.733
4/16/17 4:00	13.751	13.747	13.754	13.757	13.818	13.768	13.752
4/16/17 6:00	13.767	13.777	13.760	13.772	13.839	13.783	13.769
4/16/17 8:00	13.793	13.776	13.795	13.787	13.849	13.810	13.788
4/16/17 10:00	13.811	13.808	13.815	13.816	13.878	13.826	13.812
4/16/17 12:00	13.820	13.829	13.812	13.825	13.892	13.832	13.822
4/16/17 14:00	13.812	13.795	13.814	13.808	13.865	13.827	13.808
4/16/17 16:00	13.800	13.793	13.801	13.802	13.861	13.813	13.798
4/16/17 18:00	13.799	13.802	13.786	13.799	13.867	13.808	13.796
4/16/17 20:00	13.792	13.776	13.794	13.790	13.845	13.807	13.789
4/16/17 22:00	13.806	13.804	13.812	13.813	13.876	13.823	13.809
4/17/17 0:00	13.804	13.815	13.799	13.813	13.880	13.820	13.809
4/17/17 2:00	13.808	13.796	13.812	13.808	13.862	13.825	13.807
4/17/17 4:00	13.806	13.804	13.813	13.812	13.875	13.823	13.810
4/17/17 6:00	13.807	13.819	13.803	13.817	13.883	13.824	13.813
4/17/17 8:00	13.821	13.809	13.827	13.822	13.880	13.840	13.821
4/17/17 10:00	13.818	13.816	13.824	13.824	13.885	13.834	13.821
4/17/17 12:00	13.818	13.822	13.808	13.820	13.886	13.827	13.817
4/17/17 14:00	13.793	13.771	13.790	13.787	13.842	13.803	13.786
4/17/17 16:00	13.773	13.759	13.767	13.769	13.826	13.777	13.765
4/17/17 18:00	13.744	13.747	13.732	13.747	13.814	13.751	13.743
4/17/17 20:00	13.730	13.719	13.734	13.732	13.786	13.745	13.730
4/17/17 22:00	13.727	13.726	13.733	13.736	13.793	13.743	13.731
4/18/17 0:00	13.725	13.735	13.721	13.735	13.802	13.740	13.731
4/18/17 2:00	13.720	13.710	13.727	13.724	13.777	13.737	13.722
4/18/17 4:00	13.705	13.705	13.713	13.715	13.775	13.722	13.710
4/18/17 6:00	13.704	13.714	13.700	13.712	13.779	13.718	13.709
4/18/17 8:00	13.717	13.705	13.722	13.719	13.776	13.733	13.719
4/18/17 10:00	13.721	13.718	13.726	13.729	13.788	13.736	13.725
4/18/17 12:00	13.721	13.722	13.709	13.722	13.785	13.726	13.718
4/18/17 14:00	13.712	13.690	13.708	13.706	13.760	13.717	13.705
4/18/17 16:00	13.711	13.693	13.701	13.705	13.761	13.709	13.700
4/18/17 18:00	13.698	13.698	13.683	13.698	13.764	13.700	13.694
4/18/17 20:00	13.687	13.672	13.689	13.688	13.740	13.698	13.686
4/18/17 22:00	13.694	13.693	13.700	13.704	13.761	13.709	13.700
4/19/17 0:00	13.691	13.702	13.690	13.703	13.768	13.705	13.699
4/19/17 2:00	13.688	13.675	13.693	13.692	13.743	13.703	13.691
4/19/17 4:00	13.671	13.671	13.680	13.683	13.743	13.688	13.679
4/19/17 6:00	13.651	13.664	13.650	13.664	13.728	13.667	13.659
4/19/17 8:00	13.643	13.632	13.651	13.649	13.703	13.660	13.647
4/19/17 10:00	13.626	13.625	13.634	13.637	13.695	13.641	13.633
4/19/17 12:00	13.628	13.633	13.619	13.635	13.696	13.635	13.629
4/19/17 14:00	13.624	13.603	13.621	13.621	13.675	13.629	13.618
4/19/17 16:00	13.658	13.648	13.655	13.661	13.716	13.662	13.656
4/19/17 18:00	13.677	13.681	13.668	13.683	13.748	13.682	13.679
4/19/17 20:00	13.687	13.677	13.693	13.693	13.746	13.700	13.691

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/19/17 22:00	13.716	13.720	13.727	13.732	13.787	13.734	13.728
4/20/17 0:00	13.758	13.776	13.764	13.777	13.841	13.776	13.772
4/20/17 2:00	13.804	13.804	13.818	13.819	13.869	13.823	13.815
4/20/17 4:00	13.815	13.822	13.828	13.835	13.892	13.832	13.827
4/20/17 6:00	13.793	13.808	13.796	13.811	13.874	13.809	13.806
4/20/17 8:00	13.810	13.806	13.822	13.823	13.874	13.827	13.820
4/20/17 10:00	13.818	13.820	13.830	13.834	13.891	13.833	13.829
4/20/17 12:00	13.826	13.838	13.826	13.840	13.902	13.837	13.835
4/20/17 14:00	13.810	13.803	13.819	13.821	13.872	13.823	13.816
4/20/17 16:00	13.785	13.782	13.790	13.795	13.850	13.793	13.788
4/20/17 18:00	13.776	13.781	13.770	13.783	13.848	13.780	13.778
4/20/17 20:00	13.765	13.759	13.777	13.776	13.829	13.780	13.774
4/20/17 22:00	13.781	13.788	13.796	13.800	13.856	13.799	13.794
4/21/17 0:00	13.801	13.818	13.809	13.821	13.886	13.818	13.816
4/21/17 2:00	13.793	13.791	13.808	13.809	13.861	13.811	13.805
4/21/17 4:00	13.795	13.800	13.809	13.813	13.868	13.810	13.808
4/21/17 6:00	13.811	13.829	13.819	13.831	13.895	13.827	13.826
4/21/17 8:00	13.779	13.779	13.795	13.796	13.848	13.797	13.792
4/21/17 10:00	13.779	13.787	13.796	13.800	13.858	13.798	13.794
4/21/17 12:00	13.790	13.808	13.798	13.810	13.874	13.806	13.806
4/21/17 14:00	13.778	13.775	13.792	13.792	13.842	13.794	13.789
4/21/17 16:00	13.781	13.788	13.798	13.802	13.858	13.799	13.796
4/21/17 18:00	13.794	13.812	13.803	13.815	13.877	13.811	13.809
4/21/17 20:00	13.810	13.811	13.826	13.826	13.881	13.827	13.822
4/21/17 22:00	13.834	13.841	13.850	13.855	13.911	13.848	13.849
4/22/17 0:00	13.840	13.858	13.849	13.862	13.923	13.852	13.856
4/22/17 2:00	13.842	13.844	13.859	13.860	13.913	13.858	13.856
4/22/17 4:00	13.838	13.847	13.856	13.859	13.915	13.857	13.855
4/22/17 6:00	13.848	13.865	13.856	13.869	13.933	13.862	13.862
4/22/17 8:00	13.870	13.872	13.887	13.889	13.941	13.888	13.884
4/22/17 10:00	13.878	13.885	13.896	13.899	13.954	13.896	13.893
4/22/17 12:00	13.881	13.898	13.890	13.902	13.964	13.896	13.895
4/22/17 14:00	13.870	13.869	13.885	13.887	13.936	13.886	13.882
4/22/17 16:00	13.859	13.861	13.870	13.874	13.931	13.870	13.868
4/22/17 18:00	13.853	13.864	13.855	13.867	13.928	13.862	13.861
4/22/17 20:00	13.845	13.843	13.860	13.859	13.914	13.860	13.856
4/22/17 22:00	13.851	13.860	13.870	13.873	13.930	13.869	13.866
4/23/17 0:00	13.850	13.870	13.863	13.873	13.933	13.868	13.867
4/23/17 2:00	13.849	13.851	13.868	13.868	13.921	13.868	13.863
4/23/17 4:00	13.832	13.842	13.852	13.855	13.910	13.851	13.849
4/23/17 6:00	13.825	13.843	13.837	13.847	13.911	13.842	13.841
4/23/17 8:00	13.827	13.830	13.847	13.846	13.900	13.846	13.842
4/23/17 10:00	13.821	13.829	13.840	13.842	13.897	13.838	13.836
4/23/17 12:00	13.810	13.828	13.820	13.830	13.893	13.825	13.824
4/23/17 14:00	13.764	13.765	13.780	13.781	13.832	13.779	13.775
4/23/17 16:00	13.734	13.736	13.746	13.748	13.807	13.745	13.742
4/23/17 18:00	13.703	13.718	13.711	13.721	13.782	13.715	13.714

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/23/17 20:00	13.681	13.685	13.700	13.700	13.752	13.699	13.695
4/23/17 22:00	13.673	13.682	13.693	13.696	13.752	13.691	13.689
4/24/17 0:00	13.658	13.678	13.673	13.681	13.742	13.675	13.675
4/24/17 2:00	13.641	13.647	13.661	13.663	13.717	13.660	13.656
4/24/17 4:00	13.606	13.617	13.628	13.630	13.686	13.625	13.623
4/24/17 6:00	13.575	13.596	13.589	13.599	13.659	13.593	13.592
4/24/17 8:00	13.571	13.578	13.592	13.593	13.646	13.591	13.587
4/24/17 10:00	13.547	13.555	13.566	13.568	13.624	13.564	13.562
4/24/17 12:00	13.534	13.549	13.543	13.552	13.616	13.545	13.545
4/24/17 14:00	13.523	13.521	13.538	13.536	13.590	13.533	13.531
4/24/17 16:00	13.526	13.521	13.532	13.534	13.592	13.529	13.528
4/24/17 18:00	13.529	13.535	13.530	13.537	13.600	13.530	13.531
4/24/17 20:00	13.521	13.520	13.536	13.536	13.588	13.533	13.530
4/24/17 22:00	13.523	13.532	13.544	13.545	13.604	13.540	13.540
4/25/17 0:00	13.520	13.543	13.538	13.546	13.607	13.538	13.539
4/25/17 2:00	13.506	13.513	13.529	13.528	13.585	13.525	13.523
4/25/17 4:00	13.491	13.503	13.513	13.515	13.572	13.509	13.509
4/25/17 6:00	13.492	13.512	13.508	13.516	13.576	13.509	13.510
4/25/17 8:00	13.496	13.501	13.517	13.515	13.572	13.514	13.512
4/25/17 10:00	13.524	13.537	13.547	13.550	13.604	13.543	13.543
4/25/17 12:00	13.522	13.541	13.537	13.545	13.609	13.538	13.539
4/25/17 14:00	13.535	13.543	13.559	13.558	13.612	13.554	13.553
4/25/17 16:00	13.544	13.554	13.565	13.566	13.622	13.561	13.560
4/25/17 18:00	13.556	13.576	13.573	13.580	13.643	13.572	13.574
4/25/17 20:00	13.580	13.588	13.604	13.603	13.656	13.600	13.598
4/25/17 22:00	13.602	13.614	13.626	13.627	13.686	13.621	13.620
4/26/17 0:00	13.614	13.634	13.631	13.638	13.699	13.630	13.631
4/26/17 2:00	13.615	13.622	13.639	13.639	13.694	13.634	13.632
4/26/17 4:00	13.627	13.640	13.652	13.653	13.709	13.646	13.646
4/26/17 6:00	13.629	13.650	13.647	13.654	13.715	13.647	13.648
4/26/17 8:00	13.640	13.648	13.664	13.663	13.719	13.659	13.658
4/26/17 10:00	13.635	13.647	13.658	13.660	13.716	13.653	13.653
4/26/17 12:00	13.632	13.653	13.651	13.658	13.718	13.649	13.651
4/26/17 14:00	13.629	13.637	13.653	13.651	13.707	13.647	13.646
4/26/17 16:00	13.623	13.636	13.648	13.649	13.704	13.643	13.643
4/26/17 18:00	13.608	13.626	13.624	13.630	13.694	13.622	13.623
4/26/17 20:00	13.603	13.610	13.626	13.624	13.679	13.620	13.618
4/26/17 22:00	13.619	13.630	13.643	13.643	13.698	13.637	13.636
4/27/17 0:00	13.628	13.650	13.647	13.653	13.716	13.646	13.647
4/27/17 2:00	13.633	13.641	13.656	13.654	13.708	13.651	13.649
4/27/17 4:00	13.615	13.625	13.638	13.637	13.696	13.632	13.632
4/27/17 6:00	13.611	13.633	13.631	13.636	13.698	13.628	13.630
4/27/17 8:00	13.612	13.621	13.639	13.636	13.693	13.632	13.631
4/27/17 10:00	13.620	13.633	13.645	13.645	13.703	13.639	13.638
4/27/17 12:00	13.606	13.629	13.627	13.632	13.693	13.625	13.626
4/27/17 14:00	13.581	13.592	13.607	13.605	13.662	13.602	13.600
4/27/17 16:00	13.575	13.588	13.601	13.600	13.657	13.594	13.593

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
4/27/17 18:00	13.574	13.597	13.593	13.599	13.665	13.588	13.593
4/27/17 20:00	13.575	13.587	13.602	13.600	13.655	13.595	13.593
4/27/17 22:00	13.584	13.595	13.609	13.609	13.665	13.603	13.602
4/28/17 0:00	13.577	13.600	13.596	13.603	13.666	13.591	13.597
4/28/17 2:00	13.571	13.571	13.588	13.590	13.638	13.589	13.586
4/28/17 4:00	13.562	13.563	13.575	13.582	13.634	13.578	13.577
4/28/17 6:00	13.558	13.569	13.555	13.577	13.633	13.570	13.572
4/28/17 8:00	13.566	13.557	13.572	13.578	13.623	13.579	13.576
4/28/17 10:00	13.575	13.573	13.581	13.592	13.642	13.588	13.587
4/28/17 12:00	13.591	13.603	13.587	13.610	13.665	13.605	13.604
4/28/17 14:00	13.629	13.618	13.634	13.638	13.688	13.643	13.637
4/28/17 16:00	13.658	13.658	13.668	13.676	13.728	13.675	13.672
4/28/17 18:00	13.684	13.695	13.682	13.700	13.764	13.697	13.696
4/28/17 20:00	13.715	13.711	13.724	13.731	13.778	13.731	13.725
4/28/17 22:00	13.761	13.763	13.772	13.779	13.831	13.778	13.774
4/29/17 0:00	13.759	13.773	13.759	13.778	13.838	13.773	13.772
4/29/17 2:00	13.740	13.737	13.751	13.754	13.804	13.757	13.751
4/29/17 4:00	13.745	13.746	13.753	13.759	13.817	13.760	13.756
4/29/17 6:00	13.754	13.771	13.755	13.775	13.833	13.769	13.769
4/29/17 8:00	13.755	13.752	13.764	13.771	13.817	13.771	13.766
4/29/17 10:00	13.759	13.757	13.764	13.773	13.827	13.772	13.769
4/29/17 12:00	13.755	13.768	13.753	13.772	13.831	13.770	13.769
4/29/17 14:00	13.741	13.735	13.749	13.754	13.804	13.758	13.752
4/29/17 16:00	13.724	13.725	13.732	13.741	13.793	13.738	13.737
4/29/17 18:00	13.729	13.741	13.725	13.745	13.807	13.740	13.741
4/29/17 20:00	13.733	13.687	13.703	13.716	13.754	13.738	13.718
4/29/17 22:00	13.740	13.702	13.706	13.727	13.769	13.739	13.726
4/30/17 0:00	13.705	13.661	13.618	13.667	13.719	13.687	13.665
4/30/17 2:00	13.680	13.578	13.605	13.601	13.644	13.650	13.607
4/30/17 4:00	13.634	13.560	13.563	13.570	13.630	13.609	13.571
4/30/17 6:00	13.598	13.419	13.375	13.422	13.478	13.487	13.425
4/30/17 8:00	13.529	13.329	13.367	13.343	13.396	13.444	13.348
4/30/17 10:00	13.580	13.320	13.346	13.334	13.391	13.445	13.334
4/30/17 12:00	13.569	13.336	13.283	13.312	13.392	13.388	13.312
4/30/17 14:00	13.557	13.306	13.343	13.292	13.375	13.409	13.298
4/30/17 16:00	13.556	13.392	13.391	13.369	13.460	13.439	13.369
4/30/17 18:00	13.561	13.430	13.358	13.381	13.484	13.418	13.381
4/30/17 20:00	13.569	13.397	13.418	13.366	13.463	13.457	13.372
4/30/17 22:00	13.576	13.459	13.449	13.424	13.525	13.476	13.423
5/1/17 0:00	13.583	13.481	13.408	13.426	13.539	13.450	13.426
5/1/17 2:00	13.583	13.430	13.443	13.389	13.495	13.474	13.396
5/1/17 4:00	13.594	13.479	13.467	13.440	13.546	13.492	13.439
5/1/17 6:00	13.610	13.516	13.443	13.457	13.573	13.483	13.458
5/1/17 8:00	13.630	13.497	13.510	13.455	13.561	13.535	13.461
5/1/17 10:00	13.644	13.562	13.552	13.521	13.630	13.598	13.520
5/1/17 12:00	13.663	13.604	13.541	13.546	13.661	13.602	13.546
5/1/17 14:00	13.662	13.567	13.583	13.526	13.635	13.643	13.531

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/1/17 16:00	13.657	13.600	13.595	13.566	13.667	13.651	13.564
5/1/17 18:00	13.659	13.621	13.574	13.577	13.679	13.647	13.575
5/1/17 20:00	13.667	13.604	13.616	13.575	13.670	13.668	13.578
5/1/17 22:00	13.691	13.653	13.653	13.630	13.720	13.696	13.628
5/2/17 0:00	13.719	13.697	13.657	13.660	13.755	13.718	13.658
5/2/17 2:00	13.728	13.676	13.690	13.653	13.742	13.733	13.657
5/2/17 4:00	13.727	13.696	13.697	13.677	13.762	13.734	13.674
5/2/17 6:00	13.733	13.718	13.679	13.684	13.778	13.733	13.682
5/2/17 8:00	13.749	13.699	13.715	13.681	13.766	13.755	13.684
5/2/17 10:00	13.759	13.727	13.729	13.711	13.794	13.763	13.708
5/2/17 12:00	13.769	13.754	13.716	13.723	13.814	13.767	13.721
5/2/17 14:00	13.769	13.719	13.733	13.703	13.783	13.769	13.706
5/2/17 16:00	13.754	13.721	13.722	13.708	13.789	13.755	13.705
5/2/17 18:00	13.754	13.739	13.704	13.712	13.800	13.753	13.711
5/2/17 20:00	13.757	13.712	13.726	13.700	13.775	13.760	13.703
5/2/17 22:00	13.763	13.734	13.737	13.723	13.803	13.765	13.721
5/3/17 0:00	13.758	13.748	13.713	13.721	13.807	13.758	13.720
5/3/17 2:00	13.761	13.718	13.733	13.707	13.786	13.766	13.709
5/3/17 4:00	13.751	13.725	13.727	13.714	13.793	13.756	13.712
5/3/17 6:00	13.764	13.755	13.721	13.727	13.817	13.764	13.727
5/3/17 8:00	13.780	13.738	13.753	13.727	13.805	13.785	13.730
5/3/17 10:00	13.784	13.757	13.759	13.745	13.823	13.787	13.744
5/3/17 12:00	13.779	13.768	13.733	13.743	13.828	13.776	13.741
5/3/17 14:00	13.767	13.726	13.738	13.716	13.792	13.768	13.718
5/3/17 16:00	13.775	13.747	13.746	13.737	13.816	13.758	13.736
5/3/17 18:00	13.788	13.773	13.739	13.749	13.835	13.778	13.749
5/3/17 20:00	13.793	13.751	13.765	13.743	13.816	13.795	13.744
5/3/17 22:00	13.817	13.793	13.796	13.785	13.862	13.823	13.783
5/4/17 0:00	13.830	13.823	13.791	13.801	13.882	13.832	13.799
5/4/17 2:00	13.826	13.789	13.804	13.781	13.858	13.832	13.782
5/4/17 4:00	13.815	13.794	13.797	13.785	13.861	13.822	13.783
5/4/17 6:00	13.812	13.807	13.777	13.784	13.865	13.814	13.782
5/4/17 8:00	13.824	13.790	13.803	13.781	13.858	13.830	13.782
5/4/17 10:00	13.834	13.811	13.814	13.802	13.878	13.837	13.800
5/4/17 12:00	13.833	13.823	13.793	13.802	13.886	13.828	13.801
5/4/17 14:00	13.817	13.775	13.791	13.770	13.841	13.816	13.772
5/4/17 16:00	13.808	13.782	13.783	13.775	13.846	13.805	13.772
5/4/17 18:00	13.804	13.790	13.759	13.772	13.852	13.795	13.769
5/4/17 20:00	13.794	13.757	13.770	13.751	13.822	13.795	13.753
5/4/17 22:00	13.795	13.779	13.781	13.772	13.846	13.803	13.770
5/5/17 0:00	13.792	13.789	13.761	13.772	13.850	13.795	13.769
5/5/17 2:00	13.791	13.763	13.775	13.756	13.827	13.798	13.758
5/5/17 4:00	13.789	13.773	13.776	13.767	13.841	13.796	13.765
5/5/17 6:00	13.784	13.781	13.754	13.763	13.843	13.786	13.761
5/5/17 8:00	13.795	13.768	13.782	13.762	13.836	13.802	13.763
5/5/17 10:00	13.794	13.776	13.778	13.770	13.842	13.797	13.767
5/5/17 12:00	13.787	13.780	13.750	13.761	13.843	13.779	13.758

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/5/17 14:00	13.761	13.723	13.739	13.720	13.790	13.757	13.722
5/5/17 16:00	13.743	13.715	13.718	13.711	13.780	13.734	13.708
5/5/17 18:00	13.728	13.709	13.681	13.691	13.770	13.709	13.688
5/5/17 20:00	13.713	13.673	13.689	13.672	13.740	13.708	13.673
5/5/17 22:00	13.716	13.700	13.704	13.696	13.769	13.721	13.694
5/6/17 0:00	13.714	13.716	13.690	13.700	13.777	13.718	13.697
5/6/17 2:00	13.717	13.691	13.706	13.688	13.756	13.724	13.690
5/6/17 4:00	13.712	13.698	13.703	13.695	13.767	13.719	13.692
5/6/17 6:00	13.716	13.719	13.693	13.703	13.779	13.719	13.700
5/6/17 8:00	13.724	13.696	13.714	13.696	13.765	13.730	13.697
5/6/17 10:00	13.728	13.707	13.712	13.705	13.775	13.726	13.702
5/6/17 12:00	13.728	13.716	13.690	13.700	13.776	13.714	13.698
5/6/17 14:00	13.718	13.677	13.692	13.676	13.745	13.707	13.677
5/6/17 16:00	13.707	13.674	13.678	13.672	13.741	13.691	13.670
5/6/17 18:00	13.698	13.676	13.651	13.662	13.739	13.675	13.658
5/6/17 20:00	13.682	13.651	13.663	13.649	13.716	13.678	13.649
5/6/17 22:00	13.686	13.676	13.680	13.674	13.740	13.693	13.671
5/7/17 0:00	13.692	13.696	13.674	13.683	13.759	13.696	13.680
5/7/17 2:00	13.692	13.673	13.688	13.673	13.740	13.702	13.674
5/7/17 4:00	13.696	13.687	13.693	13.686	13.752	13.705	13.683
5/7/17 6:00	13.695	13.700	13.678	13.688	13.762	13.699	13.684
5/7/17 8:00	13.697	13.678	13.691	13.677	13.742	13.704	13.677
5/7/17 10:00	13.688	13.673	13.678	13.672	13.741	13.688	13.669
5/7/17 12:00	13.683	13.677	13.654	13.664	13.737	13.673	13.660
5/7/17 14:00	13.666	13.631	13.645	13.634	13.700	13.656	13.633
5/7/17 16:00	13.653	13.623	13.630	13.625	13.692	13.638	13.622
5/7/17 18:00	13.635	13.630	13.609	13.620	13.690	13.625	13.617
5/7/17 20:00	13.633	13.605	13.623	13.614	13.674	13.633	13.613
5/7/17 22:00	13.651	13.642	13.648	13.645	13.708	13.657	13.642
5/8/17 0:00	13.665	13.673	13.652	13.664	13.736	13.670	13.660
5/8/17 2:00	13.690	13.675	13.692	13.682	13.741	13.701	13.681
5/8/17 4:00	13.681	13.674	13.680	13.677	13.739	13.688	13.674
5/8/17 6:00	13.675	13.682	13.662	13.674	13.745	13.679	13.669
5/8/17 8:00	13.690	13.674	13.688	13.678	13.738	13.697	13.677
5/8/17 10:00	13.706	13.694	13.701	13.698	13.763	13.709	13.695
5/8/17 12:00	13.719	13.715	13.695	13.707	13.777	13.709	13.703
5/8/17 14:00	13.710	13.681	13.697	13.689	13.752	13.703	13.688
5/8/17 16:00	13.706	13.680	13.688	13.688	13.750	13.693	13.684
5/8/17 18:00	13.695	13.687	13.670	13.683	13.749	13.681	13.678
5/8/17 20:00	13.694	13.671	13.687	13.682	13.743	13.692	13.680
5/8/17 22:00	13.700	13.696	13.703	13.704	13.763	13.708	13.699
5/9/17 0:00	13.719	13.728	13.713	13.724	13.793	13.724	13.720
5/9/17 2:00	13.733	13.721	13.738	13.732	13.790	13.743	13.731
5/9/17 4:00	13.721	13.720	13.727	13.728	13.785	13.732	13.723
5/9/17 6:00	13.721	13.731	13.716	13.727	13.795	13.727	13.723
5/9/17 8:00	13.733	13.723	13.738	13.733	13.790	13.742	13.731
5/9/17 10:00	13.742	13.738	13.746	13.748	13.807	13.750	13.743

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/9/17 12:00	13.738	13.744	13.729	13.742	13.806	13.738	13.736
5/9/17 14:00	13.715	13.700	13.715	13.712	13.766	13.717	13.708
5/9/17 16:00	13.705	13.690	13.700	13.701	13.759	13.701	13.696
5/9/17 18:00	13.675	13.683	13.668	13.682	13.744	13.677	13.676
5/9/17 20:00	13.666	13.652	13.669	13.667	13.722	13.672	13.664
5/9/17 22:00	13.670	13.667	13.678	13.679	13.735	13.680	13.675
5/10/17 0:00	13.670	13.681	13.668	13.681	13.747	13.678	13.675
5/10/17 2:00	13.660	13.650	13.668	13.664	13.717	13.671	13.661
5/10/17 4:00	13.663	13.664	13.673	13.676	13.729	13.675	13.670
5/10/17 6:00	13.663	13.677	13.664	13.676	13.742	13.672	13.671
5/10/17 8:00	13.669	13.660	13.678	13.674	13.727	13.680	13.672
5/10/17 10:00	13.691	13.689	13.699	13.702	13.759	13.701	13.696
5/10/17 12:00	13.687	13.692	13.680	13.693	13.755	13.687	13.687
5/10/17 14:00	13.699	13.683	13.701	13.699	13.749	13.703	13.697
5/10/17 16:00	13.704	13.696	13.707	13.710	13.765	13.707	13.704
5/10/17 18:00	13.709	13.717	13.706	13.718	13.779	13.711	13.712
5/10/17 20:00	13.721	13.713	13.732	13.729	13.783	13.732	13.727
5/10/17 22:00	13.732	13.733	13.744	13.747	13.801	13.745	13.741
5/11/17 0:00	13.732	13.745	13.736	13.746	13.811	13.742	13.741
5/11/17 2:00	13.738	13.732	13.752	13.749	13.801	13.751	13.745
5/11/17 4:00	13.750	13.754	13.761	13.766	13.819	13.751	13.760
5/11/17 6:00	13.765	13.774	13.755	13.778	13.837	13.744	13.773
5/11/17 8:00	13.748	13.719	13.740	13.748	13.787	13.728	13.747
5/11/17 10:00	13.765	13.754	13.762	13.774	13.825	13.750	13.769
5/11/17 12:00	13.777	13.783	13.760	13.786	13.844	13.749	13.782
5/11/17 14:00	13.788	13.766	13.784	13.789	13.832	13.771	13.788
5/11/17 16:00	13.782	13.772	13.777	13.789	13.840	13.767	13.785
5/11/17 18:00	13.766	13.764	13.740	13.767	13.824	13.729	13.761
5/11/17 20:00	13.775	13.749	13.767	13.770	13.818	13.761	13.770
5/11/17 22:00	13.791	13.783	13.790	13.800	13.849	13.784	13.794
5/12/17 0:00	13.797	13.805	13.784	13.808	13.868	13.780	13.802
5/12/17 2:00	13.796	13.778	13.796	13.800	13.846	13.788	13.797
5/12/17 4:00	13.798	13.792	13.797	13.807	13.857	13.789	13.802
5/12/17 6:00	13.798	13.805	13.785	13.808	13.868	13.778	13.803
5/12/17 8:00	13.801	13.782	13.800	13.803	13.852	13.790	13.801
5/12/17 10:00	13.802	13.793	13.800	13.808	13.858	13.793	13.803
5/12/17 12:00	13.803	13.805	13.785	13.807	13.868	13.781	13.802
5/12/17 14:00	13.788	13.767	13.784	13.786	13.832	13.786	13.783
5/12/17 16:00	13.776	13.761	13.771	13.778	13.830	13.773	13.771
5/12/17 18:00	13.763	13.760	13.746	13.763	13.822	13.754	13.759
5/12/17 20:00	13.753	13.731	13.751	13.752	13.797	13.754	13.749
5/12/17 22:00	13.752	13.748	13.757	13.764	13.815	13.760	13.758
5/13/17 0:00	13.752	13.764	13.749	13.767	13.825	13.759	13.762
5/13/17 2:00	13.744	13.731	13.751	13.752	13.801	13.754	13.748
5/13/17 4:00	13.736	13.734	13.744	13.750	13.801	13.747	13.745
5/13/17 6:00	13.728	13.739	13.726	13.742	13.800	13.734	13.737
5/13/17 8:00	13.725	13.713	13.732	13.733	13.780	13.734	13.730

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/13/17 10:00	13.722	13.715	13.726	13.730	13.781	13.726	13.726
5/13/17 12:00	13.710	13.715	13.701	13.717	13.777	13.706	13.712
5/13/17 14:00	13.681	13.661	13.680	13.682	13.729	13.680	13.679
5/13/17 16:00	13.664	13.650	13.661	13.666	13.720	13.659	13.659
5/13/17 18:00	13.649	13.646	13.636	13.650	13.709	13.640	13.645
5/13/17 20:00	13.631	13.618	13.637	13.638	13.683	13.637	13.634
5/13/17 22:00	13.626	13.625	13.636	13.641	13.694	13.635	13.635
5/14/17 0:00	13.629	13.643	13.630	13.644	13.702	13.636	13.639
5/14/17 2:00	13.616	13.608	13.628	13.629	13.676	13.628	13.625
5/14/17 4:00	13.605	13.606	13.617	13.622	13.672	13.616	13.615
5/14/17 6:00	13.604	13.615	13.606	13.620	13.677	13.610	13.614
5/14/17 8:00	13.610	13.599	13.619	13.619	13.667	13.618	13.616
5/14/17 10:00	13.613	13.607	13.620	13.624	13.674	13.617	13.618
5/14/17 12:00	13.634	13.636	13.627	13.640	13.701	13.629	13.636
5/14/17 14:00	13.636	13.618	13.637	13.638	13.684	13.633	13.633
5/14/17 16:00	13.645	13.626	13.639	13.642	13.693	13.634	13.636
5/14/17 18:00	13.648	13.638	13.632	13.643	13.703	13.632	13.637
5/14/17 20:00	13.644	13.628	13.648	13.647	13.694	13.645	13.643
5/14/17 22:00	13.643	13.644	13.658	13.659	13.712	13.653	13.654
5/15/17 0:00	13.645	13.661	13.653	13.664	13.723	13.654	13.658
5/15/17 2:00	13.639	13.634	13.655	13.653	13.704	13.650	13.649
5/15/17 4:00	13.634	13.636	13.649	13.653	13.704	13.645	13.646
5/15/17 6:00	13.631	13.646	13.639	13.650	13.707	13.639	13.644
5/15/17 8:00	13.636	13.629	13.650	13.648	13.698	13.646	13.645
5/15/17 10:00	13.639	13.638	13.649	13.651	13.703	13.644	13.645
5/15/17 12:00	13.644	13.649	13.644	13.653	13.715	13.641	13.648
5/15/17 14:00	13.629	13.611	13.630	13.629	13.678	13.624	13.625
5/15/17 16:00	13.615	13.597	13.612	13.613	13.664	13.604	13.606
5/15/17 18:00	13.594	13.591	13.587	13.595	13.655	13.583	13.589
5/15/17 20:00	13.580	13.571	13.591	13.588	13.638	13.584	13.584
5/15/17 22:00	13.622	13.624	13.638	13.640	13.693	13.632	13.633
5/16/17 0:00	13.601	13.622	13.616	13.625	13.683	13.613	13.618
5/16/17 2:00	13.574	13.573	13.593	13.590	13.639	13.586	13.586
5/16/17 4:00	13.569	13.576	13.590	13.590	13.644	13.583	13.584
5/16/17 6:00	13.546	13.565	13.561	13.569	13.627	13.558	13.563
5/16/17 8:00	13.553	13.553	13.572	13.570	13.621	13.565	13.565
5/16/17 10:00	13.555	13.555	13.569	13.571	13.623	13.562	13.564
5/16/17 12:00	13.557	13.566	13.562	13.569	13.627	13.557	13.562
5/16/17 14:00	13.552	13.538	13.559	13.556	13.608	13.550	13.551
5/16/17 16:00	13.528	13.521	13.536	13.535	13.589	13.527	13.529
5/16/17 18:00	13.570	13.588	13.584	13.591	13.651	13.579	13.584
5/16/17 20:00	13.499	13.498	13.517	13.517	13.564	13.516	13.512
5/16/17 22:00	13.483	13.488	13.502	13.505	13.553	13.500	13.498
5/17/17 0:00	13.504	13.523	13.516	13.529	13.585	13.519	13.520
5/17/17 2:00	13.509	13.415	13.452	13.468	13.483	13.451	13.472
5/17/17 4:00	13.483	13.232	13.256	13.292	13.302	13.251	13.298
5/17/17 6:00	13.453	13.367	13.298	13.351	13.424	13.288	13.351

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/17/17 8:00	13.448	13.014	13.099	13.077	13.081	13.151	13.091
5/17/17 10:00	13.455	13.014	13.051	13.025	13.081	13.042	13.030
5/17/17 12:00	13.445	13.040	12.962	12.985	13.096	12.954	12.990
5/17/17 14:00	13.485	13.173	13.210	13.130	13.243	13.208	13.141
5/17/17 16:00	13.507	13.344	13.322	13.284	13.411	13.317	13.285
5/17/17 18:00	13.536	13.440	13.351	13.361	13.493	13.357	13.362
5/17/17 20:00	13.575	13.449	13.459	13.394	13.513	13.472	13.400
5/17/17 22:00	13.601	13.536	13.518	13.481	13.599	13.535	13.480
5/18/17 0:00	13.626	13.587	13.522	13.523	13.646	13.548	13.522
5/18/17 2:00	13.635	13.556	13.566	13.510	13.620	13.578	13.515
5/18/17 4:00	13.639	13.592	13.580	13.549	13.656	13.583	13.548
5/18/17 6:00	13.651	13.629	13.569	13.573	13.685	13.576	13.570
5/18/17 8:00	13.670	13.603	13.613	13.566	13.669	13.614	13.570
5/18/17 10:00	13.681	13.642	13.633	13.608	13.711	13.632	13.605
5/18/17 12:00	13.681	13.663	13.611	13.616	13.721	13.614	13.614
5/18/17 14:00	13.674	13.619	13.629	13.590	13.686	13.629	13.594
5/18/17 16:00	13.654	13.621	13.613	13.593	13.687	13.617	13.592
5/18/17 18:00	13.639	13.624	13.580	13.584	13.681	13.601	13.583
5/18/17 20:00	13.683	13.465	13.476	13.425	13.524	13.469	13.433
5/18/17 22:00	13.663	13.326	13.326	13.269	13.390	13.319	13.273
5/19/17 0:00	13.681	13.511	13.401	13.412	13.564	13.405	13.414
5/19/17 2:00	13.694	13.502	13.515	13.431	13.567	13.519	13.442
5/19/17 4:00	13.700	13.593	13.570	13.526	13.657	13.569	13.526
5/19/17 6:00	13.719	13.654	13.567	13.572	13.710	13.566	13.571
5/19/17 8:00	13.707	13.597	13.600	13.531	13.660	13.597	13.537
5/19/17 10:00	13.727	13.659	13.640	13.605	13.728	13.636	13.603
5/19/17 12:00	13.709	13.666	13.592	13.595	13.723	13.591	13.594
5/19/17 14:00	13.717	13.442	13.458	13.398	13.494	13.458	13.400
5/19/17 16:00	13.701	13.438	13.414	13.370	13.500	13.420	13.369
5/19/17 18:00	13.698	13.457	13.336	13.339	13.505	13.343	13.340
5/19/17 20:00	13.694	13.447	13.466	13.361	13.512	13.481	13.372
5/19/17 22:00	13.703	13.535	13.514	13.451	13.599	13.581	13.451
5/20/17 0:00	13.703	13.572	13.464	13.466	13.625	13.488	13.465
5/20/17 2:00	13.699	13.254	13.308	13.146	13.316	13.560	13.156
5/20/17 4:00	13.690	13.459	13.452	13.364	13.527	13.656	13.362
5/20/17 6:00	13.688	13.562	13.461	13.443	13.617	13.653	13.442
5/20/17 8:00	13.702	13.537	13.566	13.448	13.602	13.687	13.455
5/20/17 10:00	13.713	13.626	13.612	13.543	13.695	13.705	13.539
5/20/17 12:00	13.718	13.667	13.589	13.572	13.724	13.705	13.570
5/20/17 14:00	13.723	13.627	13.647	13.556	13.692	13.723	13.560
5/20/17 16:00	13.731	13.680	13.671	13.616	13.748	13.735	13.613
5/20/17 18:00	13.743	13.718	13.658	13.646	13.774	13.742	13.643
5/20/17 20:00	13.751	13.681	13.701	13.630	13.751	13.756	13.633
5/20/17 22:00	13.769	13.730	13.726	13.681	13.797	13.775	13.678
5/21/17 0:00	13.784	13.767	13.717	13.706	13.828	13.786	13.703
5/21/17 2:00	13.786	13.730	13.747	13.685	13.796	13.793	13.687
5/21/17 4:00	13.777	13.745	13.742	13.700	13.811	13.784	13.697

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/21/17 6:00	13.787	13.775	13.729	13.720	13.835	13.790	13.716
5/21/17 8:00	13.805	13.751	13.771	13.711	13.818	13.812	13.714
5/21/17 10:00	13.821	13.787	13.785	13.747	13.857	13.825	13.745
5/21/17 12:00	13.823	13.810	13.765	13.761	13.869	13.821	13.757
5/21/17 14:00	13.808	13.756	13.776	13.726	13.822	13.810	13.728
5/21/17 16:00	13.795	13.760	13.760	13.730	13.828	13.793	13.726
5/21/17 18:00	13.784	13.769	13.730	13.728	13.826	13.776	13.724
5/21/17 20:00	13.788	13.739	13.759	13.716	13.807	13.789	13.718
5/21/17 22:00	13.793	13.768	13.772	13.742	13.836	13.801	13.741
5/22/17 0:00	13.791	13.791	13.754	13.751	13.846	13.797	13.747
5/22/17 2:00	13.800	13.761	13.780	13.738	13.828	13.808	13.739
5/22/17 4:00	13.787	13.766	13.765	13.738	13.831	13.790	13.735
5/22/17 6:00	13.767	13.764	13.726	13.723	13.826	13.764	13.720
5/22/17 8:00	13.764	13.718	13.740	13.694	13.788	13.763	13.697
5/22/17 10:00	13.768	13.742	13.744	13.716	13.811	13.769	13.714
5/22/17 12:00	13.759	13.755	13.715	13.714	13.812	13.755	13.710
5/22/17 14:00	13.735	13.693	13.714	13.672	13.760	13.740	13.674
5/22/17 16:00	13.713	13.684	13.687	13.662	13.753	13.714	13.659
5/22/17 18:00	13.698	13.691	13.657	13.657	13.750	13.697	13.653
5/22/17 20:00	13.707	13.666	13.687	13.649	13.736	13.712	13.651
5/22/17 22:00	13.741	13.713	13.709	13.689	13.781	13.742	13.687
5/23/17 0:00	13.761	13.755	13.714	13.718	13.814	13.757	13.715
5/23/17 2:00	13.750	13.708	13.727	13.688	13.778	13.757	13.691
5/23/17 4:00	13.762	13.738	13.738	13.715	13.806	13.767	13.713
5/23/17 6:00	13.753	13.752	13.713	13.714	13.809	13.755	13.711
5/23/17 8:00	13.755	13.715	13.735	13.695	13.783	13.762	13.698
5/23/17 10:00	13.749	13.726	13.726	13.703	13.791	13.754	13.700
5/23/17 12:00	13.740	13.735	13.697	13.700	13.795	13.738	13.696
5/23/17 14:00	13.733	13.694	13.714	13.677	13.761	13.742	13.679
5/23/17 16:00	13.728	13.704	13.708	13.687	13.771	13.736	13.683
5/23/17 18:00	13.726	13.725	13.689	13.692	13.784	13.730	13.688
5/23/17 20:00	13.719	13.683	13.705	13.668	13.749	13.730	13.670
5/23/17 22:00	13.724	13.705	13.707	13.687	13.772	13.734	13.683
5/24/17 0:00	13.719	13.721	13.688	13.689	13.780	13.728	13.686
5/24/17 2:00	13.707	13.673	13.695	13.658	13.743	13.719	13.660
5/24/17 4:00	13.692	13.675	13.679	13.658	13.742	13.704	13.655
5/24/17 6:00	13.685	13.688	13.655	13.656	13.746	13.693	13.652
5/24/17 8:00	13.681	13.648	13.669	13.633	13.716	13.692	13.634
5/24/17 10:00	13.675	13.654	13.660	13.638	13.721	13.683	13.635
5/24/17 12:00	13.657	13.655	13.623	13.624	13.717	13.660	13.622
5/24/17 14:00	13.636	13.602	13.623	13.590	13.670	13.644	13.591
5/24/17 16:00	13.621	13.598	13.603	13.584	13.665	13.624	13.580
5/24/17 18:00	13.603	13.595	13.565	13.567	13.656	13.598	13.563
5/24/17 20:00	13.583	13.549	13.568	13.536	13.615	13.588	13.538
5/24/17 22:00	13.579	13.563	13.568	13.549	13.632	13.588	13.547
5/25/17 0:00	13.571	13.575	13.546	13.547	13.635	13.577	13.544
5/25/17 2:00	13.566	13.538	13.560	13.529	13.604	13.577	13.529

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/25/17 4:00	13.552	13.537	13.543	13.524	13.605	13.563	13.522
5/25/17 6:00	13.549	13.554	13.526	13.526	13.613	13.555	13.523
5/25/17 8:00	13.543	13.518	13.538	13.505	13.585	13.555	13.506
5/25/17 10:00	13.549	13.528	13.535	13.515	13.597	13.553	13.513
5/25/17 12:00	13.524	13.525	13.498	13.499	13.584	13.526	13.495
5/25/17 14:00	13.513	13.482	13.502	13.472	13.549	13.515	13.472
5/25/17 16:00	13.520	13.491	13.497	13.479	13.558	13.512	13.477
5/25/17 18:00	13.527	13.515	13.489	13.489	13.576	13.513	13.486
5/25/17 20:00	13.549	13.520	13.542	13.512	13.588	13.555	13.514
5/25/17 22:00	13.613	13.598	13.603	13.586	13.669	13.610	13.584
5/26/17 0:00	13.552	13.556	13.526	13.531	13.617	13.549	13.528
5/26/17 2:00	13.587	13.558	13.580	13.551	13.626	13.591	13.553
5/26/17 4:00	13.597	13.581	13.588	13.572	13.651	13.604	13.569
5/26/17 6:00	13.624	13.630	13.600	13.603	13.689	13.622	13.600
5/26/17 8:00	13.661	13.631	13.653	13.624	13.702	13.667	13.626
5/26/17 10:00	13.679	13.660	13.667	13.650	13.728	13.682	13.649
5/26/17 12:00	13.692	13.692	13.665	13.668	13.752	13.691	13.666
5/26/17 14:00	13.690	13.659	13.679	13.654	13.728	13.693	13.654
5/26/17 16:00	13.689	13.663	13.671	13.657	13.730	13.686	13.654
5/26/17 18:00	13.683	13.677	13.650	13.656	13.737	13.676	13.651
5/26/17 20:00	13.673	13.642	13.665	13.640	13.711	13.677	13.642
5/26/17 22:00	13.678	13.666	13.675	13.661	13.733	13.689	13.659
5/27/17 0:00	13.681	13.690	13.666	13.671	13.751	13.691	13.666
5/27/17 2:00	13.689	13.667	13.689	13.665	13.733	13.701	13.665
5/27/17 4:00	13.718	13.405	13.423	13.371	13.472	13.675	13.375
5/27/17 6:00	13.674	13.484	13.370	13.377	13.537	13.594	13.379
5/27/17 8:00	13.665	13.447	13.481	13.375	13.512	13.620	13.387
5/27/17 10:00	13.696	13.573	13.556	13.502	13.639	13.658	13.503
5/27/17 12:00	13.707	13.635	13.547	13.547	13.687	13.663	13.546
5/27/17 14:00	13.712	13.598	13.618	13.536	13.666	13.698	13.544
5/27/17 16:00	13.711	13.649	13.639	13.597	13.714	13.704	13.596
5/27/17 18:00	13.719	13.693	13.636	13.634	13.752	13.711	13.631
5/27/17 20:00	13.731	13.669	13.689	13.633	13.736	13.735	13.637
5/27/17 22:00	13.751	13.713	13.711	13.680	13.780	13.755	13.678
5/28/17 0:00	13.754	13.744	13.695	13.695	13.803	13.754	13.693
5/28/17 2:00	13.754	13.703	13.724	13.675	13.769	13.761	13.679
5/28/17 4:00	13.751	13.722	13.721	13.692	13.788	13.757	13.690
5/28/17 6:00	13.744	13.737	13.695	13.695	13.795	13.745	13.692
5/28/17 8:00	13.756	13.707	13.729	13.684	13.775	13.762	13.687
5/28/17 10:00	13.771	13.738	13.741	13.715	13.807	13.771	13.712
5/28/17 12:00	13.780	13.769	13.730	13.732	13.828	13.769	13.729
5/28/17 14:00	13.775	13.729	13.749	13.713	13.793	13.770	13.714
5/28/17 16:00	13.764	13.730	13.734	13.714	13.799	13.755	13.711
5/28/17 18:00	13.757	13.752	13.719	13.721	13.810	13.751	13.717
5/28/17 20:00	13.748	13.709	13.730	13.698	13.779	13.751	13.699
5/28/17 22:00	13.745	13.725	13.730	13.711	13.792	13.751	13.708
5/29/17 0:00	13.752	13.755	13.724	13.725	13.816	13.755	13.722

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
5/29/17 2:00	13.756	13.724	13.746	13.713	13.791	13.764	13.714
5/29/17 4:00	13.769	13.752	13.758	13.737	13.818	13.777	13.735
5/29/17 6:00	13.773	13.776	13.745	13.746	13.837	13.776	13.743
5/29/17 8:00	13.780	13.748	13.769	13.737	13.815	13.788	13.738
5/29/17 10:00	13.793	13.770	13.775	13.756	13.839	13.794	13.754
5/29/17 12:00	13.803	13.798	13.768	13.769	13.859	13.795	13.768
5/29/17 14:00	13.792	13.756	13.775	13.745	13.821	13.790	13.747
5/29/17 16:00	13.790	13.763	13.769	13.752	13.833	13.784	13.750
5/29/17 18:00	13.780	13.773	13.746	13.747	13.832	13.769	13.744
5/29/17 20:00	13.768	13.734	13.754	13.727	13.802	13.768	13.727
5/29/17 22:00	13.777	13.763	13.770	13.754	13.830	13.785	13.751
5/30/17 0:00	13.789	13.797	13.771	13.773	13.858	13.794	13.769
5/30/17 2:00	13.787	13.765	13.786	13.758	13.833	13.799	13.758
5/30/17 4:00	13.786	13.774	13.781	13.764	13.840	13.795	13.762
5/30/17 6:00	13.786	13.794	13.769	13.770	13.856	13.793	13.767
5/30/17 8:00	13.787	13.762	13.785	13.756	13.830	13.796	13.757
5/30/17 10:00	13.793	13.775	13.783	13.768	13.846	13.796	13.764
5/30/17 12:00	13.793	13.793	13.766	13.766	13.852	13.787	13.762
5/30/17 14:00	13.782	13.751	13.773	13.743	13.817	13.782	13.744
5/30/17 16:00	13.776	13.751	13.758	13.740	13.818	13.768	13.738
5/30/17 18:00	13.767	13.760	13.738	13.737	13.821	13.756	13.733
5/30/17 20:00	13.755	13.721	13.744	13.718	13.791	13.754	13.719
5/30/17 22:00	13.755	13.745	13.754	13.737	13.814	13.764	13.734
5/31/17 0:00	13.764	13.775	13.751	13.752	13.835	13.770	13.748
5/31/17 2:00	13.766	13.745	13.769	13.742	13.814	13.778	13.742
5/31/17 4:00	13.763	13.755	13.763	13.747	13.820	13.773	13.744
5/31/17 6:00	13.767	13.777	13.755	13.755	13.839	13.774	13.752
5/31/17 8:00	13.778	13.757	13.781	13.754	13.824	13.788	13.754
5/31/17 10:00	13.773	13.763	13.770	13.756	13.832	13.780	13.752
5/31/17 12:00	13.780	13.785	13.764	13.764	13.846	13.780	13.760
5/31/17 14:00	13.775	13.747	13.771	13.745	13.814	13.775	13.747
5/31/17 16:00	13.771	13.755	13.764	13.751	13.824	13.770	13.747
5/31/17 18:00	13.759	13.758	13.739	13.742	13.818	13.752	13.737
5/31/17 20:00	13.752	13.731	13.756	13.736	13.802	13.760	13.735
5/31/17 22:00	13.753	13.748	13.758	13.746	13.816	13.763	13.742
6/1/17 0:00	13.765	13.777	13.759	13.761	13.836	13.771	13.756
6/1/17 2:00	13.738	13.722	13.746	13.725	13.790	13.749	13.724
6/1/17 4:00	13.756	13.750	13.761	13.751	13.817	13.766	13.746
6/1/17 6:00	13.742	13.755	13.735	13.739	13.817	13.748	13.735
6/1/17 8:00	13.757	13.739	13.763	13.742	13.808	13.766	13.743
6/1/17 10:00	13.769	13.760	13.770	13.758	13.828	13.774	13.754
6/1/17 12:00	13.763	13.766	13.749	13.753	13.828	13.759	13.747
6/1/17 14:00	13.749	13.723	13.747	13.728	13.790	13.748	13.727
6/1/17 16:00	13.735	13.710	13.722	13.711	13.779	13.724	13.708
6/1/17 18:00	13.722	13.716	13.701	13.703	13.777	13.710	13.699
6/1/17 20:00	13.711	13.687	13.713	13.695	13.758	13.713	13.694
6/1/17 22:00	13.712	13.706	13.720	13.709	13.775	13.722	13.706

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/2/17 0:00	13.722	13.735	13.721	13.724	13.794	13.730	13.720
6/2/17 2:00	13.724	13.709	13.734	13.718	13.779	13.736	13.716
6/2/17 4:00	13.727	13.724	13.736	13.727	13.790	13.738	13.722
6/2/17 6:00	13.736	13.751	13.737	13.739	13.813	13.746	13.735
6/2/17 8:00	13.751	13.733	13.758	13.741	13.802	13.760	13.740
6/2/17 10:00	13.754	13.743	13.757	13.747	13.808	13.757	13.743
6/2/17 12:00	13.756	13.757	13.744	13.746	13.819	13.750	13.742
6/2/17 14:00	13.745	13.719	13.745	13.728	13.787	13.744	13.727
6/2/17 16:00	13.739	13.717	13.729	13.723	13.786	13.731	13.718
6/2/17 18:00	13.726	13.721	13.709	13.714	13.783	13.716	13.708
6/2/17 20:00	13.718	13.697	13.722	13.708	13.764	13.721	13.706
6/2/17 22:00	13.732	13.729	13.744	13.736	13.798	13.744	13.731
6/3/17 0:00	13.747	13.762	13.752	13.755	13.823	13.758	13.751
6/3/17 2:00	13.745	13.735	13.761	13.746	13.806	13.760	13.745
6/3/17 4:00	13.737	13.737	13.751	13.744	13.805	13.751	13.739
6/3/17 6:00	13.745	13.761	13.750	13.753	13.821	13.757	13.749
6/3/17 8:00	13.765	13.750	13.776	13.762	13.820	13.775	13.760
6/3/17 10:00	13.772	13.763	13.778	13.770	13.830	13.778	13.765
6/3/17 12:00	13.771	13.776	13.766	13.770	13.839	13.770	13.764
6/3/17 14:00	13.761	13.735	13.761	13.749	13.805	13.758	13.746
6/3/17 16:00	13.748	13.734	13.749	13.742	13.799	13.747	13.737
6/3/17 18:00	13.736	13.736	13.729	13.731	13.798	13.731	13.726
6/3/17 20:00	13.734	13.721	13.747	13.733	13.789	13.744	13.731
6/3/17 22:00	13.739	13.738	13.754	13.746	13.807	13.751	13.741
6/4/17 0:00	13.746	13.764	13.756	13.759	13.825	13.759	13.753
6/4/17 2:00	13.742	13.735	13.761	13.748	13.806	13.758	13.745
6/4/17 4:00	13.731	13.732	13.749	13.741	13.800	13.746	13.735
6/4/17 6:00	13.730	13.748	13.740	13.742	13.808	13.743	13.737
6/4/17 8:00	13.733	13.723	13.749	13.736	13.793	13.746	13.733
6/4/17 10:00	13.741	13.731	13.747	13.740	13.798	13.745	13.734
6/4/17 12:00	13.738	13.740	13.735	13.735	13.804	13.735	13.730
6/4/17 14:00	13.724	13.705	13.730	13.719	13.774	13.726	13.715
6/4/17 16:00	13.711	13.695	13.711	13.703	13.760	13.707	13.698
6/4/17 18:00	13.700	13.703	13.698	13.699	13.765	13.697	13.693
6/4/17 20:00	13.700	13.679	13.706	13.693	13.748	13.699	13.689
6/4/17 22:00	13.691	13.692	13.708	13.701	13.761	13.703	13.695
6/5/17 0:00	13.697	13.715	13.711	13.710	13.778	13.711	13.706
6/5/17 2:00	13.698	13.696	13.720	13.708	13.761	13.715	13.704
6/5/17 4:00	13.696	13.699	13.716	13.708	13.767	13.712	13.703
6/5/17 6:00	13.702	13.721	13.716	13.717	13.781	13.716	13.711
6/5/17 8:00	13.715	13.709	13.734	13.722	13.779	13.728	13.719
6/5/17 10:00	13.728	13.720	13.737	13.729	13.788	13.732	13.723
6/5/17 12:00	13.729	13.732	13.727	13.727	13.791	13.726	13.721
6/5/17 14:00	13.720	13.702	13.728	13.716	13.772	13.722	13.711
6/5/17 16:00	13.714	13.698	13.715	13.706	13.764	13.708	13.700
6/5/17 18:00	13.702	13.706	13.704	13.703	13.770	13.701	13.697
6/5/17 20:00	13.708	13.697	13.721	13.708	13.764	13.714	13.705

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/5/17 22:00	13.711	13.711	13.728	13.720	13.781	13.722	13.714
6/6/17 0:00	13.720	13.737	13.733	13.733	13.799	13.732	13.727
6/6/17 2:00	13.723	13.721	13.746	13.733	13.789	13.739	13.729
6/6/17 4:00	13.726	13.730	13.748	13.740	13.799	13.742	13.733
6/6/17 6:00	13.736	13.757	13.754	13.753	13.818	13.752	13.746
6/6/17 8:00	13.756	13.751	13.777	13.764	13.822	13.770	13.760
6/6/17 10:00	13.769	13.767	13.786	13.776	13.835	13.779	13.771
6/6/17 12:00	13.772	13.785	13.782	13.780	13.845	13.779	13.774
6/6/17 14:00	13.770	13.760	13.784	13.772	13.829	13.777	13.768
6/6/17 16:00	13.766	13.764	13.782	13.772	13.831	13.773	13.767
6/6/17 18:00	13.753	13.773	13.771	13.770	13.837	13.765	13.762
6/6/17 20:00	13.761	13.760	13.785	13.772	13.829	13.776	13.769
6/6/17 22:00	13.770	13.775	13.794	13.785	13.843	13.787	13.779
6/7/17 0:00	13.792	13.813	13.811	13.809	13.875	13.807	13.804
6/7/17 2:00	13.788	13.788	13.813	13.799	13.856	13.805	13.797
6/7/17 4:00	13.790	13.795	13.813	13.804	13.864	13.806	13.799
6/7/17 6:00	13.793	13.814	13.812	13.811	13.876	13.809	13.805
6/7/17 8:00	13.800	13.800	13.826	13.813	13.871	13.817	13.808
6/7/17 10:00	13.810	13.809	13.827	13.818	13.877	13.819	13.812
6/7/17 12:00	13.806	13.815	13.814	13.812	13.876	13.810	13.806
6/7/17 14:00	13.799	13.788	13.813	13.800	13.859	13.804	13.795
6/7/17 16:00	13.795	13.782	13.801	13.792	13.850	13.793	13.785
6/7/17 18:00	13.780	13.781	13.781	13.779	13.847	13.776	13.772
6/7/17 20:00	13.762	13.759	13.782	13.770	13.827	13.773	13.765
6/7/17 22:00	13.770	13.776	13.793	13.785	13.842	13.785	13.778
6/8/17 0:00	13.768	13.790	13.789	13.787	13.853	13.785	13.780
6/8/17 2:00	13.765	13.770	13.792	13.781	13.837	13.784	13.776
6/8/17 4:00	13.758	13.766	13.784	13.775	13.832	13.776	13.769
6/8/17 6:00	13.756	13.779	13.778	13.776	13.841	13.773	13.770
6/8/17 8:00	13.759	13.760	13.784	13.772	13.827	13.775	13.767
6/8/17 10:00	13.758	13.756	13.773	13.765	13.825	13.765	13.759
6/8/17 12:00	13.754	13.762	13.761	13.759	13.824	13.756	13.752
6/8/17 14:00	13.741	13.730	13.754	13.742	13.802	13.745	13.737
6/8/17 16:00	13.733	13.722	13.739	13.731	13.789	13.730	13.724
6/8/17 18:00	13.711	13.715	13.716	13.713	13.777	13.710	13.706
6/8/17 20:00	13.703	13.696	13.719	13.706	13.765	13.710	13.702
6/8/17 22:00	13.699	13.705	13.723	13.714	13.772	13.715	13.707
6/9/17 0:00	13.702	13.724	13.724	13.721	13.787	13.718	13.713
6/9/17 2:00	13.688	13.694	13.717	13.704	13.763	13.707	13.700
6/9/17 4:00	13.681	13.691	13.708	13.699	13.757	13.699	13.693
6/9/17 6:00	13.682	13.706	13.704	13.702	13.768	13.699	13.695
6/9/17 8:00	13.688	13.690	13.714	13.701	13.758	13.704	13.696
6/9/17 10:00	13.690	13.691	13.709	13.700	13.759	13.699	13.694
6/9/17 12:00	13.677	13.689	13.689	13.686	13.751	13.683	13.679
6/9/17 14:00	13.661	13.651	13.674	13.662	13.718	13.664	13.658
6/9/17 16:00	13.651	13.638	13.655	13.646	13.706	13.646	13.640
6/9/17 18:00	13.631	13.630	13.631	13.627	13.691	13.624	13.621

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/9/17 20:00	13.614	13.608	13.630	13.619	13.678	13.620	13.614
6/9/17 22:00	13.602	13.607	13.625	13.616	13.675	13.616	13.610
6/10/17 0:00	13.610	13.630	13.631	13.628	13.695	13.624	13.621
6/10/17 2:00	13.597	13.602	13.624	13.614	13.671	13.614	13.607
6/10/17 4:00	13.586	13.594	13.611	13.604	13.660	13.602	13.597
6/10/17 6:00	13.580	13.602	13.603	13.600	13.666	13.596	13.593
6/10/17 8:00	13.585	13.588	13.610	13.598	13.655	13.600	13.593
6/10/17 10:00	13.582	13.584	13.599	13.592	13.653	13.591	13.584
6/10/17 12:00	13.587	13.596	13.597	13.593	13.658	13.589	13.586
6/10/17 14:00	13.588	13.575	13.597	13.586	13.642	13.585	13.580
6/10/17 16:00	13.586	13.570	13.586	13.578	13.637	13.576	13.571
6/10/17 18:00	13.579	13.573	13.573	13.571	13.634	13.566	13.563
6/10/17 20:00	13.566	13.553	13.574	13.562	13.623	13.564	13.558
6/10/17 22:00	13.565	13.568	13.584	13.576	13.634	13.574	13.569
6/11/17 0:00	13.582	13.598	13.600	13.595	13.664	13.592	13.590
6/11/17 2:00	13.579	13.582	13.603	13.594	13.651	13.592	13.586
6/11/17 4:00	13.565	13.573	13.590	13.580	13.639	13.579	13.575
6/11/17 6:00	13.566	13.588	13.589	13.585	13.650	13.581	13.578
6/11/17 8:00	13.573	13.574	13.596	13.585	13.644	13.585	13.580
6/11/17 10:00	13.583	13.584	13.600	13.592	13.653	13.590	13.584
6/11/17 12:00	13.591	13.599	13.601	13.596	13.661	13.592	13.589
6/11/17 14:00	13.597	13.587	13.607	13.597	13.653	13.596	13.591
6/11/17 16:00	13.604	13.589	13.606	13.596	13.658	13.595	13.590
6/11/17 18:00	13.596	13.593	13.595	13.590	13.655	13.586	13.584
6/11/17 20:00	13.599	13.591	13.610	13.600	13.660	13.600	13.595
6/11/17 22:00	13.616	13.620	13.637	13.628	13.687	13.625	13.622
6/12/17 0:00	13.625	13.643	13.645	13.640	13.704	13.636	13.634
6/12/17 2:00	13.631	13.637	13.656	13.646	13.704	13.645	13.640
6/12/17 4:00	13.629	13.639	13.655	13.647	13.704	13.644	13.640
6/12/17 6:00	13.629	13.651	13.653	13.650	13.716	13.645	13.643
6/12/17 8:00	13.647	13.648	13.668	13.657	13.716	13.657	13.652
6/12/17 10:00	13.656	13.656	13.672	13.664	13.726	13.662	13.658
6/12/17 12:00	13.655	13.665	13.667	13.662	13.727	13.658	13.656
6/12/17 14:00	13.636	13.630	13.649	13.638	13.697	13.638	13.633
6/12/17 16:00	13.632	13.617	13.635	13.625	13.685	13.623	13.619
6/12/17 18:00	13.621	13.613	13.616	13.612	13.675	13.607	13.605
6/12/17 20:00	13.604	13.595	13.614	13.604	13.666	13.603	13.598
6/12/17 22:00	13.607	13.611	13.627	13.619	13.678	13.616	13.612
6/13/17 0:00	13.614	13.632	13.635	13.630	13.694	13.625	13.624
6/13/17 2:00	13.622	13.628	13.647	13.636	13.697	13.636	13.632
6/13/17 4:00	13.610	13.621	13.637	13.628	13.686	13.626	13.622
6/13/17 6:00	13.616	13.635	13.639	13.633	13.700	13.629	13.628
6/13/17 8:00	13.615	13.619	13.637	13.627	13.687	13.627	13.622
6/13/17 10:00	13.611	13.611	13.626	13.618	13.676	13.616	13.612
6/13/17 12:00	13.599	13.609	13.610	13.606	13.671	13.601	13.599
6/13/17 14:00	13.593	13.588	13.605	13.595	13.654	13.593	13.589
6/13/17 16:00	13.583	13.570	13.585	13.577	13.636	13.573	13.569

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/13/17 18:00	13.560	13.560	13.561	13.557	13.622	13.552	13.551
6/13/17 20:00	13.562	13.570	13.588	13.579	13.636	13.575	13.573
6/13/17 22:00	13.583	13.591	13.607	13.599	13.659	13.596	13.593
6/14/17 0:00	13.615	13.638	13.639	13.636	13.699	13.630	13.629
6/14/17 2:00	13.611	13.621	13.640	13.630	13.690	13.628	13.625
6/14/17 4:00	13.609	13.620	13.637	13.629	13.687	13.625	13.622
6/14/17 6:00	13.640	13.664	13.666	13.662	13.724	13.656	13.655
6/14/17 8:00	13.677	13.683	13.700	13.691	13.751	13.690	13.686
6/14/17 10:00	13.691	13.695	13.711	13.703	13.761	13.700	13.697
6/14/17 12:00	13.703	13.713	13.716	13.711	13.777	13.706	13.705
6/14/17 14:00	13.700	13.699	13.717	13.708	13.765	13.706	13.701
6/14/17 16:00	13.703	13.695	13.711	13.703	13.764	13.700	13.697
6/14/17 18:00	13.697	13.698	13.700	13.695	13.760	13.690	13.689
6/14/17 20:00	13.694	13.689	13.705	13.697	13.755	13.694	13.692
6/14/17 22:00	13.685	13.696	13.711	13.703	13.763	13.700	13.696
6/15/17 0:00	13.690	13.713	13.715	13.710	13.774	13.706	13.704
6/15/17 2:00	13.684	13.697	13.716	13.705	13.766	13.704	13.699
6/15/17 4:00	13.678	13.693	13.708	13.701	13.759	13.697	13.694
6/15/17 6:00	13.694	13.720	13.723	13.719	13.781	13.713	13.712
6/15/17 8:00	13.713	13.722	13.739	13.730	13.789	13.727	13.724
6/15/17 10:00	13.716	13.717	13.733	13.726	13.784	13.722	13.719
6/15/17 12:00	13.709	13.716	13.718	13.714	13.779	13.708	13.707
6/15/17 14:00	13.696	13.687	13.704	13.694	13.754	13.693	13.689
6/15/17 16:00	13.673	13.670	13.685	13.678	13.739	13.673	13.671
6/15/17 18:00	13.667	13.669	13.671	13.668	13.731	13.661	13.660
6/15/17 20:00	13.652	13.654	13.671	13.662	13.718	13.659	13.656
6/15/17 22:00	13.664	13.673	13.689	13.681	13.741	13.678	13.675
6/16/17 0:00	13.677	13.705	13.707	13.703	13.765	13.697	13.695
6/16/17 2:00	13.663	13.676	13.694	13.685	13.745	13.683	13.679
6/16/17 4:00	13.671	13.684	13.701	13.693	13.752	13.690	13.686
6/16/17 6:00	13.668	13.693	13.696	13.691	13.754	13.686	13.685
6/16/17 8:00	13.661	13.672	13.689	13.679	13.739	13.678	13.674
6/16/17 10:00	13.660	13.663	13.678	13.671	13.728	13.666	13.663
6/16/17 12:00	13.648	13.655	13.659	13.654	13.719	13.648	13.647
6/16/17 14:00	13.629	13.622	13.639	13.630	13.689	13.627	13.624
6/16/17 16:00	13.615	13.607	13.622	13.616	13.672	13.611	13.608
6/16/17 18:00	13.596	13.596	13.597	13.593	13.657	13.587	13.586
6/16/17 20:00	13.573	13.564	13.581	13.572	13.630	13.569	13.566
6/16/17 22:00	13.556	13.565	13.580	13.573	13.633	13.569	13.566
6/17/17 0:00	13.581	13.604	13.607	13.603	13.665	13.597	13.596
6/17/17 2:00	13.585	13.597	13.613	13.603	13.666	13.602	13.598
6/17/17 4:00	13.582	13.597	13.612	13.605	13.663	13.601	13.598
6/17/17 6:00	13.591	13.614	13.619	13.613	13.677	13.608	13.607
6/17/17 8:00	13.600	13.610	13.627	13.618	13.678	13.616	13.613
6/17/17 10:00	13.615	13.623	13.638	13.631	13.688	13.626	13.624
6/17/17 12:00	13.625	13.633	13.637	13.632	13.697	13.626	13.626
6/17/17 14:00	13.622	13.618	13.634	13.626	13.686	13.622	13.621

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/17/17 16:00	13.622	13.616	13.631	13.624	13.681	13.619	13.618
6/17/17 18:00	13.643	13.647	13.650	13.646	13.711	13.640	13.641
6/17/17 20:00	13.666	13.674	13.692	13.681	13.741	13.679	13.678
6/17/17 22:00	13.667	13.682	13.698	13.690	13.750	13.686	13.683
6/18/17 0:00	13.701	13.726	13.729	13.725	13.788	13.718	13.718
6/18/17 2:00	13.709	13.723	13.740	13.731	13.792	13.728	13.725
6/18/17 4:00	13.735	13.755	13.768	13.762	13.819	13.754	13.753
6/18/17 6:00	13.744	13.768	13.772	13.767	13.829	13.760	13.761
6/18/17 8:00	13.754	13.766	13.782	13.774	13.834	13.770	13.767
6/18/17 10:00	13.765	13.773	13.788	13.782	13.839	13.776	13.775
6/18/17 12:00	13.759	13.776	13.779	13.774	13.839	13.768	13.767
6/18/17 14:00	13.741	13.746	13.763	13.755	13.814	13.752	13.749
6/18/17 16:00	13.735	13.734	13.749	13.742	13.798	13.737	13.734
6/18/17 18:00	13.731	13.738	13.741	13.737	13.800	13.730	13.730
6/18/17 20:00	13.718	13.718	13.734	13.726	13.785	13.722	13.720
6/18/17 22:00	13.715	13.728	13.743	13.736	13.793	13.731	13.729
6/19/17 0:00	13.731	13.754	13.758	13.755	13.818	13.747	13.747
6/19/17 2:00	13.742	13.756	13.772	13.763	13.821	13.760	13.757
6/19/17 4:00	13.754	13.770	13.784	13.777	13.836	13.772	13.770
6/19/17 6:00	13.757	13.780	13.783	13.779	13.843	13.773	13.773
6/19/17 8:00	13.762	13.777	13.792	13.784	13.845	13.780	13.778
6/19/17 10:00	13.778	13.789	13.804	13.796	13.855	13.791	13.789
6/19/17 12:00	13.791	13.803	13.807	13.803	13.864	13.796	13.795
6/19/17 14:00	13.785	13.788	13.803	13.795	13.855	13.791	13.789
6/19/17 16:00	13.785	13.779	13.794	13.787	13.844	13.782	13.780
6/19/17 18:00	13.777	13.785	13.788	13.784	13.848	13.778	13.777
6/19/17 20:00	13.777	13.776	13.791	13.783	13.842	13.779	13.777
6/19/17 22:00	13.767	13.783	13.798	13.790	13.847	13.786	13.784
6/20/17 0:00	13.768	13.794	13.798	13.794	13.857	13.787	13.787
6/20/17 2:00	13.766	13.783	13.798	13.790	13.849	13.787	13.785
6/20/17 4:00	13.764	13.781	13.797	13.790	13.849	13.784	13.783
6/20/17 6:00	13.767	13.793	13.797	13.794	13.855	13.787	13.787
6/20/17 8:00	13.777	13.789	13.803	13.795	13.856	13.792	13.789
6/20/17 10:00	13.772	13.777	13.792	13.784	13.842	13.780	13.777
6/20/17 12:00	13.761	13.769	13.773	13.768	13.829	13.762	13.762
6/20/17 14:00	13.746	13.739	13.754	13.745	13.807	13.742	13.740
6/20/17 16:00	13.730	13.713	13.727	13.722	13.778	13.715	13.714
6/20/17 18:00	13.703	13.703	13.707	13.703	13.768	13.696	13.696
6/20/17 20:00	13.689	13.705	13.720	13.713	13.771	13.707	13.706
6/20/17 22:00	13.693	13.705	13.722	13.714	13.770	13.708	13.707
6/21/17 0:00	13.695	13.720	13.724	13.720	13.782	13.713	13.713
6/21/17 2:00	13.691	13.707	13.722	13.713	13.771	13.710	13.707
6/21/17 4:00	13.698	13.710	13.727	13.719	13.781	13.715	13.714
6/21/17 6:00	13.660	13.685	13.690	13.685	13.747	13.678	13.678
6/21/17 8:00	13.669	13.678	13.692	13.685	13.740	13.680	13.677
6/21/17 10:00	13.672	13.678	13.693	13.686	13.744	13.680	13.680
6/21/17 12:00	13.672	13.681	13.685	13.681	13.742	13.673	13.673

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/21/17 14:00	13.652	13.648	13.664	13.655	13.715	13.651	13.649
6/21/17 16:00	13.643	13.630	13.643	13.637	13.694	13.632	13.630
6/21/17 18:00	13.625	13.617	13.622	13.617	13.681	13.610	13.610
6/21/17 20:00	13.610	13.606	13.620	13.612	13.672	13.609	13.607
6/21/17 22:00	13.613	13.622	13.636	13.630	13.685	13.623	13.623
6/22/17 0:00	13.642	13.669	13.671	13.668	13.730	13.658	13.660
6/22/17 2:00	13.628	13.643	13.657	13.650	13.706	13.645	13.643
6/22/17 4:00	13.610	13.623	13.638	13.632	13.690	13.626	13.626
6/22/17 6:00	13.611	13.636	13.639	13.636	13.697	13.628	13.629
6/22/17 8:00	13.608	13.616	13.632	13.625	13.680	13.620	13.619
6/22/17 10:00	13.592	13.595	13.609	13.603	13.660	13.598	13.596
6/22/17 12:00	13.601	13.605	13.609	13.605	13.665	13.597	13.598
6/22/17 14:00	13.595	13.586	13.602	13.595	13.653	13.590	13.589
6/22/17 16:00	13.602	13.584	13.598	13.592	13.649	13.586	13.586
6/22/17 18:00	13.600	13.597	13.600	13.597	13.660	13.588	13.590
6/22/17 20:00	13.617	13.621	13.636	13.628	13.686	13.623	13.623
6/22/17 22:00	13.647	13.659	13.674	13.668	13.724	13.662	13.662
6/23/17 0:00	13.677	13.698	13.702	13.699	13.761	13.691	13.692
6/23/17 2:00	13.699	13.714	13.729	13.722	13.780	13.717	13.716
6/23/17 4:00	13.689	13.707	13.721	13.714	13.773	13.709	13.708
6/23/17 6:00	13.737	13.767	13.770	13.768	13.826	13.758	13.759
6/23/17 8:00	13.750	13.768	13.782	13.775	13.831	13.769	13.769
6/23/17 10:00	13.809	13.825	13.839	13.834	13.891	13.827	13.827
6/23/17 12:00	13.809	13.829	13.833	13.830	13.888	13.821	13.821
6/23/17 14:00	13.800	13.810	13.825	13.818	13.877	13.813	13.812
6/23/17 16:00	13.793	13.796	13.810	13.804	13.860	13.798	13.797
6/23/17 18:00	13.787	13.796	13.800	13.798	13.855	13.789	13.790
6/23/17 20:00	13.791	13.798	13.812	13.804	13.863	13.799	13.800
6/23/17 22:00	13.804	13.821	13.835	13.829	13.885	13.823	13.823
6/24/17 0:00	13.830	13.856	13.860	13.857	13.920	13.848	13.850
6/24/17 2:00	13.836	13.856	13.870	13.862	13.921	13.857	13.856
6/24/17 4:00	13.839	13.858	13.872	13.866	13.922	13.860	13.859
6/24/17 6:00	13.841	13.869	13.874	13.870	13.932	13.862	13.863
6/24/17 8:00	13.861	13.876	13.891	13.884	13.941	13.878	13.877
6/24/17 10:00	13.882	13.891	13.906	13.900	13.957	13.893	13.892
6/24/17 12:00	13.887	13.905	13.909	13.905	13.967	13.898	13.899
6/24/17 14:00	13.882	13.890	13.904	13.897	13.953	13.892	13.891
6/24/17 16:00	13.865	13.874	13.889	13.884	13.940	13.876	13.876
6/24/17 18:00	13.848	13.870	13.873	13.870	13.929	13.861	13.863
6/24/17 20:00	13.846	13.860	13.875	13.867	13.927	13.862	13.861
6/24/17 22:00	13.854	13.868	13.884	13.877	13.933	13.871	13.871
6/25/17 0:00	13.872	13.897	13.903	13.899	13.962	13.892	13.893
6/25/17 2:00	13.870	13.890	13.905	13.897	13.956	13.892	13.891
6/25/17 4:00	13.870	13.886	13.903	13.895	13.952	13.890	13.890
6/25/17 6:00	13.894	13.922	13.926	13.921	13.983	13.914	13.915
6/25/17 8:00	13.905	13.922	13.936	13.929	13.986	13.924	13.923
6/25/17 10:00	13.907	13.922	13.936	13.931	13.989	13.924	13.924

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/25/17 12:00	13.915	13.940	13.943	13.941	14.001	13.932	13.933
6/25/17 14:00	13.912	13.928	13.942	13.934	13.990	13.929	13.929
6/25/17 16:00	13.894	13.903	13.918	13.913	13.968	13.906	13.905
6/25/17 18:00	13.875	13.895	13.899	13.895	13.955	13.888	13.888
6/25/17 20:00	13.864	13.874	13.889	13.882	13.941	13.876	13.876
6/25/17 22:00	13.860	13.878	13.893	13.888	13.942	13.880	13.880
6/26/17 0:00	13.865	13.893	13.896	13.893	13.952	13.885	13.886
6/26/17 2:00	13.857	13.877	13.890	13.885	13.942	13.879	13.878
6/26/17 4:00	13.850	13.870	13.884	13.879	13.932	13.871	13.871
6/26/17 6:00	13.844	13.871	13.875	13.873	13.933	13.864	13.865
6/26/17 8:00	13.850	13.867	13.882	13.875	13.931	13.868	13.868
6/26/17 10:00	13.841	13.853	13.868	13.861	13.920	13.856	13.856
6/26/17 12:00	13.831	13.845	13.850	13.846	13.906	13.838	13.840
6/26/17 14:00	13.814	13.815	13.830	13.823	13.878	13.817	13.817
6/26/17 16:00	13.798	13.799	13.813	13.808	13.864	13.801	13.801
6/26/17 18:00	13.792	13.801	13.805	13.802	13.861	13.793	13.795
6/26/17 20:00	13.787	13.798	13.812	13.805	13.864	13.799	13.799
6/26/17 22:00	13.788	13.804	13.818	13.813	13.868	13.806	13.806
6/27/17 0:00	13.803	13.829	13.833	13.830	13.887	13.821	13.823
6/27/17 2:00	13.797	13.816	13.830	13.824	13.882	13.818	13.818
6/27/17 4:00	13.780	13.797	13.811	13.807	13.860	13.800	13.799
6/27/17 6:00	13.769	13.797	13.801	13.798	13.859	13.789	13.791
6/27/17 8:00	13.754	13.773	13.786	13.781	13.836	13.774	13.774
6/27/17 10:00	13.740	13.754	13.768	13.764	13.819	13.755	13.755
6/27/17 12:00	13.719	13.736	13.742	13.738	13.797	13.729	13.730
6/27/17 14:00	13.695	13.695	13.710	13.703	13.759	13.697	13.697
6/27/17 16:00	13.663	13.655	13.669	13.663	13.720	13.656	13.656
6/27/17 18:00	13.639	13.632	13.636	13.633	13.692	13.624	13.627
6/27/17 20:00	13.604	13.609	13.624	13.617	13.677	13.611	13.611
6/27/17 22:00	13.601	13.612	13.626	13.622	13.676	13.614	13.614
6/28/17 0:00	13.623	13.641	13.645	13.643	13.701	13.634	13.635
6/28/17 2:00	13.640	13.660	13.672	13.667	13.725	13.660	13.660
6/28/17 4:00	13.632	13.650	13.664	13.659	13.711	13.650	13.650
6/28/17 6:00	13.603	13.628	13.632	13.629	13.690	13.620	13.622
6/28/17 8:00	13.624	13.638	13.651	13.646	13.702	13.639	13.638
6/28/17 10:00	13.635	13.642	13.657	13.651	13.704	13.644	13.645
6/28/17 12:00	13.633	13.645	13.649	13.648	13.707	13.638	13.640
6/28/17 14:00	13.634	13.634	13.646	13.640	13.696	13.634	13.634
6/28/17 16:00	13.638	13.625	13.640	13.634	13.691	13.626	13.627
6/28/17 18:00	13.631	13.622	13.626	13.624	13.682	13.614	13.616
6/28/17 20:00	13.614	13.622	13.635	13.628	13.688	13.622	13.623
6/28/17 22:00	13.616	13.629	13.643	13.638	13.698	13.630	13.631
6/29/17 0:00	13.620	13.643	13.647	13.644	13.702	13.636	13.637
6/29/17 2:00	13.627	13.642	13.656	13.650	13.707	13.643	13.644
6/29/17 4:00	13.616	13.632	13.646	13.641	13.695	13.634	13.634
6/29/17 6:00	13.686	13.715	13.719	13.718	13.776	13.707	13.709
6/29/17 8:00	13.643	13.662	13.676	13.670	13.727	13.663	13.664

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
6/29/17 10:00	13.662	13.673	13.688	13.683	13.737	13.674	13.676
6/29/17 12:00	13.676	13.687	13.691	13.689	13.750	13.679	13.683
6/29/17 14:00	13.677	13.679	13.694	13.688	13.743	13.681	13.682
6/29/17 16:00	13.678	13.676	13.689	13.686	13.742	13.678	13.678
6/29/17 18:00	13.677	13.677	13.679	13.677	13.737	13.668	13.671
6/29/17 20:00	13.666	13.676	13.690	13.684	13.739	13.677	13.678
6/29/17 22:00	13.712	13.726	13.740	13.735	13.792	13.727	13.729
6/30/17 0:00	13.705	13.732	13.734	13.734	13.791	13.721	13.727
6/30/17 2:00	13.714	13.726	13.743	13.736	13.794	13.729	13.732
6/30/17 4:00	13.716	13.733	13.747	13.744	13.797	13.734	13.736
6/30/17 6:00	13.745	13.772	13.774	13.773	13.831	13.761	13.767
6/30/17 8:00	13.779	13.796	13.810	13.806	13.860	13.798	13.800
6/30/17 10:00	13.765	13.779	13.793	13.790	13.844	13.781	13.783
6/30/17 12:00	13.791	13.803	13.808	13.806	13.870	13.796	13.802
6/30/17 14:00	13.792	13.805	13.821	13.815	13.869	13.807	13.810
6/30/17 16:00	13.782	13.785	13.804	13.796	13.855	13.791	13.795
6/30/17 18:00	13.778	13.787	13.790	13.790	13.850	13.779	13.784
6/30/17 20:00	13.779	13.782	13.798	13.793	13.846	13.786	13.787
6/30/17 22:00	13.774	13.789	13.804	13.800	13.856	13.792	13.794
7/1/17 0:00	13.792	13.820	13.823	13.822	13.880	13.812	13.815
7/1/17 2:00	13.786	13.803	13.818	13.813	13.869	13.806	13.807
7/1/17 4:00	13.777	13.796	13.809	13.807	13.860	13.798	13.799
7/1/17 6:00	13.790	13.818	13.821	13.819	13.877	13.809	13.813
7/1/17 8:00	13.804	13.818	13.834	13.828	13.882	13.820	13.822
7/1/17 10:00	13.812	13.824	13.838	13.835	13.889	13.826	13.827
7/1/17 12:00	13.806	13.822	13.824	13.823	13.883	13.812	13.817
7/1/17 14:00	13.788	13.792	13.807	13.801	13.856	13.795	13.795
7/1/17 16:00	13.777	13.772	13.786	13.782	13.835	13.774	13.776
7/1/17 18:00	13.766	13.767	13.770	13.768	13.827	13.759	13.762
7/1/17 20:00	13.758	13.758	13.772	13.766	13.820	13.760	13.760
7/1/17 22:00	13.743	13.756	13.771	13.767	13.823	13.759	13.760
7/2/17 0:00	13.755	13.778	13.782	13.781	13.840	13.772	13.774
7/2/17 2:00	13.752	13.768	13.784	13.778	13.835	13.771	13.772
7/2/17 4:00	13.749	13.763	13.778	13.774	13.829	13.766	13.768
7/2/17 6:00	13.748	13.776	13.778	13.780	13.834	13.768	13.769
7/2/17 8:00	13.762	13.774	13.790	13.784	13.842	13.778	13.780
7/2/17 10:00	13.770	13.774	13.789	13.784	13.839	13.777	13.778
7/2/17 12:00	13.771	13.781	13.786	13.783	13.845	13.774	13.777
7/2/17 14:00	13.765	13.765	13.779	13.774	13.829	13.768	13.768
7/2/17 16:00	13.761	13.754	13.768	13.764	13.817	13.756	13.757
7/2/17 18:00	13.742	13.737	13.741	13.739	13.798	13.729	13.732
7/2/17 20:00	13.745	13.745	13.760	13.754	13.808	13.747	13.748
7/2/17 22:00	13.741	13.752	13.767	13.762	13.819	13.754	13.757
7/3/17 0:00	13.799	13.829	13.830	13.831	13.887	13.816	13.822
7/3/17 2:00	13.770	13.608	13.660	13.678	13.677	13.645	13.676
7/3/17 4:00	13.743	13.672	13.681	13.703	13.744	13.661	13.697
7/3/17 6:00	13.722	13.713	13.673	13.705	13.769	13.661	13.698

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
7/3/17 8:00	13.738	13.696	13.720	13.711	13.767	13.706	13.710
7/3/17 10:00	13.763	13.740	13.745	13.750	13.809	13.732	13.743
7/3/17 12:00	13.771	13.770	13.743	13.761	13.831	13.738	13.755
7/3/17 14:00	13.769	13.733	13.753	13.746	13.801	13.743	13.742
7/3/17 16:00	13.759	13.737	13.746	13.745	13.801	13.750	13.739
7/3/17 18:00	13.731	13.732	13.713	13.725	13.791	13.725	13.718
7/3/17 20:00	13.740	13.708	13.729	13.720	13.774	13.732	13.718
7/3/17 22:00	13.730	13.725	13.734	13.732	13.792	13.739	13.728
7/4/17 0:00	13.734	13.748	13.731	13.742	13.806	13.742	13.736
7/4/17 2:00	13.735	13.723	13.743	13.734	13.787	13.746	13.732
7/4/17 4:00	13.731	13.728	13.738	13.737	13.794	13.741	13.732
7/4/17 6:00	13.732	13.746	13.730	13.740	13.805	13.740	13.735
7/4/17 8:00	13.748	13.736	13.756	13.746	13.804	13.758	13.746
7/4/17 10:00	13.769	13.758	13.767	13.766	13.823	13.769	13.761
7/4/17 12:00	13.767	13.771	13.756	13.765	13.832	13.763	13.760
7/4/17 14:00	13.766	13.742	13.762	13.755	13.808	13.761	13.751
7/4/17 16:00	13.764	13.742	13.752	13.751	13.808	13.752	13.746
7/4/17 18:00	13.763	13.753	13.739	13.748	13.814	13.745	13.742
7/4/17 20:00	13.751	13.737	13.756	13.750	13.804	13.746	13.747
7/4/17 22:00	13.764	13.761	13.772	13.772	13.828	13.765	13.767
7/5/17 0:00	13.783	13.798	13.784	13.794	13.860	13.788	13.789
7/5/17 2:00	13.784	13.777	13.798	13.790	13.843	13.795	13.787
7/5/17 4:00	13.778	13.779	13.790	13.788	13.848	13.790	13.783
7/5/17 6:00	13.787	13.804	13.792	13.799	13.865	13.797	13.794
7/5/17 8:00	13.802	13.792	13.812	13.805	13.861	13.810	13.802
7/5/17 10:00	13.814	13.806	13.815	13.814	13.873	13.815	13.809
7/5/17 12:00	13.821	13.825	13.812	13.820	13.885	13.816	13.814
7/5/17 14:00	13.813	13.792	13.813	13.804	13.859	13.809	13.801
7/5/17 16:00	13.811	13.788	13.800	13.798	13.852	13.798	13.793
7/5/17 18:00	13.803	13.794	13.783	13.790	13.851	13.786	13.784
7/5/17 20:00	13.800	13.772	13.792	13.784	13.838	13.789	13.780
7/5/17 22:00	13.785	13.784	13.797	13.794	13.849	13.795	13.789
7/6/17 0:00	13.789	13.809	13.798	13.805	13.870	13.802	13.799
7/6/17 2:00	13.796	13.794	13.815	13.805	13.861	13.811	13.803
7/6/17 4:00	13.820	13.822	13.835	13.832	13.887	13.833	13.828
7/6/17 6:00	13.800	13.822	13.813	13.819	13.883	13.815	13.813
7/6/17 8:00	13.805	13.798	13.819	13.811	13.865	13.815	13.807
7/6/17 10:00	13.803	13.797	13.809	13.807	13.865	13.806	13.801
7/6/17 12:00	13.802	13.804	13.795	13.801	13.866	13.794	13.794
7/6/17 14:00	13.798	13.775	13.795	13.788	13.845	13.790	13.784
7/6/17 16:00	13.794	13.767	13.779	13.777	13.833	13.774	13.771
7/6/17 18:00	13.779	13.765	13.757	13.762	13.825	13.756	13.756
7/6/17 20:00	13.765	13.752	13.771	13.764	13.819	13.766	13.760
7/6/17 22:00	13.773	13.773	13.787	13.784	13.840	13.782	13.779
7/7/17 0:00	13.782	13.803	13.796	13.801	13.866	13.795	13.795
7/7/17 2:00	13.783	13.783	13.803	13.796	13.849	13.797	13.791
7/7/17 4:00	13.789	13.793	13.806	13.804	13.856	13.800	13.798

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
7/7/17 6:00	13.785	13.803	13.798	13.802	13.865	13.795	13.795
7/7/17 8:00	13.812	13.808	13.830	13.822	13.875	13.824	13.819
7/7/17 10:00	13.830	13.829	13.843	13.840	13.897	13.836	13.834
7/7/17 12:00	13.845	13.856	13.850	13.853	13.915	13.845	13.848
7/7/17 14:00	13.835	13.823	13.844	13.837	13.887	13.836	13.833
7/7/17 16:00	13.835	13.823	13.837	13.834	13.889	13.829	13.829
7/7/17 18:00	13.822	13.823	13.820	13.823	13.882	13.815	13.817
7/7/17 20:00	13.819	13.809	13.830	13.823	13.876	13.821	13.819
7/7/17 22:00	13.804	13.811	13.827	13.823	13.876	13.818	13.817
7/8/17 0:00	13.808	13.830	13.828	13.830	13.893	13.822	13.824
7/8/17 2:00	13.799	13.802	13.824	13.817	13.870	13.816	13.813
7/8/17 4:00	13.815	13.825	13.841	13.836	13.888	13.832	13.831
7/8/17 6:00	13.808	13.833	13.829	13.832	13.894	13.824	13.826
7/8/17 8:00	13.805	13.806	13.826	13.819	13.870	13.817	13.815
7/8/17 10:00	13.810	13.808	13.824	13.820	13.876	13.815	13.815
7/8/17 12:00	13.813	13.820	13.818	13.819	13.880	13.811	13.814
7/8/17 14:00	13.806	13.795	13.815	13.808	13.857	13.804	13.803
7/8/17 16:00	13.797	13.782	13.797	13.793	13.848	13.787	13.787
7/8/17 18:00	13.781	13.774	13.774	13.773	13.833	13.765	13.767
7/8/17 20:00	13.769	13.753	13.774	13.766	13.821	13.763	13.762
7/8/17 22:00	13.759	13.764	13.781	13.776	13.829	13.771	13.771
7/9/17 0:00	13.767	13.788	13.788	13.789	13.852	13.780	13.782
7/9/17 2:00	13.766	13.771	13.792	13.785	13.838	13.781	13.780
7/9/17 4:00	13.761	13.769	13.786	13.782	13.834	13.776	13.776
7/9/17 6:00	13.753	13.776	13.776	13.776	13.837	13.768	13.770
7/9/17 8:00	13.753	13.754	13.774	13.767	13.819	13.764	13.763
7/9/17 10:00	13.756	13.756	13.772	13.767	13.824	13.762	13.762
7/9/17 12:00	13.751	13.756	13.757	13.757	13.817	13.747	13.750
7/9/17 14:00	13.736	13.723	13.742	13.736	13.787	13.731	13.731
7/9/17 16:00	13.730	13.712	13.727	13.723	13.777	13.716	13.717
7/9/17 18:00	13.714	13.705	13.706	13.704	13.764	13.696	13.698
7/9/17 20:00	13.694	13.677	13.696	13.690	13.743	13.685	13.684
7/9/17 22:00	13.690	13.696	13.712	13.707	13.760	13.701	13.701
7/10/17 0:00	13.691	13.712	13.713	13.713	13.772	13.705	13.707
7/10/17 2:00	13.686	13.694	13.713	13.706	13.760	13.702	13.701
7/10/17 4:00	13.683	13.691	13.708	13.703	13.757	13.696	13.698
7/10/17 6:00	13.685	13.710	13.712	13.710	13.773	13.702	13.704
7/10/17 8:00	13.696	13.700	13.718	13.711	13.764	13.707	13.706
7/10/17 10:00	13.710	13.709	13.725	13.721	13.771	13.714	13.715
7/10/17 12:00	13.707	13.710	13.713	13.710	13.772	13.702	13.704
7/10/17 14:00	13.700	13.686	13.704	13.696	13.749	13.691	13.692
7/10/17 16:00	13.704	13.682	13.697	13.692	13.748	13.686	13.686
7/10/17 18:00	13.698	13.684	13.687	13.685	13.745	13.676	13.679
7/10/17 20:00	13.678	13.666	13.684	13.678	13.729	13.672	13.672
7/10/17 22:00	13.671	13.680	13.695	13.691	13.745	13.684	13.685
7/11/17 0:00	13.679	13.700	13.704	13.701	13.760	13.692	13.695
7/11/17 2:00	13.676	13.688	13.704	13.698	13.752	13.692	13.692

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
7/11/17 4:00	13.672	13.687	13.701	13.697	13.750	13.689	13.690
7/11/17 6:00	13.662	13.688	13.690	13.688	13.750	13.679	13.682
7/11/17 8:00	13.664	13.672	13.690	13.683	13.736	13.677	13.677
7/11/17 10:00	13.663	13.668	13.684	13.678	13.730	13.671	13.672
7/11/17 12:00	13.671	13.675	13.678	13.677	13.737	13.667	13.670
7/11/17 14:00	13.664	13.652	13.669	13.663	13.717	13.656	13.657
7/11/17 16:00	13.658	13.634	13.650	13.645	13.700	13.637	13.638
7/11/17 18:00	13.645	13.631	13.634	13.631	13.692	13.622	13.625
7/11/17 20:00	13.631	13.621	13.638	13.631	13.685	13.625	13.627
7/11/17 22:00	13.632	13.636	13.651	13.647	13.702	13.639	13.641
7/12/17 0:00	13.647	13.664	13.668	13.665	13.723	13.656	13.658
7/12/17 2:00	13.658	13.663	13.680	13.672	13.731	13.667	13.669
7/12/17 4:00	13.667	13.673	13.690	13.684	13.739	13.677	13.679
7/12/17 6:00	13.681	13.705	13.709	13.706	13.764	13.696	13.699
7/12/17 8:00	13.680	13.692	13.709	13.702	13.757	13.695	13.697
7/12/17 10:00	13.687	13.700	13.713	13.711	13.760	13.700	13.701
7/12/17 12:00	13.704	13.719	13.722	13.720	13.780	13.709	13.713
7/12/17 14:00	13.721	13.725	13.740	13.734	13.787	13.727	13.729
7/12/17 16:00	13.729	13.721	13.736	13.730	13.787	13.723	13.725
7/12/17 18:00	13.718	13.731	13.735	13.733	13.792	13.723	13.726
7/12/17 20:00	13.718	13.726	13.742	13.735	13.788	13.728	13.730
7/12/17 22:00	13.740	13.750	13.766	13.760	13.815	13.752	13.755
7/13/17 0:00	13.738	13.760	13.765	13.762	13.821	13.752	13.756
7/13/17 2:00	13.789	13.803	13.819	13.813	13.869	13.806	13.808
7/13/17 4:00	13.776	13.792	13.807	13.801	13.856	13.794	13.796
7/13/17 6:00	13.774	13.799	13.803	13.801	13.858	13.790	13.795
7/13/17 8:00	13.791	13.806	13.822	13.815	13.870	13.808	13.810
7/13/17 10:00	13.810	13.822	13.837	13.832	13.885	13.824	13.826
7/13/17 12:00	13.827	13.850	13.852	13.851	13.911	13.840	13.844
7/13/17 14:00	13.827	13.836	13.852	13.846	13.900	13.839	13.841
7/13/17 16:00	13.828	13.835	13.850	13.846	13.901	13.837	13.840
7/13/17 18:00	13.797	13.815	13.819	13.818	13.875	13.807	13.811
7/13/17 20:00	13.806	13.807	13.824	13.816	13.870	13.810	13.812
7/13/17 22:00	13.817	13.829	13.844	13.839	13.895	13.830	13.834
7/14/17 0:00	13.819	13.845	13.847	13.845	13.905	13.835	13.840
7/14/17 2:00	13.818	13.834	13.849	13.843	13.899	13.835	13.837
7/14/17 4:00	13.815	13.829	13.845	13.839	13.893	13.831	13.834
7/14/17 6:00	13.815	13.838	13.843	13.841	13.898	13.829	13.834
7/14/17 8:00	13.827	13.839	13.855	13.849	13.903	13.841	13.843
7/14/17 10:00	13.842	13.849	13.864	13.860	13.912	13.851	13.853
7/14/17 12:00	13.849	13.864	13.867	13.866	13.926	13.855	13.858
7/14/17 14:00	13.838	13.843	13.858	13.852	13.906	13.845	13.847
7/14/17 16:00	13.828	13.827	13.845	13.839	13.894	13.831	13.833
7/14/17 18:00	13.820	13.825	13.828	13.827	13.885	13.817	13.820
7/14/17 20:00	13.819	13.816	13.832	13.826	13.879	13.819	13.821
7/14/17 22:00	13.812	13.825	13.841	13.835	13.889	13.828	13.829
7/15/17 0:00	13.823	13.846	13.851	13.848	13.906	13.839	13.841

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
7/15/17 2:00	13.825	13.839	13.854	13.848	13.905	13.842	13.844
7/15/17 4:00	13.819	13.832	13.849	13.845	13.898	13.836	13.838
7/15/17 6:00	13.823	13.848	13.852	13.849	13.906	13.840	13.843
7/15/17 8:00	13.832	13.841	13.857	13.851	13.907	13.844	13.846
7/15/17 10:00	13.843	13.845	13.861	13.855	13.908	13.848	13.849
7/15/17 12:00	13.844	13.850	13.853	13.851	13.908	13.841	13.845
7/15/17 14:00	13.832	13.829	13.844	13.839	13.892	13.831	13.833
7/15/17 16:00	13.817	13.808	13.823	13.820	13.870	13.811	13.812
7/15/17 18:00	13.801	13.810	13.815	13.813	13.872	13.802	13.806
7/15/17 20:00	13.788	13.796	13.812	13.806	13.859	13.799	13.801
7/15/17 22:00	13.785	13.798	13.813	13.808	13.863	13.800	13.803
7/16/17 0:00	13.793	13.818	13.823	13.820	13.879	13.811	13.814
7/16/17 2:00	13.782	13.798	13.814	13.808	13.861	13.801	13.803
7/16/17 4:00	13.783	13.797	13.814	13.808	13.862	13.800	13.803
7/16/17 6:00	13.788	13.815	13.819	13.817	13.874	13.807	13.811
7/16/17 8:00	13.794	13.806	13.821	13.815	13.871	13.808	13.810
7/16/17 10:00	13.807	13.810	13.825	13.821	13.873	13.813	13.814
7/16/17 12:00	13.795	13.802	13.807	13.805	13.862	13.795	13.798
7/16/17 14:00	13.779	13.775	13.791	13.785	13.841	13.778	13.779
7/16/17 16:00	13.772	13.762	13.778	13.773	13.824	13.764	13.766
7/16/17 18:00	13.755	13.754	13.760	13.757	13.830	13.747	13.750
7/16/17 20:00	13.735	13.738	13.752	13.747	13.802	13.740	13.741
7/16/17 22:00	13.737	13.750	13.765	13.760	13.811	13.751	13.754
7/17/17 0:00	13.743	13.767	13.771	13.769	13.827	13.759	13.762
7/17/17 2:00	13.743	13.759	13.774	13.768	13.822	13.761	13.763
7/17/17 4:00	13.736	13.752	13.768	13.763	13.818	13.755	13.757
7/17/17 6:00	13.733	13.760	13.766	13.762	13.820	13.753	13.756
7/17/17 8:00	13.740	13.754	13.768	13.762	13.815	13.755	13.756
7/17/17 10:00	13.750	13.755	13.770	13.766	13.819	13.757	13.758
7/17/17 12:00	13.747	13.754	13.759	13.757	13.813	13.747	13.750
7/17/17 14:00	13.728	13.724	13.738	13.733	13.789	13.726	13.727
7/17/17 16:00	13.719	13.707	13.722	13.718	13.771	13.709	13.712
7/17/17 18:00	13.700	13.703	13.709	13.706	13.764	13.696	13.700
7/17/17 20:00	13.729	13.726	13.747	13.737	13.799	13.733	13.739
7/17/17 22:00	13.711	13.708	13.726	13.731	13.771	13.708	13.724
7/18/17 0:00	13.734	13.740	13.727	13.748	13.800	13.708	13.743
7/18/17 2:00	13.725	13.711	13.739	13.737	13.775	13.725	13.733
7/18/17 4:00	13.720	13.721	13.735	13.736	13.788	13.721	13.732
7/18/17 6:00	13.728	13.745	13.736	13.746	13.804	13.723	13.741
7/18/17 8:00	13.736	13.729	13.752	13.748	13.794	13.739	13.745
7/18/17 10:00	13.739	13.735	13.749	13.750	13.800	13.737	13.744
7/18/17 12:00	13.737	13.742	13.735	13.743	13.801	13.724	13.737
7/18/17 14:00	13.733	13.714	13.736	13.731	13.780	13.727	13.727
7/18/17 16:00	13.740	13.715	13.730	13.729	13.779	13.723	13.724
7/18/17 18:00	13.741	13.726	13.721	13.728	13.782	13.718	13.721
7/18/17 20:00	13.725	13.709	13.731	13.726	13.774	13.723	13.722
7/18/17 22:00	13.736	13.739	13.755	13.754	13.802	13.747	13.748

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
7/19/17 0:00	13.741	13.758	13.755	13.760	13.819	13.752	13.754
7/19/17 2:00	13.756	13.755	13.776	13.770	13.819	13.768	13.767
7/19/17 4:00	13.753	13.759	13.773	13.772	13.820	13.766	13.767
7/19/17 6:00	13.754	13.774	13.772	13.776	13.833	13.767	13.770
7/19/17 8:00	13.764	13.761	13.783	13.777	13.824	13.774	13.773
7/19/17 10:00	13.767	13.763	13.778	13.777	13.828	13.770	13.771
7/19/17 12:00	13.763	13.767	13.763	13.769	13.824	13.758	13.762
7/19/17 14:00	13.756	13.735	13.757	13.752	13.798	13.748	13.748
7/19/17 16:00	13.754	13.730	13.746	13.743	13.793	13.736	13.738
7/19/17 18:00	13.740	13.731	13.730	13.732	13.788	13.722	13.726
7/19/17 20:00	13.717	13.700	13.721	13.716	13.764	13.710	13.711
7/19/17 22:00	13.724	13.728	13.745	13.742	13.792	13.735	13.737
7/20/17 0:00	13.736	13.756	13.757	13.758	13.812	13.749	13.752
7/20/17 2:00	13.740	13.743	13.766	13.759	13.807	13.754	13.755
7/20/17 4:00	13.736	13.744	13.761	13.758	13.806	13.751	13.752
7/20/17 6:00	13.747	13.767	13.769	13.769	13.830	13.760	13.764
7/20/17 8:00	13.754	13.755	13.777	13.770	13.820	13.764	13.765
7/20/17 10:00	13.757	13.756	13.773	13.771	13.824	13.762	13.764
7/20/17 12:00	13.764	13.766	13.767	13.769	13.829	13.758	13.762
7/20/17 14:00	13.748	13.732	13.752	13.747	13.795	13.740	13.742
7/20/17 16:00	13.742	13.718	13.735	13.732	13.785	13.723	13.726
7/20/17 18:00	13.715	13.711	13.715	13.714	13.773	13.704	13.707
7/20/17 20:00	13.703	13.690	13.710	13.704	13.756	13.698	13.699
7/20/17 22:00	13.692	13.698	13.715	13.711	13.765	13.703	13.706
7/21/17 0:00	13.699	13.719	13.722	13.721	13.779	13.711	13.716
7/21/17 2:00	13.696	13.702	13.721	13.715	13.769	13.709	13.711
7/21/17 4:00	13.689	13.699	13.716	13.712	13.765	13.705	13.706
7/21/17 6:00	13.684	13.705	13.710	13.708	13.765	13.699	13.703
7/21/17 8:00	13.697	13.699	13.717	13.712	13.765	13.705	13.707
7/21/17 10:00	13.692	13.690	13.707	13.703	13.754	13.695	13.698
7/21/17 12:00	13.694	13.697	13.702	13.700	13.759	13.689	13.693
7/21/17 14:00	13.687	13.673	13.691	13.687	13.737	13.678	13.681
7/21/17 16:00	13.679	13.656	13.673	13.668	13.723	13.660	13.662
7/21/17 18:00	13.675	13.657	13.662	13.660	13.719	13.650	13.654
7/21/17 20:00	13.656	13.641	13.658	13.653	13.704	13.644	13.647
7/21/17 22:00	13.654	13.663	13.680	13.676	13.732	13.667	13.670
7/22/17 0:00	13.661	13.682	13.686	13.685	13.742	13.675	13.678
7/22/17 2:00	13.666	13.679	13.696	13.689	13.745	13.682	13.685
7/22/17 4:00	13.665	13.678	13.695	13.691	13.743	13.682	13.685
7/22/17 6:00	13.668	13.691	13.697	13.694	13.751	13.684	13.688
7/22/17 8:00	13.686	13.694	13.710	13.706	13.759	13.698	13.700
7/22/17 10:00	13.709	13.710	13.727	13.723	13.774	13.714	13.717
7/22/17 12:00	13.724	13.730	13.735	13.733	13.793	13.722	13.727
7/22/17 14:00	13.717	13.714	13.729	13.724	13.776	13.716	13.718
7/22/17 16:00	13.714	13.711	13.728	13.724	13.778	13.715	13.718
7/22/17 18:00	13.712	13.728	13.733	13.732	13.790	13.721	13.725
7/22/17 20:00	13.731	13.741	13.756	13.750	13.802	13.743	13.745

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
7/22/17 22:00	13.737	13.750	13.767	13.762	13.816	13.753	13.756
7/23/17 0:00	13.722	13.744	13.750	13.747	13.804	13.737	13.742
7/23/17 2:00	13.734	13.749	13.766	13.760	13.815	13.752	13.755
7/23/17 4:00	13.738	13.753	13.769	13.765	13.817	13.756	13.760
7/23/17 6:00	13.741	13.766	13.771	13.769	13.825	13.758	13.763
7/23/17 8:00	13.754	13.768	13.785	13.779	13.832	13.771	13.774
7/23/17 10:00	13.768	13.774	13.790	13.786	13.836	13.776	13.779
7/23/17 12:00	13.773	13.783	13.789	13.787	13.844	13.775	13.779
7/23/17 14:00	13.763	13.762	13.777	13.772	13.824	13.763	13.766
7/23/17 16:00	13.760	13.751	13.766	13.763	13.816	13.753	13.757
7/23/17 18:00	13.753	13.750	13.756	13.754	13.811	13.743	13.747
7/23/17 20:00	13.734	13.736	13.751	13.746	13.798	13.739	13.741
7/23/17 22:00	13.740	13.755	13.770	13.766	13.819	13.757	13.760
7/24/17 0:00	13.750	13.776	13.782	13.778	13.834	13.769	13.772
7/24/17 2:00	13.748	13.767	13.782	13.778	13.832	13.769	13.771
7/24/17 4:00	13.743	13.760	13.776	13.772	13.823	13.763	13.766
7/24/17 6:00	13.747	13.775	13.780	13.776	13.832	13.766	13.771
7/24/17 8:00	13.758	13.773	13.789	13.784	13.836	13.776	13.778
7/24/17 10:00	13.763	13.772	13.787	13.783	13.832	13.773	13.777
7/24/17 12:00	13.757	13.767	13.772	13.771	13.828	13.760	13.763
7/24/17 14:00	13.745	13.743	13.758	13.753	13.805	13.744	13.747
7/24/17 16:00	13.740	13.727	13.742	13.738	13.788	13.729	13.732
7/24/17 18:00	13.726	13.721	13.728	13.724	13.781	13.714	13.718
7/24/17 20:00	13.715	13.715	13.729	13.724	13.775	13.715	13.718
7/24/17 22:00	13.720	13.732	13.747	13.744	13.795	13.734	13.737
7/25/17 0:00	13.742	13.764	13.772	13.768	13.825	13.758	13.762
7/25/17 2:00	13.737	13.754	13.767	13.762	13.817	13.754	13.757
7/25/17 4:00	13.735	13.750	13.764	13.760	13.813	13.752	13.754
7/25/17 6:00	13.745	13.769	13.775	13.772	13.827	13.762	13.766
7/25/17 8:00	13.754	13.767	13.781	13.778	13.831	13.768	13.771
7/25/17 10:00	13.761	13.767	13.783	13.778	13.827	13.768	13.771
7/25/17 12:00	13.760	13.767	13.774	13.771	13.828	13.760	13.764
7/25/17 14:00	13.747	13.744	13.757	13.754	13.806	13.744	13.747
7/25/17 16:00	13.743	13.730	13.743	13.741	13.790	13.731	13.734
7/25/17 18:00	13.721	13.723	13.729	13.727	13.784	13.716	13.720
7/25/17 20:00	13.706	13.709	13.723	13.718	13.770	13.709	13.712
7/25/17 22:00	13.704	13.714	13.729	13.726	13.778	13.716	13.720
7/26/17 0:00	13.711	13.732	13.738	13.736	13.792	13.725	13.729
7/26/17 2:00	13.715	13.728	13.741	13.736	13.789	13.728	13.731
7/26/17 4:00	13.711	13.725	13.740	13.737	13.789	13.726	13.731
7/26/17 6:00	13.705	13.726	13.729	13.730	13.785	13.716	13.724
7/26/17 8:00	13.704	13.715	13.733	13.729	13.779	13.720	13.724
7/26/17 10:00	13.710	13.720	13.736	13.734	13.783	13.722	13.728
7/26/17 12:00	13.718	13.734	13.736	13.737	13.792	13.723	13.732
7/26/17 14:00	13.739	13.737	13.755	13.751	13.800	13.741	13.745
7/26/17 16:00	13.739	13.739	13.754	13.753	13.800	13.742	13.746
7/26/17 18:00	13.745	13.759	13.762	13.763	13.820	13.751	13.756

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
7/26/17 20:00	13.752	13.761	13.778	13.775	13.823	13.767	13.769
7/26/17 22:00	13.760	13.771	13.786	13.785	13.832	13.775	13.779
7/27/17 0:00	13.767	13.789	13.792	13.793	13.850	13.783	13.788
7/27/17 2:00	13.769	13.781	13.798	13.794	13.842	13.787	13.789
7/27/17 4:00	13.769	13.782	13.798	13.797	13.846	13.787	13.790
7/27/17 6:00	13.780	13.803	13.805	13.806	13.860	13.795	13.801
7/27/17 8:00	13.789	13.801	13.818	13.814	13.860	13.806	13.809
7/27/17 10:00	13.804	13.813	13.829	13.827	13.876	13.817	13.820
7/27/17 12:00	13.805	13.819	13.822	13.824	13.877	13.812	13.817
7/27/17 14:00	13.793	13.793	13.811	13.807	13.858	13.799	13.802
7/27/17 16:00	13.784	13.780	13.796	13.795	13.842	13.785	13.788
7/27/17 18:00	13.773	13.779	13.783	13.783	13.841	13.772	13.778
7/27/17 20:00	13.768	13.771	13.788	13.783	13.833	13.776	13.778
7/27/17 22:00	13.766	13.782	13.797	13.795	13.842	13.785	13.788
7/28/17 0:00	13.767	13.794	13.798	13.798	13.853	13.787	13.790
7/28/17 2:00	13.765	13.781	13.798	13.794	13.842	13.785	13.788
7/28/17 4:00	13.763	13.779	13.795	13.792	13.844	13.783	13.786
7/28/17 6:00	13.767	13.793	13.798	13.798	13.853	13.787	13.791
7/28/17 8:00	13.779	13.792	13.809	13.805	13.853	13.797	13.800
7/28/17 10:00	13.787	13.794	13.811	13.808	13.857	13.798	13.802
7/28/17 12:00	13.793	13.806	13.810	13.810	13.865	13.799	13.804
7/28/17 14:00	13.782	13.781	13.799	13.795	13.847	13.786	13.789
7/28/17 16:00	13.776	13.772	13.788	13.786	13.834	13.776	13.780
7/28/17 18:00	13.766	13.773	13.777	13.776	13.829	13.765	13.769
7/28/17 20:00	13.752	13.761	13.778	13.773	13.824	13.765	13.768
7/28/17 22:00	13.758	13.773	13.789	13.786	13.834	13.776	13.780
7/29/17 0:00	13.760	13.784	13.789	13.788	13.845	13.778	13.782
7/29/17 2:00	13.766	13.780	13.795	13.790	13.842	13.783	13.787
7/29/17 4:00	13.782	13.795	13.812	13.810	13.860	13.798	13.804
7/29/17 6:00	13.779	13.804	13.808	13.808	13.863	13.795	13.802
7/29/17 8:00	13.794	13.809	13.826	13.821	13.870	13.812	13.815
7/29/17 10:00	13.800	13.810	13.827	13.824	13.874	13.813	13.818
7/29/17 12:00	13.803	13.818	13.823	13.822	13.877	13.810	13.816
7/29/17 14:00	13.800	13.806	13.821	13.818	13.870	13.809	13.812
7/29/17 16:00	13.794	13.798	13.813	13.811	13.860	13.801	13.805
7/29/17 18:00	13.791	13.804	13.809	13.809	13.861	13.797	13.802
7/29/17 20:00	13.786	13.792	13.808	13.804	13.855	13.796	13.799
7/29/17 22:00	13.804	13.818	13.834	13.831	13.879	13.821	13.824
7/30/17 0:00	13.812	13.837	13.842	13.839	13.897	13.829	13.835
7/30/17 2:00	13.814	13.829	13.844	13.841	13.891	13.832	13.836
7/30/17 4:00	13.813	13.829	13.844	13.842	13.890	13.832	13.837
7/30/17 6:00	13.819	13.843	13.850	13.848	13.904	13.837	13.842
7/30/17 8:00	13.840	13.856	13.872	13.867	13.917	13.859	13.862
7/30/17 10:00	13.845	13.859	13.876	13.873	13.924	13.863	13.867
7/30/17 12:00	13.849	13.871	13.876	13.874	13.930	13.863	13.868
7/30/17 14:00	13.850	13.860	13.876	13.871	13.924	13.862	13.866
7/30/17 16:00	13.839	13.850	13.866	13.863	13.912	13.853	13.857

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
7/30/17 18:00	13.822	13.840	13.845	13.844	13.898	13.832	13.838
7/30/17 20:00	13.816	13.829	13.845	13.841	13.893	13.832	13.835
7/30/17 22:00	13.826	13.842	13.858	13.854	13.903	13.845	13.848
7/31/17 0:00	13.823	13.848	13.853	13.852	13.910	13.842	13.846
7/31/17 2:00	13.823	13.839	13.856	13.851	13.903	13.843	13.846
7/31/17 4:00	13.821	13.836	13.852	13.849	13.898	13.840	13.844
7/31/17 6:00	13.823	13.848	13.854	13.852	13.908	13.841	13.846
7/31/17 8:00	13.826	13.844	13.859	13.854	13.906	13.846	13.849
7/31/17 10:00	13.839	13.857	13.873	13.870	13.916	13.859	13.863
7/31/17 12:00	13.845	13.867	13.872	13.871	13.928	13.859	13.866
7/31/17 14:00	13.836	13.847	13.862	13.858	13.907	13.849	13.852
7/31/17 16:00	13.827	13.833	13.849	13.846	13.896	13.835	13.839
7/31/17 18:00	13.816	13.836	13.841	13.841	13.894	13.829	13.834
7/31/17 20:00	13.807	13.819	13.835	13.831	13.884	13.822	13.826
7/31/17 22:00	13.813	13.828	13.845	13.841	13.891	13.832	13.836
8/1/17 0:00	13.823	13.848	13.854	13.852	13.908	13.842	13.847
8/1/17 2:00	13.817	13.837	13.851	13.848	13.899	13.839	13.843
8/1/17 4:00	13.812	13.829	13.844	13.842	13.891	13.832	13.837
8/1/17 6:00	13.812	13.839	13.845	13.844	13.900	13.832	13.837
8/1/17 8:00	13.820	13.838	13.853	13.848	13.900	13.841	13.843
8/1/17 10:00	13.826	13.841	13.857	13.854	13.901	13.844	13.847
8/1/17 12:00	13.832	13.850	13.856	13.856	13.910	13.844	13.848
8/1/17 14:00	13.823	13.832	13.846	13.842	13.892	13.833	13.836
8/1/17 16:00	13.818	13.827	13.833	13.831	13.888	13.821	13.825
8/1/17 18:00	13.814	13.816	13.830	13.826	13.877	13.817	13.821
8/1/17 20:00	13.808	13.810	13.828	13.825	13.871	13.815	13.820
8/1/17 22:00	13.811	13.837	13.841	13.840	13.896	13.829	13.834
8/2/17 0:00	13.825	13.845	13.859	13.855	13.904	13.846	13.849
8/2/17 2:00	13.811	13.825	13.844	13.841	13.889	13.831	13.836
8/2/17 4:00	13.815	13.842	13.848	13.847	13.901	13.835	13.840
8/2/17 6:00	13.816	13.835	13.849	13.845	13.900	13.836	13.840
8/2/17 8:00	13.825	13.838	13.856	13.854	13.901	13.844	13.848
8/2/17 10:00	13.831	13.849	13.855	13.853	13.907	13.842	13.848
8/2/17 12:00	13.827	13.834	13.847	13.844	13.896	13.835	13.838
8/2/17 14:00	13.808	13.808	13.826	13.823	13.870	13.813	13.817
8/2/17 16:00	13.799	13.807	13.813	13.813	13.867	13.801	13.805
8/2/17 18:00	13.771	13.781	13.794	13.791	13.840	13.781	13.785
8/2/17 20:00	13.766	13.775	13.793	13.792	13.835	13.781	13.784
8/2/17 22:00	13.778	13.802	13.809	13.807	13.863	13.795	13.801
8/3/17 0:00	13.789	13.806	13.819	13.816	13.865	13.807	13.811
8/3/17 2:00	13.787	13.803	13.820	13.819	13.865	13.807	13.812
8/3/17 4:00	13.791	13.818	13.824	13.823	13.877	13.811	13.816
8/3/17 6:00	13.805	13.824	13.838	13.833	13.888	13.825	13.829
8/3/17 8:00	13.822	13.837	13.855	13.853	13.901	13.843	13.847
8/3/17 10:00	13.832	13.855	13.861	13.860	13.913	13.849	13.854
8/3/17 12:00	13.842	13.856	13.869	13.866	13.919	13.856	13.860
8/3/17 14:00	13.836	13.844	13.862	13.860	13.906	13.849	13.854

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
8/3/17 16:00	13.822	13.845	13.852	13.849	13.907	13.838	13.843
8/3/17 18:00	13.814	13.826	13.839	13.836	13.887	13.826	13.831
8/3/17 20:00	13.812	13.822	13.840	13.839	13.884	13.827	13.833
8/3/17 22:00	13.836	13.862	13.869	13.866	13.923	13.855	13.861
8/4/17 0:00	13.845	13.867	13.880	13.876	13.927	13.867	13.871
8/4/17 2:00	13.845	13.861	13.880	13.878	13.927	13.866	13.871
8/4/17 4:00	13.847	13.876	13.882	13.881	13.934	13.869	13.874
8/4/17 6:00	13.840	13.863	13.876	13.872	13.925	13.863	13.866
8/4/17 8:00	13.841	13.857	13.875	13.873	13.922	13.863	13.867
8/4/17 10:00	13.850	13.874	13.880	13.879	13.932	13.867	13.873
8/4/17 12:00	13.839	13.853	13.866	13.863	13.915	13.853	13.857
8/4/17 14:00	13.816	13.824	13.842	13.842	13.897	13.829	13.834
8/4/17 16:00	13.795	13.807	13.813	13.812	13.868	13.801	13.805
8/4/17 18:00	13.770	13.783	13.795	13.792	13.844	13.783	13.786
8/4/17 20:00	13.753	13.764	13.782	13.780	13.825	13.769	13.774
8/4/17 22:00	13.749	13.776	13.781	13.781	13.835	13.769	13.774
8/5/17 0:00	13.744	13.764	13.777	13.774	13.824	13.764	13.769
8/5/17 2:00	13.736	13.753	13.771	13.768	13.818	13.758	13.762
8/5/17 4:00	13.711	13.742	13.747	13.747	13.800	13.736	13.741
8/5/17 6:00	13.693	13.708	13.725	13.723	13.767	13.711	13.717
8/5/17 8:00	13.713	13.723	13.743	13.742	13.788	13.730	13.737
8/5/17 10:00	13.697	13.723	13.726	13.729	13.780	13.713	13.720
8/5/17 12:00	13.709	13.720	13.738	13.734	13.783	13.725	13.729
8/5/17 14:00	13.695	13.701	13.718	13.717	13.761	13.706	13.712
8/5/17 16:00	13.693	13.706	13.710	13.711	13.764	13.698	13.705
8/5/17 18:00	13.668	13.676	13.693	13.689	13.739	13.680	13.684
8/5/17 20:00	13.681	13.686	13.706	13.705	13.750	13.694	13.699
8/5/17 22:00	13.697	13.717	13.722	13.723	13.780	13.713	13.718
8/6/17 0:00	13.705	13.719	13.735	13.733	13.781	13.724	13.728
8/6/17 2:00	13.719	13.731	13.750	13.748	13.791	13.737	13.743
8/6/17 4:00	13.719	13.744	13.749	13.749	13.805	13.738	13.744
8/6/17 6:00	13.726	13.742	13.759	13.755	13.803	13.747	13.751
8/6/17 8:00	13.742	13.755	13.774	13.772	13.820	13.762	13.767
8/6/17 10:00	13.751	13.777	13.780	13.782	13.834	13.770	13.775
8/6/17 12:00	13.763	13.778	13.794	13.791	13.838	13.782	13.785
8/6/17 14:00	13.772	13.783	13.802	13.800	13.847	13.790	13.795
8/6/17 16:00	13.766	13.787	13.791	13.792	13.844	13.780	13.786
8/6/17 18:00	13.759	13.769	13.785	13.781	13.830	13.773	13.776
8/6/17 20:00	13.757	13.766	13.785	13.784	13.827	13.773	13.777
8/6/17 22:00	13.778	13.803	13.808	13.809	13.864	13.797	13.803
8/7/17 0:00	13.785	13.806	13.820	13.817	13.865	13.807	13.810
8/7/17 2:00	13.785	13.798	13.817	13.816	13.858	13.805	13.810
8/7/17 4:00	13.805	13.832	13.837	13.838	13.892	13.825	13.831
8/7/17 6:00	13.796	13.813	13.829	13.826	13.874	13.816	13.821
8/7/17 8:00	13.808	13.820	13.839	13.838	13.885	13.826	13.833
8/7/17 10:00	13.826	13.849	13.854	13.856	13.909	13.842	13.849
8/7/17 12:00	13.838	13.851	13.866	13.863	13.910	13.854	13.858

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
8/7/17 14:00	13.834	13.843	13.862	13.861	13.906	13.849	13.856
8/7/17 16:00	13.830	13.846	13.851	13.853	13.905	13.839	13.846
8/7/17 18:00	13.821	13.830	13.845	13.843	13.892	13.833	13.837
8/7/17 20:00	13.825	13.834	13.852	13.852	13.896	13.841	13.846
8/7/17 22:00	13.837	13.862	13.868	13.867	13.924	13.855	13.862
8/8/17 0:00	13.843	13.861	13.876	13.873	13.922	13.864	13.867
8/8/17 2:00	13.844	13.859	13.878	13.876	13.919	13.866	13.870
8/8/17 4:00	13.841	13.868	13.873	13.874	13.929	13.861	13.866
8/8/17 6:00	13.843	13.862	13.878	13.874	13.923	13.865	13.869
8/8/17 8:00	13.851	13.864	13.884	13.881	13.929	13.871	13.875
8/8/17 10:00	13.855	13.877	13.881	13.881	13.936	13.868	13.875
8/8/17 12:00	13.858	13.864	13.880	13.877	13.925	13.868	13.872
8/8/17 14:00	13.841	13.844	13.863	13.861	13.907	13.851	13.855
8/8/17 16:00	13.820	13.836	13.843	13.843	13.895	13.830	13.836
8/8/17 18:00	13.800	13.814	13.829	13.826	13.876	13.817	13.820
8/8/17 20:00	13.787	13.798	13.817	13.815	13.860	13.805	13.809
8/8/17 22:00	13.797	13.822	13.827	13.826	13.883	13.815	13.821
8/9/17 0:00	13.803	13.821	13.836	13.833	13.882	13.823	13.828
8/9/17 2:00	13.795	13.808	13.827	13.825	13.870	13.815	13.820
8/9/17 4:00	13.794	13.821	13.826	13.826	13.881	13.813	13.819
8/9/17 6:00	13.798	13.815	13.830	13.827	13.876	13.817	13.822
8/9/17 8:00	13.796	13.808	13.828	13.827	13.872	13.814	13.821
8/9/17 10:00	13.793	13.816	13.821	13.821	13.876	13.806	13.815
8/9/17 12:00	13.793	13.804	13.820	13.816	13.863	13.807	13.812
8/9/17 14:00	13.785	13.790	13.808	13.808	13.853	13.796	13.801
8/9/17 16:00	13.772	13.784	13.788	13.789	13.841	13.776	13.782
8/9/17 18:00	13.774	13.776	13.792	13.788	13.839	13.780	13.783
8/9/17 20:00	13.776	13.788	13.806	13.805	13.849	13.794	13.799
8/9/17 22:00	13.785	13.809	13.816	13.816	13.867	13.804	13.809
8/10/17 0:00	13.787	13.803	13.820	13.816	13.866	13.808	13.811
8/10/17 2:00	13.787	13.801	13.820	13.818	13.862	13.808	13.813
8/10/17 4:00	13.786	13.813	13.818	13.818	13.874	13.807	13.812
8/10/17 6:00	13.790	13.808	13.823	13.820	13.869	13.811	13.815
8/10/17 8:00	13.799	13.814	13.833	13.831	13.878	13.820	13.826
8/10/17 10:00	13.802	13.824	13.829	13.829	13.882	13.817	13.824
8/10/17 12:00	13.804	13.813	13.829	13.825	13.873	13.817	13.821
8/10/17 14:00	13.811	13.823	13.842	13.841	13.886	13.828	13.834
8/10/17 16:00	13.799	13.812	13.811	13.823	13.874	13.797	13.817
8/10/17 18:00	13.795	13.790	13.819	13.816	13.854	13.805	13.811
8/10/17 20:00	13.804	13.808	13.829	13.830	13.872	13.816	13.825
8/10/17 22:00	13.818	13.839	13.839	13.846	13.897	13.827	13.840
8/11/17 0:00	13.823	13.827	13.850	13.847	13.892	13.837	13.844
8/11/17 2:00	13.818	13.828	13.848	13.849	13.889	13.835	13.842
8/11/17 4:00	13.819	13.842	13.843	13.848	13.902	13.832	13.842
8/11/17 6:00	13.827	13.834	13.855	13.852	13.896	13.842	13.848
8/11/17 8:00	13.838	13.845	13.866	13.867	13.907	13.853	13.862
8/11/17 10:00	13.848	13.866	13.867	13.872	13.927	13.854	13.865

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
8/11/17 12:00	13.848	13.848	13.869	13.866	13.909	13.856	13.862
8/11/17 14:00	13.835	13.836	13.856	13.856	13.902	13.845	13.851
8/11/17 16:00	13.819	13.827	13.828	13.832	13.885	13.821	13.826
8/11/17 18:00	13.808	13.800	13.820	13.817	13.859	13.810	13.813
8/11/17 20:00	13.804	13.805	13.825	13.825	13.868	13.815	13.820
8/11/17 22:00	13.798	13.823	13.825	13.828	13.881	13.817	13.822
8/12/17 0:00	13.797	13.808	13.828	13.824	13.871	13.818	13.820
8/12/17 2:00	13.791	13.801	13.822	13.822	13.864	13.812	13.816
8/12/17 4:00	13.796	13.820	13.823	13.827	13.879	13.816	13.820
8/12/17 6:00	13.790	13.801	13.822	13.817	13.865	13.811	13.814
8/12/17 8:00	13.803	13.812	13.832	13.832	13.874	13.822	13.827
8/12/17 10:00	13.804	13.828	13.830	13.833	13.889	13.821	13.827
8/12/17 12:00	13.805	13.808	13.827	13.825	13.869	13.817	13.820
8/12/17 14:00	13.788	13.788	13.809	13.808	13.853	13.798	13.803
8/12/17 16:00	13.769	13.786	13.788	13.791	13.845	13.779	13.784
8/12/17 18:00	13.746	13.752	13.772	13.770	13.811	13.761	13.763
8/12/17 20:00	13.711	13.719	13.738	13.739	13.781	13.728	13.732
8/12/17 22:00	13.755	13.777	13.780	13.783	13.837	13.772	13.777
8/13/17 0:00	13.755	13.764	13.783	13.780	13.827	13.772	13.776
8/13/17 2:00	13.741	13.751	13.771	13.771	13.814	13.758	13.765
8/13/17 4:00	13.728	13.753	13.756	13.758	13.810	13.744	13.752
8/13/17 6:00	13.719	13.731	13.751	13.747	13.792	13.737	13.743
8/13/17 8:00	13.717	13.727	13.746	13.746	13.788	13.734	13.741
8/13/17 10:00	13.724	13.743	13.746	13.748	13.804	13.734	13.743
8/13/17 12:00	13.723	13.723	13.743	13.739	13.785	13.731	13.735
8/13/17 14:00	13.710	13.705	13.726	13.725	13.771	13.714	13.720
8/13/17 16:00	13.699	13.702	13.706	13.708	13.760	13.696	13.702
8/13/17 18:00	13.678	13.668	13.687	13.683	13.728	13.675	13.679
8/13/17 20:00	13.657	13.664	13.683	13.682	13.725	13.672	13.677
8/13/17 22:00	13.676	13.698	13.702	13.704	13.757	13.692	13.698
8/14/17 0:00	13.676	13.685	13.704	13.700	13.750	13.694	13.698
8/14/17 2:00	13.681	13.692	13.712	13.711	13.755	13.701	13.706
8/14/17 4:00	13.666	13.692	13.696	13.698	13.749	13.687	13.691
8/14/17 6:00	13.665	13.680	13.697	13.695	13.740	13.686	13.689
8/14/17 8:00	13.666	13.675	13.695	13.695	13.736	13.684	13.689
8/14/17 10:00	13.677	13.692	13.696	13.698	13.752	13.686	13.692
8/14/17 12:00	13.686	13.683	13.701	13.699	13.744	13.690	13.694
8/14/17 14:00	13.673	13.669	13.689	13.687	13.730	13.677	13.682
8/14/17 16:00	13.669	13.671	13.675	13.676	13.730	13.664	13.670
8/14/17 18:00	13.649	13.645	13.663	13.659	13.705	13.651	13.655
8/14/17 20:00	13.639	13.646	13.666	13.665	13.709	13.654	13.658
8/14/17 22:00	13.647	13.671	13.677	13.676	13.729	13.665	13.671
8/15/17 0:00	13.650	13.662	13.680	13.676	13.726	13.668	13.673
8/15/17 2:00	13.662	13.674	13.694	13.692	13.736	13.682	13.687
8/15/17 4:00	13.649	13.674	13.679	13.680	13.732	13.668	13.674
8/15/17 6:00	13.654	13.669	13.686	13.683	13.731	13.675	13.679
8/15/17 8:00	13.672	13.684	13.703	13.701	13.745	13.691	13.696

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
8/15/17 10:00	13.679	13.696	13.702	13.701	13.756	13.690	13.695
8/15/17 12:00	13.683	13.682	13.698	13.695	13.743	13.685	13.690
8/15/17 14:00	13.664	13.658	13.676	13.675	13.718	13.664	13.670
8/15/17 16:00	13.661	13.662	13.667	13.668	13.721	13.656	13.661
8/15/17 18:00	13.640	13.634	13.650	13.647	13.693	13.638	13.642
8/15/17 20:00	13.627	13.636	13.655	13.654	13.700	13.643	13.648
8/15/17 22:00	13.645	13.669	13.675	13.674	13.729	13.662	13.669
8/16/17 0:00	13.650	13.666	13.683	13.678	13.729	13.670	13.674
8/16/17 2:00	13.644	13.659	13.677	13.676	13.718	13.664	13.670
8/16/17 4:00	13.666	13.692	13.698	13.698	13.749	13.686	13.694
8/16/17 6:00	13.618	13.649	13.654	13.655	13.707	13.645	13.649
8/16/17 8:00	13.678	13.630	13.655	13.666	13.698	13.634	13.665
8/16/17 10:00	13.704	13.706	13.684	13.706	13.760	13.670	13.701
8/16/17 12:00	13.710	13.683	13.707	13.702	13.748	13.699	13.699
8/16/17 14:00	13.702	13.685	13.703	13.706	13.748	13.696	13.702
8/16/17 16:00	13.700	13.702	13.691	13.701	13.760	13.696	13.698
8/16/17 18:00	13.708	13.687	13.708	13.703	13.750	13.706	13.701
8/16/17 20:00	13.701	13.695	13.713	13.714	13.756	13.712	13.710
8/16/17 22:00	13.724	13.744	13.735	13.744	13.801	13.738	13.739
8/17/17 0:00	13.738	13.736	13.756	13.751	13.797	13.754	13.748
8/17/17 2:00	13.737	13.738	13.756	13.758	13.802	13.754	13.753
8/17/17 4:00	13.738	13.758	13.750	13.758	13.815	13.753	13.755
8/17/17 6:00	13.757	13.757	13.777	13.772	13.821	13.774	13.769
8/17/17 8:00	13.769	13.769	13.788	13.788	13.832	13.785	13.785
8/17/17 10:00	13.775	13.790	13.783	13.791	13.846	13.784	13.788
8/17/17 12:00	13.775	13.766	13.785	13.780	13.828	13.780	13.777
8/17/17 14:00	13.761	13.751	13.769	13.770	13.813	13.763	13.765
8/17/17 16:00	13.759	13.758	13.752	13.759	13.815	13.750	13.754
8/17/17 18:00	13.751	13.728	13.747	13.742	13.790	13.741	13.740
8/17/17 20:00	13.724	13.720	13.738	13.739	13.780	13.732	13.734
8/17/17 22:00	13.722	13.744	13.740	13.746	13.802	13.738	13.741
8/18/17 0:00	13.727	13.726	13.745	13.739	13.786	13.740	13.738
8/18/17 2:00	13.709	13.714	13.731	13.732	13.776	13.725	13.727
8/18/17 4:00	13.729	13.752	13.746	13.753	13.807	13.743	13.748
8/18/17 6:00	13.734	13.737	13.757	13.752	13.802	13.750	13.750
8/18/17 8:00	13.741	13.746	13.764	13.765	13.808	13.758	13.760
8/18/17 10:00	13.758	13.772	13.768	13.774	13.827	13.764	13.769
8/18/17 12:00	13.752	13.747	13.765	13.760	13.808	13.758	13.757
8/18/17 14:00	13.747	13.739	13.757	13.757	13.800	13.749	13.752
8/18/17 16:00	13.750	13.751	13.748	13.754	13.811	13.743	13.749
8/18/17 18:00	13.747	13.731	13.750	13.745	13.793	13.743	13.743
8/18/17 20:00	13.736	13.734	13.754	13.752	13.795	13.745	13.748
8/18/17 22:00	13.737	13.760	13.758	13.763	13.817	13.753	13.758
8/19/17 0:00	13.740	13.749	13.768	13.763	13.810	13.760	13.760
8/19/17 2:00	13.734	13.744	13.762	13.762	13.807	13.754	13.757
8/19/17 4:00	13.735	13.759	13.758	13.762	13.817	13.752	13.757
8/19/17 6:00	13.736	13.744	13.763	13.758	13.803	13.755	13.755

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
8/19/17 8:00	13.738	13.745	13.764	13.763	13.807	13.756	13.758
8/19/17 10:00	13.746	13.762	13.761	13.764	13.817	13.754	13.759
8/19/17 12:00	13.739	13.734	13.753	13.748	13.796	13.744	13.745
8/19/17 14:00	13.721	13.712	13.731	13.730	13.772	13.722	13.725
8/19/17 16:00	13.707	13.706	13.706	13.709	13.764	13.698	13.703
8/19/17 18:00	13.687	13.672	13.690	13.686	13.733	13.681	13.682
8/19/17 20:00	13.663	13.663	13.682	13.681	13.723	13.672	13.676
8/19/17 22:00	13.673	13.693	13.693	13.695	13.751	13.686	13.691
8/20/17 0:00	13.680	13.687	13.706	13.700	13.749	13.696	13.697
8/20/17 2:00	13.678	13.686	13.705	13.703	13.749	13.695	13.699
8/20/17 4:00	13.682	13.705	13.707	13.707	13.763	13.698	13.704
8/20/17 6:00	13.685	13.694	13.714	13.708	13.753	13.703	13.705
8/20/17 8:00	13.697	13.703	13.723	13.722	13.766	13.713	13.717
8/20/17 10:00	13.710	13.724	13.724	13.727	13.779	13.716	13.721
8/20/17 12:00	13.719	13.710	13.728	13.723	13.771	13.717	13.719
8/20/17 14:00	13.709	13.696	13.715	13.714	13.758	13.704	13.709
8/20/17 16:00	13.710	13.704	13.706	13.707	13.763	13.696	13.703
8/20/17 18:00	13.710	13.684	13.701	13.696	13.747	13.692	13.693
8/20/17 20:00	13.692	13.689	13.708	13.706	13.750	13.698	13.702
8/20/17 22:00	13.708	13.727	13.729	13.729	13.786	13.720	13.725
8/21/17 0:00	13.721	13.728	13.746	13.740	13.787	13.735	13.737
8/21/17 2:00	13.722	13.730	13.748	13.746	13.794	13.738	13.742
8/21/17 4:00	13.715	13.737	13.738	13.738	13.795	13.729	13.735
8/21/17 6:00	13.724	13.733	13.751	13.745	13.793	13.739	13.743
8/21/17 8:00	13.734	13.743	13.761	13.758	13.804	13.750	13.754
8/21/17 10:00	13.740	13.758	13.760	13.759	13.814	13.750	13.755
8/21/17 12:00	13.739	13.738	13.755	13.749	13.801	13.744	13.747
8/21/17 14:00	13.730	13.733	13.751	13.748	13.794	13.740	13.744
8/21/17 16:00	13.731	13.736	13.739	13.739	13.793	13.729	13.734
8/21/17 18:00	13.728	13.717	13.734	13.729	13.778	13.722	13.726
8/21/17 20:00	13.707	13.711	13.730	13.728	13.773	13.719	13.723
8/21/17 22:00	13.717	13.740	13.743	13.742	13.801	13.732	13.739
8/22/17 0:00	13.745	13.755	13.773	13.768	13.816	13.761	13.765
8/22/17 2:00	13.761	13.770	13.790	13.787	13.831	13.778	13.783
8/22/17 4:00	13.777	13.803	13.805	13.805	13.861	13.795	13.801
8/22/17 6:00	13.801	13.814	13.832	13.827	13.875	13.820	13.823
8/22/17 8:00	13.836	13.848	13.867	13.865	13.911	13.855	13.860
8/22/17 10:00	13.851	13.873	13.876	13.876	13.929	13.865	13.871
8/22/17 12:00	13.859	13.866	13.883	13.877	13.924	13.871	13.875
8/22/17 14:00	13.854	13.857	13.875	13.873	13.918	13.864	13.868
8/22/17 16:00	13.848	13.861	13.864	13.863	13.916	13.852	13.858
8/22/17 18:00	13.839	13.840	13.856	13.853	13.902	13.844	13.848
8/22/17 20:00	13.824	13.833	13.853	13.849	13.894	13.841	13.845
8/22/17 22:00	13.829	13.857	13.861	13.860	13.916	13.849	13.855
8/23/17 0:00	13.840	13.858	13.875	13.870	13.918	13.862	13.865
8/23/17 2:00	13.839	13.853	13.872	13.869	13.913	13.860	13.864
8/23/17 4:00	13.829	13.858	13.862	13.863	13.916	13.851	13.856

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
8/23/17 6:00	13.825	13.844	13.860	13.855	13.903	13.848	13.852
8/23/17 8:00	13.831	13.847	13.866	13.863	13.909	13.853	13.858
8/23/17 10:00	13.837	13.859	13.863	13.862	13.916	13.852	13.858
8/23/17 12:00	13.831	13.837	13.854	13.849	13.896	13.842	13.845
8/23/17 14:00	13.812	13.812	13.830	13.828	13.874	13.817	13.824
8/23/17 16:00	13.791	13.797	13.802	13.801	13.854	13.790	13.796
8/23/17 18:00	13.768	13.767	13.782	13.778	13.827	13.770	13.774
8/23/17 20:00	13.750	13.758	13.776	13.774	13.819	13.764	13.769
8/23/17 22:00	13.755	13.782	13.787	13.786	13.837	13.775	13.780
8/24/17 0:00	13.761	13.779	13.794	13.789	13.839	13.781	13.786
8/24/17 2:00	13.760	13.777	13.794	13.791	13.835	13.782	13.787
8/24/17 4:00	13.756	13.784	13.790	13.789	13.843	13.777	13.784
8/24/17 6:00	13.745	13.762	13.778	13.773	13.822	13.766	13.769
8/24/17 8:00	13.751	13.765	13.783	13.781	13.828	13.771	13.776
8/24/17 10:00	13.761	13.780	13.784	13.783	13.837	13.772	13.778
8/24/17 12:00	13.751	13.762	13.767	13.766	13.819	13.756	13.762
8/24/17 14:00	13.742	13.745	13.760	13.755	13.806	13.748	13.752
8/24/17 16:00	13.727	13.729	13.746	13.744	13.789	13.735	13.739
8/24/17 18:00	13.721	13.738	13.742	13.741	13.797	13.731	13.737
8/24/17 20:00	13.715	13.728	13.743	13.738	13.788	13.730	13.735
8/24/17 22:00	13.722	13.735	13.753	13.751	13.794	13.740	13.746
8/25/17 0:00	13.730	13.756	13.761	13.759	13.813	13.748	13.754
8/25/17 2:00	13.734	13.749	13.765	13.760	13.808	13.752	13.757
8/25/17 4:00	13.739	13.754	13.772	13.769	13.815	13.759	13.764
8/25/17 6:00	13.734	13.760	13.766	13.764	13.819	13.754	13.760
8/25/17 8:00	13.741	13.759	13.773	13.769	13.820	13.761	13.765
8/25/17 10:00	13.764	13.772	13.789	13.786	13.833	13.777	13.781
8/25/17 12:00	13.770	13.782	13.786	13.784	13.837	13.774	13.779
8/25/17 14:00	13.763	13.764	13.779	13.775	13.824	13.766	13.770
8/25/17 16:00	13.761	13.754	13.772	13.769	13.814	13.759	13.764
8/25/17 18:00	13.761	13.769	13.773	13.772	13.827	13.761	13.767
8/25/17 20:00	13.742	13.755	13.769	13.765	13.815	13.757	13.761
8/25/17 22:00	13.756	13.771	13.788	13.786	13.829	13.775	13.780
8/26/17 0:00	13.776	13.802	13.807	13.805	13.859	13.795	13.801
8/26/17 2:00	13.770	13.788	13.802	13.797	13.847	13.790	13.793
8/26/17 4:00	13.779	13.797	13.814	13.811	13.858	13.801	13.805
8/26/17 6:00	13.785	13.810	13.815	13.814	13.868	13.804	13.810
8/26/17 8:00	13.792	13.810	13.824	13.820	13.867	13.811	13.816
8/26/17 10:00	13.794	13.804	13.823	13.819	13.865	13.809	13.815
8/26/17 12:00	13.802	13.812	13.818	13.816	13.869	13.806	13.811
8/26/17 14:00	13.786	13.788	13.802	13.797	13.848	13.789	13.793
8/26/17 16:00	13.766	13.768	13.785	13.782	13.827	13.773	13.778
8/26/17 18:00	13.770	13.779	13.784	13.782	13.838	13.772	13.778
8/26/17 20:00	13.757	13.773	13.785	13.782	13.831	13.773	13.777
8/26/17 22:00	13.769	13.784	13.801	13.798	13.843	13.789	13.794
8/27/17 0:00	13.767	13.792	13.799	13.797	13.852	13.787	13.792
8/27/17 2:00	13.758	13.777	13.791	13.788	13.837	13.779	13.783

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
8/27/17 4:00	13.753	13.769	13.786	13.783	13.829	13.773	13.779
8/27/17 6:00	13.806	13.833	13.839	13.837	13.891	13.826	13.833
8/27/17 8:00	13.787	13.803	13.817	13.814	13.862	13.802	13.811
8/27/17 10:00	13.798	13.809	13.826	13.824	13.872	13.813	13.820
8/27/17 12:00	13.824	13.840	13.844	13.844	13.897	13.831	13.839
8/27/17 14:00	13.813	13.818	13.832	13.829	13.875	13.820	13.825
8/27/17 16:00	13.810	13.806	13.824	13.822	13.867	13.811	13.817
8/27/17 18:00	13.804	13.814	13.819	13.819	13.872	13.807	13.813
8/27/17 20:00	13.805	13.817	13.832	13.827	13.880	13.819	13.824
8/27/17 22:00	13.814	13.826	13.845	13.842	13.890	13.833	13.839
8/28/17 0:00	13.821	13.848	13.853	13.851	13.909	13.841	13.847
8/28/17 2:00	13.818	13.838	13.852	13.848	13.898	13.839	13.844
8/28/17 4:00	13.815	13.832	13.850	13.847	13.891	13.837	13.842
8/28/17 6:00	13.817	13.845	13.850	13.849	13.904	13.838	13.844
8/28/17 8:00	13.824	13.842	13.856	13.852	13.901	13.844	13.849
8/28/17 10:00	13.832	13.841	13.858	13.856	13.902	13.846	13.852
8/28/17 12:00	13.832	13.848	13.853	13.852	13.909	13.841	13.847
8/28/17 14:00	13.818	13.825	13.839	13.835	13.882	13.827	13.831
8/28/17 16:00	13.811	13.809	13.827	13.825	13.870	13.814	13.819
8/28/17 18:00	13.806	13.817	13.822	13.821	13.874	13.810	13.817
8/28/17 20:00	13.797	13.812	13.827	13.823	13.873	13.814	13.819
8/28/17 22:00	13.804	13.820	13.838	13.835	13.881	13.825	13.831
8/29/17 0:00	13.806	13.835	13.840	13.838	13.894	13.828	13.834
8/29/17 2:00	13.805	13.825	13.839	13.835	13.885	13.827	13.832
8/29/17 4:00	13.802	13.818	13.836	13.834	13.878	13.824	13.830
8/29/17 6:00	13.806	13.834	13.839	13.837	13.892	13.827	13.833
8/29/17 8:00	13.816	13.836	13.851	13.846	13.895	13.839	13.843
8/29/17 10:00	13.823	13.833	13.850	13.848	13.895	13.837	13.844
8/29/17 12:00	13.824	13.843	13.848	13.845	13.900	13.835	13.841
8/29/17 14:00	13.812	13.819	13.833	13.829	13.877	13.821	13.825
8/29/17 16:00	13.798	13.795	13.812	13.810	13.856	13.799	13.804
8/29/17 18:00	13.790	13.801	13.806	13.804	13.857	13.794	13.799
8/29/17 20:00	13.777	13.792	13.807	13.802	13.853	13.794	13.798
8/29/17 22:00	13.786	13.802	13.820	13.817	13.862	13.807	13.813
8/30/17 0:00	13.786	13.814	13.819	13.818	13.869	13.807	13.814
8/30/17 2:00	13.785	13.806	13.820	13.816	13.866	13.807	13.812
8/30/17 4:00	13.790	13.808	13.825	13.822	13.867	13.812	13.818
8/30/17 6:00	13.792	13.820	13.826	13.824	13.879	13.813	13.821
8/30/17 8:00	13.802	13.822	13.837	13.833	13.882	13.824	13.829
8/30/17 10:00	13.811	13.824	13.842	13.839	13.886	13.829	13.834
8/30/17 12:00	13.816	13.835	13.840	13.838	13.892	13.828	13.834
8/30/17 14:00	13.809	13.816	13.829	13.826	13.873	13.817	13.821
8/30/17 16:00	13.799	13.796	13.813	13.811	13.857	13.801	13.806
8/30/17 18:00	13.788	13.799	13.806	13.804	13.855	13.793	13.799
8/30/17 20:00	13.780	13.796	13.810	13.805	13.857	13.797	13.802
8/30/17 22:00	13.800	13.817	13.833	13.831	13.877	13.821	13.827
8/31/17 0:00	13.807	13.834	13.839	13.838	13.890	13.827	13.833

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
8/31/17 2:00	13.801	13.822	13.835	13.831	13.881	13.823	13.827
8/31/17 4:00	13.805	13.823	13.840	13.837	13.882	13.828	13.833
8/31/17 6:00	13.807	13.836	13.841	13.840	13.895	13.829	13.835
8/31/17 8:00	13.817	13.837	13.850	13.846	13.897	13.838	13.843
8/31/17 10:00	13.822	13.833	13.850	13.848	13.891	13.837	13.843
8/31/17 12:00	13.822	13.839	13.844	13.843	13.895	13.831	13.837
8/31/17 14:00	13.807	13.816	13.828	13.824	13.872	13.816	13.821
8/31/17 16:00	13.792	13.790	13.807	13.804	13.851	13.794	13.800
8/31/17 18:00	13.783	13.797	13.802	13.800	13.852	13.790	13.796
8/31/17 20:00	13.772	13.791	13.804	13.800	13.851	13.791	13.795
8/31/17 22:00	13.779	13.795	13.811	13.809	13.854	13.798	13.804
9/1/17 0:00	13.780	13.808	13.814	13.812	13.863	13.802	13.807
9/1/17 2:00	13.777	13.798	13.810	13.807	13.857	13.798	13.803
9/1/17 4:00	13.790	13.805	13.824	13.821	13.865	13.811	13.817
9/1/17 6:00	13.783	13.810	13.815	13.814	13.869	13.804	13.809
9/1/17 8:00	13.777	13.797	13.810	13.806	13.857	13.797	13.802
9/1/17 10:00	13.771	13.782	13.799	13.796	13.843	13.788	13.795
9/1/17 12:00	13.779	13.801	13.807	13.805	13.859	13.794	13.801
9/1/17 14:00	13.765	13.784	13.796	13.791	13.840	13.783	13.788
9/1/17 16:00	13.769	13.778	13.795	13.793	13.837	13.783	13.789
9/1/17 18:00	13.734	13.762	13.766	13.764	13.818	13.753	13.761
9/1/17 20:00	13.750	13.768	13.781	13.777	13.825	13.768	13.773
9/1/17 22:00	13.762	13.778	13.796	13.793	13.840	13.782	13.789
9/2/17 0:00	13.764	13.792	13.797	13.796	13.848	13.784	13.792
9/2/17 2:00	13.755	13.778	13.791	13.787	13.838	13.778	13.783
9/2/17 4:00	13.761	13.779	13.795	13.793	13.839	13.783	13.789
9/2/17 6:00	13.769	13.797	13.802	13.801	13.852	13.790	13.796
9/2/17 8:00	13.783	13.803	13.816	13.813	13.864	13.804	13.809
9/2/17 10:00	13.788	13.802	13.818	13.817	13.859	13.805	13.811
9/2/17 12:00	13.794	13.810	13.816	13.815	13.869	13.803	13.810
9/2/17 14:00	13.791	13.794	13.808	13.804	13.854	13.795	13.800
9/2/17 16:00	13.788	13.785	13.802	13.799	13.843	13.789	13.795
9/2/17 18:00	13.785	13.797	13.801	13.800	13.853	13.790	13.796
9/2/17 20:00	13.778	13.796	13.808	13.804	13.853	13.795	13.801
9/2/17 22:00	13.789	13.805	13.822	13.820	13.866	13.809	13.814
9/3/17 0:00	13.790	13.818	13.823	13.823	13.874	13.811	13.817
9/3/17 2:00	13.786	13.807	13.820	13.816	13.868	13.807	13.813
9/3/17 4:00	13.787	13.805	13.822	13.819	13.865	13.809	13.815
9/3/17 6:00	13.781	13.809	13.814	13.812	13.865	13.802	13.809
9/3/17 8:00	13.781	13.802	13.815	13.812	13.863	13.802	13.808
9/3/17 10:00	13.787	13.799	13.815	13.813	13.857	13.802	13.809
9/3/17 12:00	13.785	13.797	13.803	13.801	13.857	13.790	13.796
9/3/17 14:00	13.771	13.770	13.782	13.778	13.828	13.769	13.774
9/3/17 16:00	13.755	13.743	13.759	13.756	13.800	13.747	13.752
9/3/17 18:00	13.730	13.734	13.739	13.738	13.791	13.727	13.734
9/3/17 20:00	13.705	13.719	13.731	13.727	13.776	13.718	13.724
9/3/17 22:00	13.711	13.727	13.743	13.740	13.787	13.730	13.736

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
9/4/17 0:00	13.710	13.736	13.743	13.741	13.792	13.730	13.736
9/4/17 2:00	13.707	13.729	13.741	13.738	13.786	13.729	13.734
9/4/17 4:00	13.701	13.720	13.736	13.734	13.780	13.723	13.730
9/4/17 6:00	13.709	13.738	13.743	13.742	13.792	13.731	13.737
9/4/17 8:00	13.734	13.757	13.769	13.764	13.816	13.756	13.761
9/4/17 10:00	13.762	13.776	13.791	13.790	13.834	13.779	13.785
9/4/17 12:00	13.775	13.795	13.801	13.800	13.854	13.789	13.796
9/4/17 14:00	13.781	13.792	13.805	13.801	13.851	13.792	13.797
9/4/17 16:00	13.775	13.781	13.797	13.795	13.838	13.784	13.791
9/4/17 18:00	13.791	13.810	13.816	13.814	13.867	13.803	13.810
9/4/17 20:00	13.793	13.814	13.826	13.822	13.872	13.814	13.819
9/4/17 22:00	13.828	13.845	13.862	13.859	13.907	13.849	13.855
9/5/17 0:00	13.842	13.870	13.876	13.874	13.927	13.863	13.869
9/5/17 2:00	13.850	13.874	13.886	13.883	13.931	13.874	13.879
9/5/17 4:00	13.859	13.878	13.894	13.892	13.937	13.881	13.887
9/5/17 6:00	13.869	13.898	13.904	13.902	13.953	13.892	13.898
9/5/17 8:00	13.881	13.904	13.917	13.914	13.964	13.904	13.909
9/5/17 10:00	13.889	13.905	13.922	13.920	13.968	13.909	13.915
9/5/17 12:00	13.886	13.909	13.916	13.914	13.967	13.901	13.909
9/5/17 14:00	13.870	13.888	13.900	13.896	13.945	13.886	13.891
9/5/17 16:00	13.855	13.863	13.878	13.876	13.920	13.865	13.872
9/5/17 18:00	13.845	13.863	13.869	13.868	13.921	13.857	13.863
9/5/17 20:00	13.838	13.860	13.871	13.867	13.918	13.858	13.865
9/5/17 22:00	13.849	13.869	13.885	13.883	13.931	13.872	13.879
9/6/17 0:00	13.855	13.884	13.890	13.889	13.941	13.877	13.884
9/6/17 2:00	13.856	13.879	13.892	13.887	13.936	13.878	13.884
9/6/17 4:00	13.852	13.871	13.887	13.885	13.932	13.874	13.880
9/6/17 6:00	13.854	13.884	13.889	13.888	13.939	13.877	13.884
9/6/17 8:00	13.858	13.882	13.894	13.891	13.942	13.882	13.887
9/6/17 10:00	13.859	13.875	13.891	13.890	13.934	13.878	13.885
9/6/17 12:00	13.853	13.874	13.879	13.878	13.929	13.867	13.873
9/6/17 14:00	13.832	13.845	13.858	13.854	13.904	13.845	13.851
9/6/17 16:00	13.821	13.826	13.841	13.839	13.883	13.828	13.834
9/6/17 18:00	13.807	13.829	13.834	13.833	13.887	13.822	13.829
9/6/17 20:00	13.799	13.820	13.833	13.829	13.880	13.821	13.826
9/6/17 22:00	13.809	13.829	13.844	13.843	13.887	13.832	13.838
9/7/17 0:00	13.814	13.843	13.849	13.848	13.901	13.836	13.843
9/7/17 2:00	13.818	13.843	13.854	13.853	13.901	13.842	13.847
9/7/17 4:00	13.807	13.828	13.843	13.841	13.888	13.830	13.837
9/7/17 6:00	13.791	13.821	13.826	13.825	13.877	13.814	13.820
9/7/17 8:00	13.789	13.812	13.824	13.822	13.870	13.812	13.817
9/7/17 10:00	13.792	13.808	13.825	13.822	13.869	13.812	13.818
9/7/17 12:00	13.793	13.812	13.817	13.817	13.867	13.805	13.812
9/7/17 14:00	13.780	13.789	13.800	13.797	13.848	13.788	13.793
9/7/17 16:00	13.767	13.765	13.780	13.779	13.823	13.768	13.774
9/7/17 18:00	13.743	13.762	13.768	13.766	13.816	13.756	13.762
9/7/17 20:00	13.737	13.757	13.768	13.764	13.814	13.755	13.761

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
9/7/17 22:00	13.749	13.768	13.784	13.781	13.825	13.770	13.777
9/8/17 0:00	13.753	13.781	13.787	13.786	13.839	13.775	13.782
9/8/17 2:00	13.756	13.781	13.793	13.789	13.838	13.780	13.785
9/8/17 4:00	13.756	13.776	13.791	13.790	13.837	13.779	13.785
9/8/17 6:00	13.758	13.786	13.793	13.791	13.844	13.780	13.787
9/8/17 8:00	13.769	13.793	13.805	13.802	13.849	13.792	13.797
9/8/17 10:00	13.785	13.798	13.814	13.811	13.858	13.801	13.808
9/8/17 12:00	13.790	13.806	13.811	13.811	13.861	13.798	13.805
9/8/17 14:00	13.782	13.788	13.800	13.797	13.849	13.787	13.792
9/8/17 16:00	13.770	13.768	13.782	13.781	13.827	13.770	13.776
9/8/17 18:00	13.764	13.774	13.780	13.779	13.829	13.766	13.775
9/8/17 20:00	13.760	13.778	13.790	13.787	13.838	13.778	13.783
9/8/17 22:00	13.779	13.796	13.812	13.810	13.854	13.799	13.806
9/9/17 0:00	13.792	13.820	13.825	13.824	13.878	13.813	13.820
9/9/17 2:00	13.796	13.819	13.830	13.827	13.876	13.817	13.823
9/9/17 4:00	13.800	13.819	13.834	13.832	13.880	13.821	13.827
9/9/17 6:00	13.801	13.831	13.837	13.836	13.888	13.824	13.831
9/9/17 8:00	13.807	13.830	13.842	13.839	13.889	13.829	13.836
9/9/17 10:00	13.815	13.830	13.846	13.844	13.891	13.832	13.839
9/9/17 12:00	13.824	13.845	13.850	13.849	13.901	13.838	13.845
9/9/17 14:00	13.822	13.828	13.840	13.836	13.888	13.827	13.832
9/9/17 16:00	13.804	13.806	13.821	13.819	13.865	13.809	13.815
9/9/17 18:00	13.785	13.800	13.805	13.804	13.855	13.794	13.801
9/9/17 20:00	13.782	13.801	13.812	13.808	13.860	13.799	13.806
9/9/17 22:00	13.799	13.818	13.832	13.830	13.875	13.820	13.826
9/10/17 0:00	13.805	13.833	13.838	13.837	13.892	13.826	13.834
9/10/17 2:00	13.813	13.836	13.847	13.844	13.894	13.835	13.841
9/10/17 4:00	13.815	13.833	13.848	13.847	13.894	13.836	13.842
9/10/17 6:00	13.814	13.842	13.847	13.847	13.898	13.835	13.842
9/10/17 8:00	13.831	13.853	13.865	13.861	13.910	13.852	13.858
9/10/17 10:00	13.835	13.850	13.864	13.863	13.910	13.852	13.859
9/10/17 12:00	13.838	13.857	13.861	13.861	13.911	13.850	13.856
9/10/17 14:00	13.823	13.832	13.843	13.840	13.892	13.831	13.837
9/10/17 16:00	13.811	13.811	13.824	13.824	13.868	13.813	13.819
9/10/17 18:00	13.803	13.815	13.820	13.819	13.870	13.807	13.815
9/10/17 20:00	13.795	13.815	13.825	13.823	13.875	13.813	13.819
9/10/17 22:00	13.810	13.829	13.844	13.843	13.891	13.831	13.838
9/11/17 0:00	13.816	13.845	13.850	13.849	13.904	13.838	13.844
9/11/17 2:00	13.818	13.840	13.853	13.850	13.901	13.840	13.846
9/11/17 4:00	13.813	13.833	13.847	13.846	13.891	13.835	13.842
9/11/17 6:00	13.815	13.844	13.849	13.849	13.902	13.837	13.844
9/11/17 8:00	13.820	13.845	13.855	13.852	13.901	13.842	13.849
9/11/17 10:00	13.826	13.840	13.855	13.853	13.901	13.842	13.848
9/11/17 12:00	13.825	13.841	13.846	13.845	13.896	13.833	13.840
9/11/17 14:00	13.814	13.821	13.830	13.827	13.880	13.818	13.824
9/11/17 16:00	13.802	13.797	13.812	13.811	13.856	13.799	13.806
9/11/17 18:00	13.789	13.799	13.805	13.805	13.854	13.793	13.800

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
9/11/17 20:00	13.778	13.797	13.808	13.806	13.856	13.795	13.801
9/11/17 22:00	13.786	13.804	13.818	13.816	13.862	13.806	13.813
9/12/17 0:00	13.788	13.817	13.822	13.821	13.872	13.810	13.817
9/12/17 2:00	13.778	13.803	13.814	13.812	13.862	13.801	13.807
9/12/17 4:00	13.773	13.793	13.808	13.806	13.851	13.796	13.802
9/12/17 6:00	13.773	13.802	13.809	13.807	13.861	13.796	13.804
9/12/17 8:00	13.770	13.795	13.806	13.804	13.853	13.793	13.799
9/12/17 10:00	13.774	13.788	13.802	13.801	13.845	13.790	13.796
9/12/17 12:00	13.770	13.783	13.789	13.789	13.841	13.777	13.784
9/12/17 14:00	13.749	13.756	13.767	13.763	13.812	13.754	13.759
9/12/17 16:00	13.730	13.727	13.741	13.740	13.788	13.729	13.735
9/12/17 18:00	13.714	13.725	13.729	13.729	13.780	13.717	13.724
9/12/17 20:00	13.694	13.714	13.726	13.721	13.774	13.712	13.719
9/12/17 22:00	13.692	13.711	13.726	13.724	13.770	13.713	13.720
9/13/17 0:00	13.691	13.721	13.726	13.725	13.775	13.714	13.721
9/13/17 2:00	13.685	13.711	13.721	13.719	13.769	13.709	13.715
9/13/17 4:00	13.674	13.696	13.710	13.708	13.754	13.698	13.704
9/13/17 6:00	13.669	13.698	13.704	13.703	13.759	13.692	13.699
9/13/17 8:00	13.675	13.700	13.711	13.709	13.759	13.698	13.704
9/13/17 10:00	13.672	13.691	13.704	13.703	13.747	13.692	13.698
9/13/17 12:00	13.671	13.683	13.688	13.686	13.739	13.676	13.683
9/13/17 14:00	13.648	13.653	13.662	13.660	13.711	13.650	13.657
9/13/17 16:00	13.631	13.632	13.647	13.645	13.700	13.634	13.641
9/13/17 18:00	13.617	13.624	13.629	13.629	13.681	13.617	13.625
9/13/17 20:00	13.603	13.622	13.633	13.630	13.683	13.620	13.627
9/13/17 22:00	13.608	13.625	13.641	13.639	13.686	13.629	13.636
9/14/17 0:00	13.618	13.644	13.650	13.649	13.700	13.638	13.645
9/14/17 2:00	13.609	13.632	13.642	13.639	13.692	13.631	13.637
9/14/17 4:00	13.613	13.633	13.646	13.644	13.691	13.634	13.641
9/14/17 6:00	13.618	13.646	13.652	13.652	13.706	13.640	13.647
9/14/17 8:00	13.627	13.651	13.661	13.659	13.708	13.648	13.655
9/14/17 10:00	13.634	13.650	13.662	13.661	13.707	13.650	13.658
9/14/17 12:00	13.644	13.654	13.659	13.659	13.711	13.647	13.655
9/14/17 14:00	13.637	13.637	13.648	13.645	13.694	13.635	13.642
9/14/17 16:00	13.625	13.615	13.629	13.628	13.675	13.617	13.623
9/14/17 18:00	13.609	13.612	13.618	13.616	13.668	13.605	13.612
9/14/17 20:00	13.599	13.615	13.625	13.623	13.672	13.612	13.619
9/14/17 22:00	13.611	13.626	13.640	13.639	13.685	13.628	13.634
9/15/17 0:00	13.613	13.635	13.642	13.640	13.691	13.630	13.636
9/15/17 2:00	13.615	13.636	13.647	13.644	13.696	13.634	13.640
9/15/17 4:00	13.610	13.628	13.643	13.641	13.687	13.630	13.637
9/15/17 6:00	13.602	13.629	13.635	13.635	13.688	13.623	13.630
9/15/17 8:00	13.613	13.632	13.644	13.642	13.691	13.632	13.638
9/15/17 10:00	13.624	13.630	13.644	13.642	13.687	13.632	13.639
9/15/17 12:00	13.630	13.650	13.655	13.654	13.707	13.642	13.650
9/15/17 14:00	13.624	13.634	13.642	13.640	13.690	13.630	13.635
9/15/17 16:00	13.616	13.613	13.626	13.626	13.673	13.614	13.621

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
9/15/17 18:00	13.605	13.616	13.621	13.620	13.672	13.608	13.616
9/15/17 20:00	13.603	13.620	13.629	13.627	13.676	13.618	13.624
9/15/17 22:00	13.621	13.639	13.653	13.650	13.697	13.640	13.648
9/16/17 0:00	13.622	13.647	13.652	13.652	13.703	13.640	13.648
9/16/17 2:00	13.625	13.647	13.657	13.655	13.706	13.645	13.651
9/16/17 4:00	13.626	13.644	13.658	13.656	13.702	13.645	13.653
9/16/17 6:00	13.650	13.671	13.678	13.677	13.733	13.667	13.675
9/16/17 8:00	13.680	13.702	13.712	13.709	13.762	13.701	13.709
9/16/17 10:00	13.723	13.744	13.758	13.758	13.802	13.747	13.754
9/16/17 12:00	13.724	13.746	13.753	13.752	13.804	13.741	13.750
9/16/17 14:00	13.729	13.742	13.752	13.749	13.799	13.740	13.747
9/16/17 16:00	13.743	13.755	13.767	13.766	13.815	13.755	13.763
9/16/17 18:00	13.751	13.772	13.779	13.778	13.830	13.767	13.775
9/16/17 20:00	13.761	13.786	13.796	13.793	13.841	13.783	13.790
9/16/17 22:00	13.781	13.803	13.817	13.816	13.862	13.804	13.812
9/17/17 0:00	13.793	13.824	13.829	13.828	13.878	13.816	13.825
9/17/17 2:00	13.813	13.840	13.850	13.848	13.898	13.837	13.844
9/17/17 4:00	13.813	13.837	13.850	13.848	13.894	13.837	13.845
9/17/17 6:00	13.826	13.857	13.862	13.861	13.909	13.850	13.856
9/17/17 8:00	13.850	13.876	13.886	13.884	13.934	13.873	13.880
9/17/17 10:00	13.855	13.874	13.888	13.886	13.932	13.875	13.883
9/17/17 12:00	13.842	13.872	13.877	13.876	13.928	13.864	13.871
9/17/17 14:00	13.825	13.846	13.856	13.853	13.903	13.843	13.850
9/17/17 16:00	13.792	13.812	13.825	13.824	13.867	13.813	13.819
9/17/17 18:00	13.782	13.808	13.814	13.813	13.865	13.801	13.810
9/17/17 20:00	13.772	13.797	13.807	13.806	13.852	13.795	13.800
9/17/17 22:00	13.774	13.799	13.812	13.811	13.855	13.798	13.805
9/18/17 0:00	13.772	13.802	13.807	13.807	13.857	13.794	13.802
9/18/17 2:00	13.758	13.782	13.792	13.790	13.838	13.779	13.787
9/18/17 4:00	13.733	13.750	13.765	13.764	13.810	13.753	13.762
9/18/17 6:00	13.720	13.748	13.754	13.753	13.802	13.741	13.749
9/18/17 8:00	13.737	13.761	13.770	13.768	13.819	13.757	13.765
9/18/17 10:00	13.730	13.751	13.763	13.762	13.807	13.751	13.758
9/18/17 12:00	13.731	13.750	13.755	13.755	13.808	13.743	13.751
9/18/17 14:00	13.718	13.730	13.739	13.737	13.787	13.727	13.735
9/18/17 16:00	13.696	13.701	13.713	13.713	13.756	13.701	13.709
9/18/17 18:00	13.679	13.693	13.699	13.698	13.750	13.686	13.694
9/18/17 20:00	13.673	13.694	13.703	13.702	13.751	13.691	13.698
9/18/17 22:00	13.680	13.699	13.712	13.712	13.759	13.701	13.709
9/19/17 0:00	13.670	13.698	13.705	13.704	13.755	13.692	13.700
9/19/17 2:00	13.660	13.685	13.694	13.692	13.740	13.682	13.689
9/19/17 4:00	13.644	13.666	13.680	13.679	13.724	13.667	13.674
9/19/17 6:00	13.626	13.654	13.660	13.660	13.709	13.647	13.656
9/19/17 8:00	13.618	13.642	13.652	13.650	13.700	13.640	13.647
9/19/17 10:00	13.611	13.626	13.640	13.638	13.683	13.627	13.633
9/19/17 12:00	13.595	13.607	13.613	13.613	13.661	13.600	13.607
9/19/17 14:00	13.565	13.566	13.576	13.575	13.625	13.564	13.570

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
9/19/17 16:00	13.538	13.533	13.545	13.544	13.590	13.533	13.540
9/19/17 18:00	13.509	13.523	13.528	13.528	13.580	13.516	13.524
9/19/17 20:00	13.516	13.535	13.543	13.540	13.591	13.530	13.538
9/19/17 22:00	13.527	13.546	13.559	13.558	13.606	13.547	13.554
9/20/17 0:00	13.575	13.600	13.607	13.605	13.657	13.594	13.602
9/20/17 2:00	13.609	13.632	13.641	13.638	13.688	13.629	13.637
9/20/17 4:00	13.632	13.653	13.666	13.666	13.712	13.654	13.662
9/20/17 6:00	13.650	13.680	13.685	13.685	13.736	13.673	13.682
9/20/17 8:00	13.684	13.707	13.718	13.716	13.768	13.706	13.714
9/20/17 10:00	13.707	13.724	13.738	13.737	13.782	13.725	13.733
9/20/17 12:00	13.705	13.725	13.730	13.730	13.778	13.717	13.726
9/20/17 14:00	13.697	13.710	13.720	13.718	13.767	13.707	13.714
9/20/17 16:00	13.692	13.699	13.711	13.711	13.754	13.699	13.706
9/20/17 18:00	13.681	13.698	13.704	13.703	13.756	13.691	13.699
9/20/17 20:00	13.676	13.701	13.710	13.708	13.758	13.698	13.706
9/20/17 22:00	13.686	13.709	13.722	13.721	13.768	13.709	13.717
9/21/17 0:00	13.678	13.707	13.713	13.714	13.764	13.701	13.709
9/21/17 2:00	13.677	13.703	13.712	13.711	13.759	13.701	13.708
9/21/17 4:00	13.654	13.677	13.691	13.690	13.735	13.678	13.685
9/21/17 6:00	13.650	13.680	13.684	13.684	13.733	13.672	13.680
9/21/17 8:00	13.651	13.676	13.686	13.684	13.736	13.673	13.680
9/21/17 10:00	13.653	13.669	13.682	13.681	13.726	13.670	13.677
9/21/17 12:00	13.648	13.662	13.667	13.666	13.717	13.654	13.662
9/21/17 14:00	13.629	13.630	13.639	13.637	13.691	13.627	13.633
9/21/17 16:00	13.612	13.604	13.617	13.615	13.659	13.604	13.610
9/21/17 18:00	13.594	13.601	13.606	13.606	13.659	13.594	13.603
9/21/17 20:00	13.590	13.605	13.615	13.613	13.663	13.603	13.610
9/21/17 22:00	13.609	13.624	13.636	13.635	13.680	13.624	13.631
9/22/17 0:00	13.620	13.641	13.647	13.646	13.698	13.635	13.642
9/22/17 2:00	13.628	13.648	13.657	13.656	13.705	13.645	13.652
9/22/17 4:00	13.628	13.644	13.658	13.657	13.705	13.645	13.653
9/22/17 6:00	13.634	13.659	13.664	13.664	13.716	13.653	13.660
9/22/17 8:00	13.640	13.663	13.672	13.670	13.721	13.660	13.667
9/22/17 10:00	13.654	13.666	13.679	13.679	13.725	13.666	13.674
9/22/17 12:00	13.661	13.670	13.675	13.674	13.725	13.664	13.671
9/22/17 14:00	13.654	13.656	13.664	13.662	13.714	13.652	13.659
9/22/17 16:00	13.639	13.643	13.656	13.655	13.701	13.644	13.651
9/22/17 18:00	13.638	13.653	13.658	13.658	13.708	13.646	13.655
9/22/17 20:00	13.641	13.657	13.667	13.664	13.715	13.655	13.662
9/22/17 22:00	13.663	13.680	13.692	13.691	13.735	13.679	13.688
9/23/17 0:00	13.672	13.697	13.702	13.702	13.754	13.689	13.697
9/23/17 2:00	13.678	13.700	13.709	13.707	13.755	13.697	13.704
9/23/17 4:00	13.681	13.700	13.713	13.713	13.755	13.700	13.709
9/23/17 6:00	13.684	13.711	13.717	13.716	13.767	13.704	13.712
9/23/17 8:00	13.692	13.717	13.727	13.724	13.772	13.714	13.721
9/23/17 10:00	13.700	13.713	13.725	13.724	13.769	13.712	13.719
9/23/17 12:00	13.715	13.727	13.731	13.731	13.782	13.719	13.727

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
9/23/17 14:00	13.689	13.697	13.707	13.705	13.756	13.695	13.702
9/23/17 16:00	13.670	13.671	13.683	13.681	13.728	13.670	13.677
9/23/17 18:00	13.666	13.682	13.688	13.687	13.736	13.676	13.683
9/23/17 20:00	13.668	13.685	13.695	13.693	13.744	13.683	13.690
9/23/17 22:00	13.670	13.688	13.701	13.699	13.744	13.688	13.696
9/24/17 0:00	13.679	13.705	13.710	13.710	13.761	13.698	13.706
9/24/17 2:00	13.683	13.707	13.716	13.714	13.763	13.703	13.710
9/24/17 4:00	13.677	13.695	13.708	13.706	13.751	13.696	13.703
9/24/17 6:00	13.676	13.700	13.706	13.705	13.758	13.694	13.703
9/24/17 8:00	13.687	13.710	13.719	13.717	13.767	13.707	13.715
9/24/17 10:00	13.707	13.727	13.740	13.738	13.786	13.727	13.735
9/24/17 12:00	13.717	13.742	13.746	13.746	13.796	13.735	13.743
9/24/17 14:00	13.717	13.741	13.750	13.749	13.800	13.737	13.745
9/24/17 16:00	13.703	13.723	13.736	13.736	13.782	13.724	13.732
9/24/17 18:00	13.703	13.730	13.735	13.734	13.784	13.721	13.730
9/24/17 20:00	13.697	13.720	13.730	13.728	13.780	13.718	13.726
9/24/17 22:00	13.708	13.731	13.743	13.742	13.788	13.731	13.740
9/25/17 0:00	13.715	13.735	13.744	13.742	13.799	13.734	13.742
9/25/17 2:00	13.704	13.726	13.736	13.734	13.782	13.724	13.733
9/25/17 4:00	13.712	13.732	13.745	13.745	13.787	13.731	13.741
9/25/17 6:00	13.709	13.732	13.736	13.738	13.792	13.724	13.737
9/25/17 8:00	13.698	13.722	13.733	13.735	13.771	13.720	13.727
9/25/17 10:00	13.726	13.727	13.740	13.745	13.786	13.726	13.744
9/25/17 12:00	13.731	13.744	13.731	13.748	13.798	13.718	13.745
9/25/17 14:00	13.735	13.733	13.748	13.749	13.792	13.736	13.747
9/25/17 16:00	13.722	13.728	13.739	13.742	13.787	13.726	13.741
9/25/17 18:00	13.733	13.753	13.743	13.754	13.805	13.731	13.751
9/25/17 20:00	13.744	13.744	13.758	13.758	13.805	13.746	13.757
9/25/17 22:00	13.763	13.772	13.781	13.786	13.828	13.768	13.782
9/26/17 0:00	13.774	13.794	13.784	13.796	13.848	13.771	13.792
9/26/17 2:00	13.781	13.783	13.798	13.795	13.841	13.784	13.794
9/26/17 4:00	13.783	13.793	13.802	13.806	13.847	13.789	13.803
9/26/17 6:00	13.792	13.812	13.805	13.814	13.868	13.792	13.812
9/26/17 8:00	13.813	13.819	13.833	13.832	13.875	13.820	13.829
9/26/17 10:00	13.831	13.838	13.849	13.852	13.901	13.837	13.850
9/26/17 12:00	13.835	13.857	13.848	13.858	13.909	13.836	13.855
9/26/17 14:00	13.826	13.831	13.846	13.842	13.886	13.835	13.841
9/26/17 16:00	13.818	13.821	13.833	13.836	13.880	13.827	13.834
9/26/17 18:00	13.808	13.829	13.822	13.830	13.880	13.818	13.827
9/26/17 20:00	13.822	13.828	13.844	13.840	13.887	13.837	13.838
9/26/17 22:00	13.834	13.843	13.855	13.857	13.901	13.849	13.855
9/27/17 0:00	13.840	13.863	13.855	13.865	13.919	13.852	13.861
9/27/17 2:00	13.845	13.850	13.865	13.862	13.908	13.859	13.862
9/27/17 4:00	13.849	13.862	13.872	13.875	13.916	13.864	13.871
9/27/17 6:00	13.862	13.885	13.879	13.887	13.939	13.874	13.884
9/27/17 8:00	13.874	13.882	13.895	13.894	13.938	13.889	13.892
9/27/17 10:00	13.887	13.898	13.909	13.912	13.956	13.901	13.907

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
9/27/17 12:00	13.891	13.908	13.901	13.910	13.960	13.895	13.906
9/27/17 14:00	13.879	13.879	13.893	13.891	13.934	13.886	13.889
9/27/17 16:00	13.870	13.870	13.882	13.884	13.928	13.878	13.881
9/27/17 18:00	13.866	13.882	13.877	13.884	13.935	13.877	13.882
9/27/17 20:00	13.861	13.869	13.884	13.882	13.927	13.880	13.880
9/27/17 22:00	13.866	13.879	13.890	13.892	13.935	13.886	13.889
9/28/17 0:00	13.869	13.893	13.887	13.895	13.945	13.887	13.892
9/28/17 2:00	13.872	13.879	13.894	13.893	13.939	13.891	13.891
9/28/17 4:00	13.873	13.886	13.898	13.900	13.942	13.893	13.896
9/28/17 6:00	13.875	13.899	13.893	13.900	13.955	13.892	13.898
9/28/17 8:00	13.887	13.895	13.910	13.907	13.952	13.906	13.905
9/28/17 10:00	13.894	13.905	13.916	13.918	13.960	13.912	13.915
9/28/17 12:00	13.887	13.902	13.898	13.905	13.957	13.896	13.901
9/28/17 14:00	13.871	13.870	13.886	13.882	13.925	13.880	13.881
9/28/17 16:00	13.855	13.857	13.870	13.872	13.915	13.864	13.867
9/28/17 18:00	13.846	13.866	13.861	13.868	13.920	13.860	13.865
9/28/17 20:00	13.848	13.856	13.873	13.870	13.911	13.866	13.868
9/28/17 22:00	13.852	13.867	13.880	13.881	13.924	13.874	13.879
9/29/17 0:00	13.857	13.881	13.879	13.884	13.935	13.876	13.881
9/29/17 2:00	13.860	13.868	13.886	13.882	13.927	13.880	13.880
9/29/17 4:00	13.859	13.873	13.886	13.888	13.928	13.880	13.884
9/29/17 6:00	13.860	13.884	13.882	13.889	13.941	13.879	13.884
9/29/17 8:00	13.866	13.876	13.892	13.889	13.933	13.886	13.888
9/29/17 10:00	13.873	13.885	13.899	13.900	13.940	13.892	13.897
9/29/17 12:00	13.878	13.896	13.894	13.899	13.952	13.890	13.896
9/29/17 14:00	13.861	13.862	13.879	13.876	13.918	13.873	13.873
9/29/17 16:00	13.852	13.860	13.874	13.876	13.919	13.867	13.872
9/29/17 18:00	13.840	13.861	13.859	13.864	13.915	13.855	13.860
9/29/17 20:00	13.837	13.845	13.861	13.859	13.900	13.856	13.857
9/29/17 22:00	13.850	13.861	13.876	13.877	13.920	13.869	13.875
9/30/17 0:00	13.845	13.868	13.865	13.872	13.922	13.863	13.868
9/30/17 2:00	13.844	13.853	13.870	13.866	13.913	13.863	13.865
9/30/17 4:00	13.837	13.851	13.865	13.866	13.906	13.857	13.862
9/30/17 6:00	13.828	13.852	13.849	13.855	13.904	13.846	13.851
9/30/17 8:00	13.831	13.840	13.856	13.853	13.900	13.850	13.852
9/30/17 10:00	13.824	13.837	13.851	13.852	13.893	13.843	13.849
9/30/17 12:00	13.812	13.832	13.829	13.834	13.887	13.825	13.831
9/30/17 14:00	13.783	13.788	13.804	13.801	13.844	13.798	13.799
9/30/17 16:00	13.758	13.765	13.779	13.781	13.823	13.772	13.777
9/30/17 18:00	13.738	13.760	13.757	13.762	13.814	13.753	13.759
9/30/17 20:00	13.738	13.744	13.761	13.758	13.801	13.755	13.756
9/30/17 22:00	13.742	13.754	13.768	13.770	13.812	13.761	13.766
10/1/17 0:00	13.724	13.749	13.745	13.751	13.801	13.742	13.748
10/1/17 2:00	13.709	13.719	13.735	13.732	13.777	13.729	13.729
10/1/17 4:00	13.690	13.704	13.718	13.719	13.760	13.710	13.715
10/1/17 6:00	13.671	13.696	13.693	13.699	13.748	13.690	13.696
10/1/17 8:00	13.664	13.672	13.689	13.685	13.730	13.683	13.684

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
10/1/17 10:00	13.656	13.667	13.680	13.681	13.722	13.673	13.678
10/1/17 12:00	13.647	13.665	13.662	13.667	13.719	13.657	13.663
10/1/17 14:00	13.623	13.628	13.642	13.641	13.683	13.636	13.637
10/1/17 16:00	13.602	13.607	13.621	13.621	13.666	13.614	13.618
10/1/17 18:00	13.581	13.600	13.597	13.603	13.655	13.594	13.600
10/1/17 20:00	13.597	13.524	13.544	13.547	13.564	13.529	13.534
10/1/17 22:00	13.552	13.425	13.458	13.473	13.494	13.445	13.474
10/2/17 0:00	13.606	13.547	13.515	13.547	13.594	13.500	13.542
10/2/17 2:00	13.614	13.492	13.531	13.521	13.557	13.516	13.524
10/2/17 4:00	13.622	13.554	13.573	13.578	13.619	13.557	13.579
10/2/17 6:00	13.639	13.621	13.590	13.606	13.673	13.576	13.605
10/2/17 8:00	13.651	13.603	13.627	13.609	13.663	13.612	13.610
10/2/17 10:00	13.661	13.633	13.646	13.643	13.692	13.632	13.642
10/2/17 12:00	13.662	13.661	13.633	13.643	13.715	13.619	13.641
10/2/17 14:00	13.655	13.618	13.638	13.620	13.676	13.623	13.620
10/2/17 16:00	13.639	13.613	13.627	13.623	13.671	13.624	13.620
10/2/17 18:00	13.626	13.627	13.605	13.610	13.679	13.605	13.608
10/2/17 20:00	13.620	13.588	13.605	13.587	13.643	13.590	13.589
10/2/17 22:00	13.636	13.616	13.629	13.623	13.676	13.614	13.622
10/3/17 0:00	13.638	13.453	13.407	13.439	13.502	13.394	13.434
10/3/17 2:00	13.667	13.407	13.462	13.430	13.468	13.454	13.434
10/3/17 4:00	13.699	13.515	13.533	13.537	13.589	13.524	13.543
10/3/17 6:00	13.730	13.659	13.591	13.616	13.707	13.584	13.615
10/3/17 8:00	13.769	13.664	13.689	13.652	13.724	13.681	13.657
10/3/17 10:00	13.813	13.753	13.761	13.750	13.814	13.752	13.751
10/3/17 12:00	13.835	13.813	13.763	13.773	13.861	13.755	13.772
10/3/17 14:00	13.845	13.785	13.803	13.766	13.842	13.810	13.773
10/3/17 16:00	13.851	13.810	13.819	13.806	13.868	13.823	13.807
10/3/17 18:00	13.857	13.850	13.813	13.815	13.901	13.840	13.815
10/3/17 20:00	13.875	13.835	13.853	13.821	13.891	13.872	13.826
10/3/17 22:00	13.895	13.869	13.880	13.866	13.930	13.895	13.868
10/4/17 0:00	13.905	13.904	13.872	13.873	13.956	13.897	13.875
10/4/17 2:00	13.908	13.858	13.872	13.843	13.913	13.861	13.849
10/4/17 4:00	13.914	13.876	13.882	13.872	13.940	13.871	13.875
10/4/17 6:00	13.924	13.918	13.875	13.882	13.969	13.864	13.883
10/4/17 8:00	13.929	13.887	13.900	13.869	13.948	13.889	13.876
10/4/17 10:00	13.929	13.904	13.910	13.899	13.963	13.899	13.899
10/4/17 12:00	13.925	13.925	13.887	13.891	13.974	13.892	13.892
10/4/17 14:00	13.886	13.851	13.866	13.836	13.908	13.867	13.841
10/4/17 16:00	13.875	13.851	13.859	13.848	13.909	13.859	13.849
10/4/17 18:00	13.856	13.860	13.825	13.827	13.912	13.836	13.829
10/4/17 20:00	13.853	13.824	13.839	13.811	13.879	13.849	13.817
10/4/17 22:00	13.850	13.830	13.841	13.830	13.888	13.844	13.830
10/5/17 0:00	13.834	13.840	13.806	13.809	13.892	13.817	13.810
10/5/17 2:00	13.817	13.789	13.804	13.777	13.845	13.807	13.783
10/5/17 4:00	13.806	13.786	13.796	13.785	13.848	13.796	13.788
10/5/17 6:00	13.798	13.802	13.768	13.773	13.854	13.767	13.775

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
10/5/17 8:00	13.787	13.758	13.771	13.747	13.818	13.761	13.754
10/5/17 10:00	13.779	13.760	13.768	13.760	13.820	13.757	13.762
10/5/17 12:00	13.773	13.777	13.742	13.747	13.829	13.733	13.749
10/5/17 14:00	13.752	13.719	13.733	13.708	13.779	13.724	13.714
10/5/17 16:00	13.740	13.718	13.727	13.718	13.778	13.716	13.720
10/5/17 18:00	13.739	13.742	13.708	13.713	13.795	13.702	13.716
10/5/17 20:00	13.735	13.705	13.721	13.696	13.765	13.721	13.702
10/5/17 22:00	13.743	13.724	13.735	13.724	13.782	13.734	13.725
10/6/17 0:00	13.736	13.741	13.708	13.712	13.794	13.712	13.714
10/6/17 2:00	13.726	13.698	13.712	13.689	13.755	13.702	13.695
10/6/17 4:00	13.698	13.678	13.687	13.680	13.740	13.675	13.681
10/6/17 6:00	13.678	13.684	13.650	13.656	13.736	13.640	13.658
10/6/17 8:00	13.664	13.635	13.648	13.626	13.697	13.640	13.633
10/6/17 10:00	13.659	13.639	13.647	13.640	13.699	13.637	13.641
10/6/17 12:00	13.642	13.646	13.611	13.618	13.697	13.602	13.619
10/6/17 14:00	13.614	13.584	13.598	13.575	13.642	13.588	13.580
10/6/17 16:00	13.586	13.567	13.577	13.568	13.626	13.573	13.569
10/6/17 18:00	13.568	13.573	13.543	13.545	13.628	13.546	13.548
10/6/17 20:00	13.584	13.282	13.358	13.340	13.339	13.353	13.348
10/6/17 22:00	13.593	13.398	13.426	13.435	13.462	13.464	13.437
10/7/17 0:00	13.582	13.509	13.434	13.472	13.558	13.452	13.473
10/7/17 2:00	13.593	13.474	13.508	13.471	13.535	13.511	13.481
10/7/17 4:00	13.596	13.535	13.540	13.531	13.601	13.536	13.534
10/7/17 6:00	13.598	13.577	13.521	13.536	13.628	13.521	13.539
10/7/17 8:00	13.602	13.534	13.556	13.521	13.596	13.553	13.529
10/7/17 10:00	13.617	13.581	13.585	13.573	13.643	13.580	13.575
10/7/17 12:00	13.626	13.614	13.567	13.576	13.663	13.582	13.578
10/7/17 14:00	13.616	13.560	13.581	13.548	13.619	13.588	13.555
10/7/17 16:00	13.608	13.573	13.581	13.568	13.632	13.596	13.570
10/7/17 18:00	13.601	13.592	13.556	13.563	13.647	13.588	13.565
10/7/17 20:00	13.590	13.552	13.573	13.544	13.610	13.592	13.552
10/7/17 22:00	13.590	13.568	13.579	13.568	13.627	13.593	13.570
10/8/17 0:00	13.587	13.590	13.556	13.562	13.642	13.584	13.564
10/8/17 2:00	13.583	13.550	13.572	13.544	13.609	13.587	13.551
10/8/17 4:00	13.573	13.556	13.566	13.556	13.618	13.578	13.558
10/8/17 6:00	13.576	13.580	13.549	13.554	13.634	13.572	13.556
10/8/17 8:00	13.584	13.555	13.576	13.550	13.611	13.588	13.556
10/8/17 10:00	13.597	13.578	13.589	13.579	13.639	13.598	13.581
10/8/17 12:00	13.593	13.594	13.563	13.568	13.644	13.582	13.569
10/8/17 14:00	13.573	13.535	13.557	13.532	13.595	13.566	13.538
10/8/17 16:00	13.567	13.538	13.550	13.540	13.598	13.557	13.543
10/8/17 18:00	13.559	13.560	13.530	13.536	13.611	13.549	13.538
10/8/17 20:00	13.570	13.540	13.560	13.536	13.600	13.571	13.544
10/8/17 22:00	13.609	13.591	13.603	13.594	13.652	13.610	13.597
10/9/17 0:00	13.638	13.643	13.614	13.620	13.698	13.633	13.624
10/9/17 2:00	13.651	13.625	13.646	13.623	13.684	13.655	13.629
10/9/17 4:00	13.663	13.650	13.661	13.654	13.707	13.667	13.654

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
10/9/17 6:00	13.686	13.696	13.667	13.672	13.749	13.683	13.674
10/9/17 8:00	13.722	13.696	13.718	13.695	13.756	13.725	13.703
10/9/17 10:00	13.768	13.754	13.766	13.757	13.817	13.771	13.760
10/9/17 12:00	13.770	13.785	13.757	13.764	13.835	13.771	13.765
10/9/17 14:00	13.773	13.750	13.770	13.748	13.806	13.776	13.754
10/9/17 16:00	13.786	13.773	13.786	13.778	13.833	13.791	13.780
10/9/17 18:00	13.814	13.822	13.796	13.800	13.875	13.809	13.803
10/9/17 20:00	13.851	13.828	13.847	13.827	13.889	13.849	13.833
10/9/17 22:00	13.867	13.852	13.865	13.858	13.914	13.867	13.860
10/10/17 0:00	13.891	13.900	13.873	13.878	13.956	13.879	13.881
10/10/17 2:00	13.884	13.858	13.879	13.857	13.919	13.881	13.864
10/10/17 4:00	13.889	13.876	13.888	13.880	13.936	13.887	13.882
10/10/17 6:00	13.885	13.895	13.867	13.872	13.950	13.874	13.874
10/10/17 8:00	13.894	13.871	13.892	13.869	13.931	13.895	13.877
10/10/17 10:00	13.893	13.882	13.895	13.886	13.946	13.898	13.887
10/10/17 12:00	13.892	13.902	13.875	13.879	13.957	13.886	13.882
10/10/17 14:00	13.878	13.857	13.877	13.855	13.915	13.880	13.861
10/10/17 16:00	13.861	13.844	13.857	13.848	13.906	13.861	13.852
10/10/17 18:00	13.851	13.860	13.835	13.839	13.913	13.847	13.841
10/10/17 20:00	13.853	13.832	13.853	13.832	13.894	13.858	13.839
10/10/17 22:00	13.849	13.838	13.851	13.843	13.898	13.855	13.845
10/11/17 0:00	13.850	13.860	13.835	13.839	13.912	13.847	13.842
10/11/17 2:00	13.846	13.823	13.845	13.823	13.883	13.849	13.829
10/11/17 4:00	13.834	13.822	13.836	13.828	13.881	13.839	13.830
10/11/17 6:00	13.826	13.838	13.813	13.817	13.893	13.825	13.819
10/11/17 8:00	13.827	13.806	13.827	13.806	13.865	13.832	13.812
10/11/17 10:00	13.821	13.813	13.825	13.818	13.871	13.827	13.819
10/11/17 12:00	13.810	13.821	13.796	13.799	13.873	13.805	13.801
10/11/17 14:00	13.780	13.757	13.777	13.756	13.814	13.780	13.763
10/11/17 16:00	13.761	13.744	13.758	13.750	13.806	13.759	13.752
10/11/17 18:00	13.754	13.763	13.738	13.744	13.816	13.749	13.746
10/11/17 20:00	13.752	13.734	13.754	13.733	13.793	13.757	13.739
10/11/17 22:00	13.757	13.746	13.760	13.753	13.807	13.763	13.755
10/12/17 0:00	13.754	13.765	13.742	13.746	13.817	13.753	13.749
10/12/17 2:00	13.734	13.717	13.736	13.716	13.776	13.739	13.722
10/12/17 4:00	13.719	13.709	13.722	13.716	13.769	13.724	13.718
10/12/17 6:00	13.714	13.726	13.702	13.706	13.781	13.711	13.709
10/12/17 8:00	13.712	13.693	13.713	13.693	13.752	13.715	13.699
10/12/17 10:00	13.703	13.694	13.707	13.700	13.752	13.708	13.701
10/12/17 12:00	13.695	13.703	13.679	13.683	13.756	13.686	13.686
10/12/17 14:00	13.675	13.647	13.667	13.648	13.705	13.670	13.654
10/12/17 16:00	13.667	13.644	13.657	13.650	13.706	13.658	13.652
10/12/17 18:00	13.661	13.665	13.640	13.645	13.718	13.650	13.648
10/12/17 20:00	13.661	13.643	13.662	13.643	13.699	13.665	13.650
10/12/17 22:00	13.667	13.655	13.669	13.663	13.717	13.670	13.665
10/13/17 0:00	13.682	13.695	13.672	13.676	13.746	13.679	13.677
10/13/17 2:00	13.693	13.675	13.695	13.676	13.734	13.696	13.682

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
10/13/17 4:00	13.704	13.696	13.709	13.702	13.756	13.710	13.705
10/13/17 6:00	13.730	13.742	13.718	13.722	13.797	13.726	13.725
10/13/17 8:00	13.752	13.735	13.754	13.736	13.793	13.756	13.742
10/13/17 10:00	13.760	13.752	13.767	13.760	13.811	13.767	13.761
10/13/17 12:00	13.761	13.771	13.748	13.751	13.826	13.755	13.755
10/13/17 14:00	13.754	13.737	13.757	13.738	13.794	13.758	13.743
10/13/17 16:00	13.750	13.738	13.752	13.745	13.799	13.752	13.747
10/13/17 18:00	13.748	13.761	13.737	13.742	13.813	13.745	13.744
10/13/17 20:00	13.754	13.737	13.757	13.738	13.794	13.758	13.743
10/13/17 22:00	13.753	13.744	13.758	13.751	13.805	13.758	13.754
10/14/17 0:00	13.752	13.765	13.742	13.746	13.818	13.749	13.749
10/14/17 2:00	13.727	13.708	13.728	13.709	13.766	13.729	13.717
10/14/17 4:00	13.717	13.709	13.721	13.715	13.769	13.721	13.718
10/14/17 6:00	13.704	13.718	13.695	13.699	13.771	13.701	13.702
10/14/17 8:00	13.689	13.672	13.691	13.673	13.733	13.693	13.680
10/14/17 10:00	13.673	13.665	13.678	13.672	13.724	13.674	13.674
10/14/17 12:00	13.671	13.683	13.658	13.664	13.738	13.660	13.666
10/14/17 14:00	13.677	13.657	13.678	13.659	13.718	13.676	13.666
10/14/17 16:00	13.703	13.692	13.706	13.698	13.751	13.705	13.701
10/14/17 18:00	13.739	13.742	13.720	13.724	13.799	13.729	13.728
10/14/17 20:00	13.797	13.780	13.802	13.783	13.840	13.803	13.788
10/14/17 22:00	13.845	13.835	13.848	13.843	13.898	13.849	13.845
10/15/17 0:00	13.864	13.874	13.853	13.857	13.931	13.860	13.860
10/15/17 2:00	13.878	13.861	13.882	13.864	13.920	13.884	13.871
10/15/17 4:00	13.891	13.882	13.896	13.890	13.943	13.896	13.892
10/15/17 6:00	13.914	13.928	13.906	13.911	13.980	13.914	13.912
10/15/17 8:00	13.933	13.915	13.935	13.918	13.977	13.938	13.924
10/15/17 10:00	13.951	13.944	13.958	13.951	14.005	13.957	13.953
10/15/17 12:00	13.951	13.967	13.944	13.948	14.018	13.950	13.950
10/15/17 14:00	13.928	13.912	13.932	13.914	13.971	13.931	13.919
10/15/17 16:00	13.911	13.902	13.917	13.911	13.960	13.916	13.912
10/15/17 18:00	13.903	13.917	13.895	13.900	13.971	13.903	13.902
10/15/17 20:00	13.907	13.893	13.912	13.894	13.951	13.914	13.901
10/15/17 22:00	13.911	13.904	13.919	13.913	13.966	13.918	13.914
10/16/17 0:00	13.915	13.931	13.909	13.913	13.984	13.916	13.915
10/16/17 2:00	13.913	13.901	13.919	13.901	13.957	13.919	13.908
10/16/17 4:00	13.904	13.898	13.912	13.905	13.957	13.911	13.907
10/16/17 6:00	13.903	13.916	13.896	13.901	13.969	13.903	13.902
10/16/17 8:00	13.897	13.883	13.902	13.886	13.943	13.903	13.891
10/16/17 10:00	13.896	13.888	13.902	13.897	13.949	13.902	13.898
10/16/17 12:00	13.874	13.889	13.868	13.872	13.940	13.873	13.874
10/16/17 14:00	13.839	13.821	13.840	13.823	13.881	13.840	13.829
10/16/17 16:00	13.810	13.801	13.814	13.808	13.858	13.812	13.810
10/16/17 18:00	13.797	13.809	13.788	13.793	13.864	13.794	13.795
10/16/17 20:00	13.797	13.783	13.803	13.786	13.842	13.804	13.792
10/16/17 22:00	13.797	13.789	13.804	13.798	13.852	13.803	13.800
10/17/17 0:00	13.797	13.812	13.791	13.796	13.866	13.797	13.798

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
10/17/17 2:00	13.792	13.778	13.797	13.780	13.836	13.798	13.787
10/17/17 4:00	13.784	13.777	13.791	13.785	13.837	13.790	13.787
10/17/17 6:00	13.789	13.803	13.783	13.787	13.856	13.788	13.789
10/17/17 8:00	13.793	13.780	13.799	13.783	13.840	13.799	13.788
10/17/17 10:00	13.798	13.784	13.801	13.796	13.844	13.802	13.798
10/17/17 12:00	13.792	13.803	13.780	13.786	13.854	13.787	13.788
10/17/17 14:00	13.775	13.748	13.773	13.755	13.806	13.773	13.760
10/17/17 16:00	13.754	13.735	13.754	13.747	13.803	13.754	13.750
10/17/17 18:00	13.738	13.751	13.727	13.733	13.803	13.744	13.734
10/17/17 20:00	13.739	13.722	13.742	13.724	13.778	13.750	13.731
10/17/17 22:00	13.740	13.733	13.746	13.740	13.788	13.753	13.742
10/18/17 0:00	13.731	13.746	13.722	13.729	13.797	13.741	13.730
10/18/17 2:00	13.721	13.705	13.725	13.707	13.758	13.734	13.713
10/18/17 4:00	13.715	13.706	13.720	13.714	13.766	13.727	13.717
10/18/17 6:00	13.714	13.727	13.704	13.710	13.777	13.722	13.712
10/18/17 8:00	13.717	13.701	13.720	13.702	13.758	13.729	13.709
10/18/17 10:00	13.723	13.716	13.728	13.723	13.772	13.735	13.725
10/18/17 12:00	13.729	13.741	13.717	13.723	13.789	13.734	13.725
10/18/17 14:00	13.723	13.713	13.727	13.711	13.761	13.736	13.720
10/18/17 16:00	13.725	13.721	13.730	13.726	13.773	13.738	13.749
10/18/17 18:00	13.736	13.734	13.709	13.707	13.800	13.706	13.712
10/18/17 20:00	13.762	13.724	13.754	13.723	13.803	13.748	13.732
10/18/17 22:00	13.772	13.744	13.767	13.752	13.825	13.760	13.756
10/19/17 0:00	13.769	13.773	13.748	13.747	13.847	13.745	13.752
10/19/17 2:00	13.767	13.733	13.761	13.730	13.818	13.755	13.741
10/19/17 4:00	13.762	13.732	13.743	13.747	13.817	13.741	13.753
10/19/17 6:00	13.763	13.768	13.743	13.741	13.832	13.740	13.746
10/19/17 8:00	13.765	13.731	13.760	13.730	13.798	13.753	13.739
10/19/17 10:00	13.775	13.750	13.770	13.758	13.819	13.764	13.761
10/19/17 12:00	13.766	13.769	13.744	13.744	13.828	13.740	13.747
10/19/17 14:00	13.745	13.706	13.734	13.704	13.776	13.727	13.714
10/19/17 16:00	13.720	13.687	13.710	13.695	13.756	13.702	13.700
10/19/17 18:00	13.714	13.713	13.688	13.688	13.773	13.684	13.693
10/19/17 20:00	13.714	13.679	13.708	13.680	13.746	13.701	13.689
10/19/17 22:00	13.717	13.692	13.714	13.700	13.760	13.706	13.705
10/20/17 0:00	13.721	13.727	13.702	13.702	13.782	13.698	13.706
10/20/17 2:00	13.713	13.679	13.708	13.680	13.741	13.701	13.690
10/20/17 4:00	13.697	13.669	13.680	13.686	13.731	13.676	13.690
10/20/17 6:00	13.686	13.692	13.667	13.667	13.745	13.663	13.672
10/20/17 8:00	13.675	13.642	13.670	13.643	13.705	13.663	13.652
10/20/17 10:00	13.661	13.637	13.658	13.646	13.701	13.650	13.650
10/20/17 12:00	13.628	13.631	13.606	13.607	13.685	13.601	13.611
10/20/17 14:00	13.601	13.559	13.588	13.560	13.620	13.580	13.569
10/20/17 16:00	13.581	13.545	13.567	13.554	13.610	13.558	13.558
10/20/17 18:00	13.562	13.561	13.537	13.537	13.614	13.533	13.541
10/20/17 20:00	13.559	13.525	13.553	13.526	13.585	13.546	13.536
10/20/17 22:00	13.553	13.529	13.550	13.537	13.592	13.542	13.542

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
10/21/17 0:00	13.533	13.539	13.514	13.518	13.589	13.510	13.522
10/21/17 2:00	13.524	13.492	13.520	13.493	13.554	13.513	13.503
10/21/17 4:00	13.518	13.491	13.503	13.509	13.551	13.498	13.514
10/21/17 6:00	13.519	13.526	13.501	13.502	13.580	13.497	13.506
10/21/17 8:00	13.543	13.510	13.538	13.512	13.568	13.530	13.520
10/21/17 10:00	13.594	13.571	13.592	13.580	13.634	13.583	13.585
10/21/17 12:00	13.639	13.643	13.620	13.621	13.695	13.614	13.626
10/21/17 14:00	13.668	13.635	13.663	13.639	13.693	13.655	13.648
10/21/17 16:00	13.699	13.675	13.696	13.685	13.736	13.687	13.690
10/21/17 18:00	13.719	13.725	13.701	13.702	13.775	13.695	13.708
10/21/17 20:00	13.749	13.719	13.748	13.723	13.780	13.739	13.732
10/21/17 22:00	13.757	13.737	13.757	13.747	13.796	13.748	13.751
10/22/17 0:00	13.771	13.778	13.755	13.759	13.831	13.750	13.762
10/22/17 2:00	13.769	13.742	13.769	13.746	13.803	13.761	13.754
10/22/17 4:00	13.791	13.767	13.777	13.784	13.826	13.772	13.789
10/22/17 6:00	13.813	13.821	13.797	13.800	13.872	13.792	13.805
10/22/17 8:00	13.814	13.786	13.812	13.790	13.844	13.804	13.799
10/22/17 10:00	13.824	13.807	13.825	13.815	13.865	13.816	13.820
10/22/17 12:00	13.818	13.825	13.802	13.806	13.875	13.796	13.810
10/22/17 14:00	13.791	13.760	13.786	13.764	13.819	13.778	13.773
10/22/17 16:00	13.769	13.744	13.763	13.755	13.802	13.755	13.759
10/22/17 18:00	13.760	13.765	13.741	13.744	13.816	13.735	13.749
10/22/17 20:00	13.751	13.725	13.751	13.728	13.782	13.742	13.738
10/22/17 22:00	13.742	13.725	13.744	13.736	13.782	13.735	13.740
10/23/17 0:00	13.733	13.744	13.720	13.725	13.794	13.715	13.728
10/23/17 2:00	13.726	13.701	13.726	13.705	13.757	13.718	13.714
10/23/17 4:00	13.708	13.688	13.698	13.706	13.745	13.692	13.710
10/23/17 6:00	13.744	13.753	13.730	13.733	13.803	13.724	13.738
10/23/17 8:00	13.788	13.762	13.788	13.766	13.822	13.778	13.775
10/23/17 10:00	13.816	13.797	13.816	13.810	13.857	13.807	13.813
10/23/17 12:00	13.842	13.851	13.828	13.833	13.901	13.822	13.836
10/23/17 14:00	13.837	13.808	13.834	13.815	13.867	13.825	13.822
10/23/17 16:00	13.835	13.814	13.833	13.826	13.872	13.823	13.830
10/23/17 18:00	13.844	13.850	13.829	13.832	13.903	13.822	13.837
10/23/17 20:00	13.864	13.842	13.866	13.846	13.898	13.858	13.855
10/23/17 22:00	13.878	13.862	13.881	13.874	13.922	13.872	13.879
10/24/17 0:00	13.876	13.888	13.866	13.870	13.937	13.860	13.874
10/24/17 2:00	13.872	13.849	13.875	13.856	13.909	13.867	13.864
10/24/17 4:00	13.869	13.854	13.863	13.873	13.909	13.857	13.876
10/24/17 6:00	13.882	13.895	13.872	13.877	13.943	13.866	13.881
10/24/17 8:00	13.893	13.871	13.896	13.877	13.930	13.887	13.885
10/24/17 10:00	13.901	13.888	13.907	13.900	13.945	13.897	13.904
10/24/17 12:00	13.900	13.913	13.890	13.896	13.964	13.883	13.899
10/24/17 14:00	13.880	13.857	13.881	13.863	13.912	13.871	13.871
10/24/17 16:00	13.867	13.847	13.867	13.860	13.907	13.857	13.864
10/24/17 18:00	13.862	13.872	13.850	13.855	13.921	13.842	13.859
10/24/17 20:00	13.857	13.836	13.861	13.843	13.892	13.851	13.850

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
10/24/17 22:00	13.847	13.833	13.851	13.845	13.891	13.842	13.849
10/25/17 0:00	13.832	13.845	13.822	13.828	13.892	13.816	13.832
10/25/17 2:00	13.816	13.796	13.819	13.801	13.854	13.809	13.809
10/25/17 4:00	13.789	13.772	13.782	13.791	13.828	13.775	13.795
10/25/17 6:00	13.773	13.787	13.763	13.769	13.838	13.757	13.773
10/25/17 8:00	13.754	13.734	13.758	13.739	13.792	13.749	13.749
10/25/17 10:00	13.743	13.732	13.750	13.744	13.794	13.740	13.748
10/25/17 12:00	13.730	13.739	13.717	13.723	13.790	13.710	13.727
10/25/17 14:00	13.695	13.668	13.692	13.676	13.724	13.683	13.683
10/25/17 16:00	13.664	13.639	13.657	13.652	13.698	13.648	13.656
10/25/17 18:00	13.642	13.640	13.619	13.624	13.689	13.612	13.628
10/25/17 20:00	13.606	13.587	13.611	13.594	13.645	13.601	13.602
10/25/17 22:00	13.588	13.576	13.594	13.588	13.633	13.584	13.592
10/26/17 0:00	13.565	13.578	13.556	13.563	13.631	13.550	13.566
10/26/17 2:00	13.563	13.540	13.566	13.547	13.599	13.556	13.556
10/26/17 4:00	13.536	13.522	13.531	13.540	13.581	13.523	13.543
10/26/17 6:00	13.551	13.563	13.542	13.545	13.614	13.535	13.551
10/26/17 8:00	13.569	13.550	13.574	13.556	13.605	13.564	13.565
10/26/17 10:00	13.619	13.607	13.624	13.620	13.666	13.615	13.625
10/26/17 12:00	13.668	13.647	13.670	13.655	13.703	13.660	13.662
10/26/17 14:00	13.705	13.688	13.706	13.702	13.746	13.696	13.707
10/26/17 16:00	13.738	13.747	13.726	13.732	13.796	13.718	13.738
10/26/17 18:00	13.775	13.757	13.781	13.767	13.815	13.771	13.774
10/26/17 20:00	13.815	13.803	13.821	13.818	13.860	13.811	13.820
10/26/17 22:00	13.839	13.854	13.833	13.839	13.905	13.826	13.843
10/27/17 0:00	13.858	13.841	13.863	13.848	13.897	13.853	13.857
10/27/17 2:00	13.855	13.844	13.862	13.858	13.900	13.852	13.862
10/27/17 4:00	13.848	13.862	13.841	13.847	13.912	13.834	13.851
10/27/17 6:00	13.849	13.832	13.854	13.839	13.887	13.844	13.846
10/27/17 8:00	13.847	13.834	13.853	13.847	13.892	13.842	13.851
10/27/17 10:00	13.850	13.865	13.844	13.851	13.913	13.836	13.854
10/27/17 12:00	13.849	13.832	13.854	13.840	13.890	13.845	13.848
10/27/17 14:00	13.822	13.812	13.830	13.827	13.869	13.819	13.830
10/27/17 16:00	13.809	13.824	13.803	13.808	13.870	13.794	13.813
10/27/17 18:00	13.811	13.795	13.817	13.803	13.852	13.807	13.811
10/27/17 20:00	13.826	13.816	13.834	13.830	13.871	13.824	13.833
10/27/17 22:00	13.836	13.850	13.830	13.835	13.899	13.822	13.839
10/28/17 0:00	13.834	13.818	13.839	13.825	13.874	13.830	13.833
10/28/17 2:00	13.825	13.815	13.832	13.828	13.874	13.823	13.831
10/28/17 4:00	13.826	13.839	13.819	13.825	13.889	13.811	13.829
10/28/17 6:00	13.822	13.805	13.826	13.813	13.859	13.816	13.819
10/28/17 8:00	13.819	13.806	13.823	13.820	13.864	13.814	13.823
10/28/17 10:00	13.815	13.828	13.808	13.815	13.877	13.800	13.818
10/28/17 12:00	13.792	13.780	13.797	13.785	13.837	13.776	13.793
10/28/17 14:00	13.757	13.752	13.760	13.750	13.804	13.739	13.756
10/28/17 16:00	13.730	13.720	13.731	13.725	13.778	13.709	13.731
10/28/17 18:00	13.719	13.728	13.706	13.717	13.778	13.690	13.721

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
10/28/17 20:00	13.711	13.704	13.713	13.703	13.756	13.692	13.709
10/28/17 22:00	13.707	13.696	13.708	13.702	13.754	13.697	13.707
10/29/17 0:00	13.702	13.715	13.692	13.703	13.763	13.686	13.706
10/29/17 2:00	13.685	13.675	13.688	13.676	13.731	13.678	13.684
10/29/17 4:00	13.673	13.661	13.664	13.673	13.714	13.656	13.676
10/29/17 6:00	13.658	13.669	13.649	13.658	13.720	13.642	13.663
10/29/17 8:00	13.648	13.656	13.650	13.644	13.703	13.640	13.647
10/29/17 10:00	13.644	13.635	13.646	13.641	13.690	13.635	13.646
10/29/17 12:00	13.626	13.637	13.617	13.626	13.688	13.610	13.631
10/29/17 14:00	13.605	13.603	13.603	13.595	13.650	13.592	13.600
10/29/17 16:00	13.595	13.578	13.590	13.584	13.636	13.579	13.590
10/29/17 18:00	13.637	13.642	13.624	13.633	13.692	13.615	13.638
10/29/17 20:00	13.686	13.678	13.688	13.676	13.732	13.676	13.684
10/29/17 22:00	13.705	13.696	13.708	13.703	13.752	13.697	13.709
10/30/17 0:00	13.726	13.740	13.719	13.728	13.792	13.711	13.733
10/30/17 2:00	13.740	13.730	13.744	13.731	13.784	13.733	13.739
10/30/17 4:00	13.761	13.751	13.754	13.764	13.804	13.747	13.768
10/30/17 6:00	13.782	13.795	13.776	13.786	13.846	13.768	13.789
10/30/17 8:00	13.801	13.791	13.804	13.791	13.845	13.793	13.800
10/30/17 10:00	13.822	13.814	13.825	13.821	13.872	13.814	13.826
10/30/17 12:00	13.830	13.845	13.824	13.835	13.893	13.817	13.839
10/30/17 14:00	13.824	13.820	13.827	13.819	13.874	13.816	13.825
10/30/17 16:00	13.823	13.816	13.828	13.823	13.872	13.817	13.828
10/30/17 18:00	13.835	13.847	13.827	13.837	13.896	13.820	13.841
10/30/17 20:00	13.861	13.854	13.864	13.853	13.907	13.853	13.860
10/30/17 22:00	13.872	13.862	13.875	13.870	13.917	13.864	13.874
10/31/17 0:00	13.877	13.890	13.869	13.877	13.940	13.862	13.882
10/31/17 2:00	13.869	13.858	13.871	13.859	13.911	13.862	13.867
10/31/17 4:00	13.861	13.851	13.853	13.862	13.906	13.846	13.866
10/31/17 6:00	13.854	13.865	13.846	13.854	13.914	13.838	13.859
10/31/17 8:00	13.835	13.826	13.837	13.827	13.882	13.828	13.834
10/31/17 10:00	13.834	13.825	13.836	13.832	13.882	13.826	13.837
10/31/17 12:00	13.825	13.838	13.819	13.828	13.887	13.810	13.833
10/31/17 14:00	13.770	13.767	13.775	13.766	13.820	13.764	13.772
10/31/17 16:00	13.740	13.732	13.743	13.738	13.787	13.732	13.744
10/31/17 18:00	13.710	13.723	13.702	13.713	13.774	13.695	13.717
10/31/17 20:00	13.688	13.681	13.691	13.680	13.734	13.680	13.687
10/31/17 22:00	13.663	13.653	13.665	13.660	13.712	13.654	13.664
11/1/17 0:00	13.640	13.652	13.631	13.642	13.702	13.624	13.645
11/1/17 2:00	13.616	13.606	13.617	13.606	13.658	13.608	13.614
11/1/17 4:00	13.592	13.581	13.585	13.593	13.636	13.576	13.598
11/1/17 6:00	13.555	13.566	13.547	13.557	13.614	13.539	13.560
11/1/17 8:00	13.554	13.543	13.556	13.543	13.599	13.545	13.552
11/1/17 10:00	13.560	13.551	13.562	13.558	13.606	13.551	13.563
11/1/17 12:00	13.563	13.576	13.558	13.566	13.628	13.550	13.571
11/1/17 14:00	13.542	13.539	13.546	13.537	13.590	13.534	13.542
11/1/17 16:00	13.528	13.518	13.530	13.526	13.577	13.519	13.530

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
11/1/17 18:00	13.533	13.545	13.526	13.535	13.596	13.519	13.541
11/1/17 20:00	13.540	13.536	13.544	13.535	13.587	13.533	13.541
11/1/17 22:00	13.543	13.535	13.547	13.542	13.592	13.536	13.547
11/2/17 0:00	13.552	13.566	13.545	13.556	13.615	13.538	13.559
11/2/17 2:00	13.558	13.548	13.561	13.550	13.604	13.551	13.558
11/2/17 4:00	13.591	13.581	13.584	13.593	13.634	13.576	13.598
11/2/17 6:00	13.622	13.635	13.617	13.626	13.687	13.609	13.630
11/2/17 8:00	13.667	13.658	13.670	13.659	13.712	13.659	13.667
11/2/17 10:00	13.719	13.710	13.724	13.717	13.766	13.712	13.724
11/2/17 12:00	13.759	13.773	13.755	13.763	13.824	13.746	13.768
11/2/17 14:00	13.755	13.754	13.761	13.752	13.805	13.750	13.759
11/2/17 16:00	13.766	13.756	13.769	13.763	13.814	13.757	13.770
11/2/17 18:00	13.787	13.798	13.780	13.789	13.849	13.772	13.794
11/2/17 20:00	13.817	13.812	13.822	13.812	13.862	13.810	13.818
11/2/17 22:00	13.834	13.825	13.838	13.832	13.882	13.827	13.837
11/3/17 0:00	13.843	13.858	13.837	13.847	13.906	13.829	13.850
11/3/17 2:00	13.846	13.835	13.851	13.837	13.892	13.839	13.846
11/3/17 4:00	13.845	13.833	13.839	13.848	13.889	13.830	13.852
11/3/17 6:00	13.867	13.881	13.861	13.871	13.928	13.854	13.875
11/3/17 8:00	13.866	13.858	13.871	13.859	13.913	13.860	13.867
11/3/17 10:00	13.860	13.852	13.865	13.860	13.907	13.853	13.864
11/3/17 12:00	13.842	13.859	13.839	13.848	13.909	13.831	13.853
11/3/17 14:00	13.799	13.798	13.806	13.796	13.849	13.795	13.803
11/3/17 16:00	13.764	13.756	13.769	13.763	13.815	13.758	13.770
11/3/17 18:00	13.758	13.771	13.752	13.762	13.822	13.745	13.766
11/3/17 20:00	13.759	13.754	13.765	13.754	13.806	13.753	13.762
11/3/17 22:00	13.756	13.748	13.760	13.755	13.806	13.749	13.760
11/4/17 0:00	13.744	13.759	13.739	13.748	13.807	13.731	13.752
11/4/17 2:00	13.737	13.729	13.743	13.731	13.784	13.731	13.739
11/4/17 4:00	13.724	13.714	13.718	13.729	13.770	13.711	13.732
11/4/17 6:00	13.715	13.729	13.709	13.718	13.777	13.702	13.724
11/4/17 8:00	13.712	13.704	13.717	13.706	13.759	13.705	13.714
11/4/17 10:00	13.711	13.703	13.715	13.711	13.760	13.704	13.716
11/4/17 12:00	13.693	13.706	13.688	13.696	13.759	13.679	13.702
11/4/17 14:00	13.664	13.662	13.670	13.661	13.715	13.658	13.668
11/4/17 16:00	13.635	13.628	13.640	13.635	13.683	13.629	13.642
11/4/17 18:00	13.626	13.639	13.620	13.630	13.689	13.613	13.634
11/4/17 20:00	13.618	13.614	13.624	13.614	13.665	13.613	13.621
11/4/17 22:00	13.604	13.595	13.608	13.603	13.653	13.595	13.608
11/5/17 0:00	13.601	13.614	13.594	13.604	13.662	13.586	13.608
11/5/17 2:00	13.633	13.624	13.638	13.626	13.680	13.626	13.634
11/5/17 4:00	13.665	13.655	13.661	13.669	13.710	13.652	13.674
11/5/17 6:00	13.680	13.693	13.674	13.683	13.742	13.666	13.689
11/5/17 8:00	13.705	13.697	13.709	13.699	13.751	13.698	13.707
11/5/17 10:00	13.738	13.730	13.742	13.739	13.786	13.732	13.744
11/5/17 12:00	13.759	13.772	13.754	13.763	13.824	13.746	13.769
11/5/17 14:00	13.746	13.745	13.752	13.744	13.795	13.740	13.749

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
11/5/17 16:00	13.747	13.739	13.751	13.747	13.793	13.739	13.753
11/5/17 18:00	13.764	13.777	13.758	13.768	13.828	13.751	13.773
11/5/17 20:00	13.778	13.771	13.783	13.772	13.823	13.772	13.780
11/5/17 22:00	13.797	13.788	13.802	13.797	13.846	13.791	13.803
11/6/17 0:00	13.813	13.827	13.807	13.818	13.876	13.799	13.821
11/6/17 2:00	13.812	13.804	13.818	13.808	13.856	13.807	13.816
11/6/17 4:00	13.815	13.806	13.810	13.819	13.859	13.802	13.824
11/6/17 6:00	13.824	13.836	13.818	13.826	13.884	13.810	13.831
11/6/17 8:00	13.828	13.820	13.833	13.822	13.875	13.822	13.829
11/6/17 10:00	13.840	13.833	13.845	13.841	13.888	13.834	13.845
11/6/17 12:00	13.832	13.847	13.828	13.837	13.899	13.820	13.842
11/6/17 14:00	13.811	13.811	13.818	13.810	13.862	13.807	13.816
11/6/17 16:00	13.797	13.789	13.802	13.798	13.844	13.791	13.804
11/6/17 18:00	13.795	13.809	13.789	13.799	13.859	13.782	13.804
11/6/17 20:00	13.809	13.804	13.814	13.806	13.856	13.803	13.812
11/6/17 22:00	13.831	13.822	13.835	13.829	13.880	13.823	13.835
11/7/17 0:00	13.847	13.862	13.842	13.851	13.910	13.833	13.855
11/7/17 2:00	13.864	13.857	13.871	13.860	13.908	13.859	13.868
11/7/17 4:00	13.874	13.866	13.871	13.880	13.920	13.862	13.884
11/7/17 6:00	13.896	13.910	13.891	13.900	13.959	13.883	13.906
11/7/17 8:00	13.910	13.903	13.916	13.906	13.959	13.905	13.914
11/7/17 10:00	13.933	13.926	13.939	13.935	13.982	13.927	13.941
11/7/17 12:00	13.935	13.950	13.933	13.942	14.002	13.924	13.947
11/7/17 14:00	13.928	13.927	13.935	13.928	13.980	13.925	13.935
11/7/17 16:00	13.918	13.912	13.925	13.921	13.966	13.913	13.926
11/7/17 18:00	13.922	13.937	13.918	13.927	13.987	13.909	13.931
11/7/17 20:00	13.928	13.924	13.935	13.927	13.977	13.924	13.932
11/7/17 22:00	13.929	13.922	13.935	13.930	13.976	13.923	13.936
11/8/17 0:00	13.936	13.951	13.931	13.940	14.001	13.923	13.945
11/8/17 2:00	13.930	13.921	13.936	13.925	13.974	13.926	13.933
11/8/17 4:00	13.927	13.920	13.924	13.932	13.974	13.915	13.937
11/8/17 6:00	13.920	13.934	13.916	13.925	13.983	13.908	13.930
11/8/17 8:00	13.918	13.911	13.924	13.914	13.966	13.913	13.921
11/8/17 10:00	13.915	13.908	13.919	13.915	13.964	13.908	13.920
11/8/17 12:00	13.889	13.907	13.887	13.897	13.955	13.878	13.901
11/8/17 14:00	13.846	13.847	13.854	13.846	13.899	13.842	13.852
11/8/17 16:00	13.814	13.810	13.821	13.818	13.866	13.811	13.823
11/8/17 18:00	13.811	13.826	13.807	13.816	13.874	13.799	13.821
11/8/17 20:00	13.816	13.811	13.822	13.813	13.865	13.810	13.821
11/8/17 22:00	13.817	13.811	13.823	13.819	13.865	13.811	13.824
11/9/17 0:00	13.821	13.837	13.817	13.825	13.887	13.809	13.830
11/9/17 2:00	13.825	13.818	13.831	13.820	13.871	13.821	13.829
11/9/17 4:00	13.835	13.827	13.832	13.840	13.883	13.824	13.845
11/9/17 6:00	13.866	13.881	13.863	13.872	13.931	13.854	13.877
11/9/17 8:00	13.889	13.882	13.895	13.885	13.936	13.884	13.893
11/9/17 10:00	13.911	13.904	13.916	13.913	13.960	13.904	13.917
11/9/17 12:00	13.919	13.934	13.917	13.927	13.983	13.908	13.931

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
11/9/17 14:00	13.907	13.907	13.915	13.907	13.960	13.903	13.913
11/9/17 16:00	13.892	13.887	13.900	13.896	13.943	13.888	13.901
11/9/17 18:00	13.896	13.912	13.892	13.902	13.961	13.885	13.907
11/9/17 20:00	13.910	13.906	13.917	13.908	13.960	13.905	13.915
11/9/17 22:00	13.903	13.898	13.909	13.905	13.954	13.898	13.911
11/10/17 0:00	13.906	13.921	13.902	13.911	13.973	13.894	13.915
11/10/17 2:00	13.907	13.901	13.915	13.904	13.955	13.904	13.913
11/10/17 4:00	13.901	13.895	13.899	13.908	13.947	13.891	13.912
11/10/17 6:00	13.894	13.909	13.890	13.899	13.958	13.883	13.905
11/10/17 8:00	13.882	13.876	13.888	13.879	13.929	13.877	13.886
11/10/17 10:00	13.879	13.875	13.886	13.882	13.932	13.875	13.888
11/10/17 12:00	13.866	13.883	13.864	13.874	13.932	13.856	13.879
11/10/17 14:00	13.818	13.819	13.827	13.821	13.869	13.817	13.826
11/10/17 16:00	13.790	13.787	13.799	13.795	13.844	13.787	13.800
11/10/17 18:00	13.779	13.794	13.776	13.786	13.844	13.768	13.791
11/10/17 20:00	13.785	13.783	13.794	13.784	13.837	13.782	13.792
11/10/17 22:00	13.778	13.773	13.785	13.781	13.828	13.773	13.787
11/11/17 0:00	13.771	13.790	13.769	13.779	13.840	13.761	13.784
11/11/17 2:00	13.756	13.751	13.765	13.754	13.805	13.753	13.762
11/11/17 4:00	13.746	13.742	13.746	13.754	13.795	13.737	13.759
11/11/17 6:00	13.739	13.755	13.737	13.746	13.806	13.728	13.751
11/11/17 8:00	13.740	13.736	13.748	13.738	13.789	13.736	13.746
11/11/17 10:00	13.743	13.737	13.750	13.746	13.795	13.737	13.751
11/11/17 12:00	13.744	13.759	13.742	13.751	13.809	13.733	13.757
11/11/17 14:00	13.733	13.731	13.741	13.732	13.783	13.729	13.740
11/11/17 16:00	13.736	13.729	13.743	13.738	13.787	13.730	13.744
11/11/17 18:00	13.759	13.775	13.756	13.766	13.824	13.748	13.770
11/11/17 20:00	13.788	13.785	13.795	13.786	13.840	13.783	13.794
11/11/17 22:00	13.811	13.806	13.818	13.815	13.862	13.805	13.820
11/12/17 0:00	13.830	13.846	13.826	13.836	13.895	13.818	13.841
11/12/17 2:00	13.845	13.839	13.854	13.844	13.894	13.842	13.852
11/12/17 4:00	13.861	13.854	13.860	13.867	13.908	13.850	13.873
11/12/17 6:00	13.883	13.899	13.881	13.890	13.951	13.871	13.896
11/12/17 8:00	13.908	13.901	13.915	13.905	13.956	13.903	13.913
11/12/17 10:00	13.934	13.929	13.941	13.936	13.982	13.928	13.943
11/12/17 12:00	13.948	13.964	13.946	13.955	14.015	13.937	13.961
11/12/17 14:00	13.927	13.925	13.934	13.927	13.976	13.923	13.934
11/12/17 16:00	13.911	13.906	13.918	13.915	13.962	13.906	13.920
11/12/17 18:00	13.912	13.928	13.910	13.919	13.977	13.901	13.924
11/12/17 20:00	13.924	13.920	13.932	13.923	13.976	13.920	13.931
11/12/17 22:00	13.925	13.919	13.932	13.928	13.976	13.921	13.934
11/13/17 0:00	13.918	13.935	13.916	13.926	13.984	13.908	13.929
11/13/17 2:00	13.913	13.905	13.921	13.911	13.962	13.910	13.920
11/13/17 4:00	13.903	13.896	13.901	13.909	13.950	13.892	13.914
11/13/17 6:00	13.890	13.907	13.888	13.897	13.954	13.879	13.902
11/13/17 8:00	13.881	13.877	13.888	13.879	13.930	13.877	13.887
11/13/17 10:00	13.878	13.873	13.885	13.881	13.928	13.874	13.887

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
11/13/17 12:00	13.862	13.880	13.862	13.873	13.931	13.854	13.877
11/13/17 14:00	13.829	13.828	13.840	13.831	13.882	13.828	13.838
11/13/17 16:00	13.804	13.800	13.813	13.810	13.855	13.801	13.815
11/13/17 18:00	13.798	13.814	13.797	13.806	13.866	13.789	13.811
11/13/17 20:00	13.805	13.803	13.815	13.805	13.855	13.803	13.813
11/13/17 22:00	13.806	13.801	13.813	13.810	13.859	13.802	13.815
11/14/17 0:00	13.793	13.811	13.792	13.803	13.860	13.784	13.806
11/14/17 2:00	13.778	13.772	13.787	13.777	13.825	13.775	13.785
11/14/17 4:00	13.758	13.753	13.757	13.767	13.806	13.748	13.771
11/14/17 6:00	13.750	13.767	13.748	13.759	13.815	13.739	13.763
11/14/17 8:00	13.740	13.736	13.749	13.739	13.791	13.737	13.747
11/14/17 10:00	13.734	13.728	13.741	13.737	13.784	13.729	13.743
11/14/17 12:00	13.726	13.741	13.724	13.733	13.793	13.715	13.739
11/14/17 14:00	13.683	13.682	13.692	13.685	13.737	13.681	13.691
11/14/17 16:00	13.665	13.660	13.673	13.670	13.716	13.661	13.675
11/14/17 18:00	13.661	13.677	13.659	13.669	13.727	13.650	13.673
11/14/17 20:00	13.674	13.669	13.681	13.672	13.722	13.668	13.680
11/14/17 22:00	13.686	13.680	13.693	13.689	13.738	13.680	13.695
11/15/17 0:00	13.718	13.733	13.714	13.725	13.782	13.704	13.728
11/15/17 2:00	13.733	13.723	13.740	13.729	13.776	13.727	13.738
11/15/17 4:00	13.786	13.778	13.784	13.793	13.834	13.774	13.798
11/15/17 6:00	13.802	13.820	13.802	13.812	13.868	13.793	13.817
11/15/17 8:00	13.829	13.823	13.837	13.827	13.878	13.825	13.835
11/15/17 10:00	13.859	13.853	13.866	13.863	13.909	13.854	13.868
11/15/17 12:00	13.864	13.881	13.863	13.872	13.932	13.854	13.878
11/15/17 14:00	13.840	13.840	13.849	13.841	13.890	13.837	13.848
11/15/17 16:00	13.825	13.818	13.832	13.828	13.873	13.820	13.834
11/15/17 18:00	13.824	13.839	13.821	13.832	13.889	13.813	13.836
11/15/17 20:00	13.825	13.821	13.833	13.824	13.873	13.822	13.832
11/15/17 22:00	13.827	13.821	13.833	13.831	13.878	13.823	13.835
11/16/17 0:00	13.823	13.840	13.821	13.831	13.889	13.812	13.835
11/16/17 2:00	13.815	13.811	13.825	13.816	13.862	13.814	13.825
11/16/17 4:00	13.799	13.793	13.798	13.807	13.849	13.790	13.812
11/16/17 6:00	13.798	13.814	13.797	13.806	13.863	13.788	13.811
11/16/17 8:00	13.793	13.788	13.800	13.791	13.844	13.790	13.799
11/16/17 10:00	13.779	13.773	13.786	13.783	13.829	13.776	13.788
11/16/17 12:00	13.750	13.768	13.751	13.761	13.815	13.743	13.765
11/16/17 14:00	13.704	13.703	13.713	13.706	13.757	13.702	13.713
11/16/17 16:00	13.677	13.672	13.685	13.680	13.726	13.673	13.687
11/16/17 18:00	13.669	13.686	13.668	13.678	13.737	13.660	13.682
11/16/17 20:00	13.663	13.661	13.672	13.663	13.713	13.661	13.672
11/16/17 22:00	13.656	13.652	13.664	13.660	13.711	13.653	13.667
11/17/17 0:00	13.632	13.651	13.631	13.641	13.701	13.623	13.645
11/17/17 2:00	13.609	13.604	13.618	13.609	13.656	13.607	13.617
11/17/17 4:00	13.579	13.573	13.580	13.588	13.629	13.569	13.593
11/17/17 6:00	13.567	13.584	13.566	13.576	13.633	13.557	13.581
11/17/17 8:00	13.552	13.548	13.560	13.552	13.604	13.549	13.560

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
11/17/17 10:00	13.550	13.544	13.556	13.553	13.600	13.546	13.559
11/17/17 12:00	13.541	13.557	13.539	13.549	13.606	13.531	13.554
11/17/17 14:00	13.515	13.514	13.524	13.517	13.566	13.512	13.523
11/17/17 16:00	13.511	13.503	13.515	13.512	13.557	13.504	13.518
11/17/17 18:00	13.515	13.528	13.510	13.521	13.580	13.503	13.525
11/17/17 20:00	13.530	13.525	13.538	13.529	13.579	13.527	13.538
11/17/17 22:00	13.533	13.528	13.541	13.537	13.586	13.530	13.544
11/18/17 0:00	13.562	13.580	13.562	13.571	13.629	13.553	13.577
11/18/17 2:00	13.593	13.583	13.599	13.590	13.637	13.588	13.599
11/18/17 4:00	13.636	13.628	13.635	13.643	13.685	13.626	13.650
11/18/17 6:00	13.679	13.695	13.677	13.687	13.744	13.668	13.693
11/18/17 8:00	13.732	13.726	13.739	13.730	13.782	13.727	13.738
11/18/17 10:00	13.771	13.766	13.778	13.775	13.821	13.766	13.781
11/18/17 12:00	13.810	13.825	13.808	13.819	13.875	13.800	13.825
11/18/17 14:00	13.806	13.804	13.814	13.807	13.857	13.803	13.815
11/18/17 16:00	13.812	13.808	13.821	13.818	13.865	13.808	13.824
11/18/17 18:00	13.824	13.841	13.823	13.833	13.889	13.814	13.838
11/18/17 20:00	13.846	13.843	13.855	13.846	13.897	13.843	13.854
11/18/17 22:00	13.860	13.853	13.867	13.863	13.908	13.855	13.870
11/19/17 0:00	13.862	13.880	13.861	13.870	13.930	13.853	13.874
11/19/17 2:00	13.859	13.851	13.867	13.858	13.906	13.856	13.867
11/19/17 4:00	13.863	13.855	13.861	13.871	13.908	13.853	13.875
11/19/17 6:00	13.856	13.872	13.854	13.864	13.923	13.846	13.869
11/19/17 8:00	13.846	13.840	13.853	13.846	13.894	13.843	13.853
11/19/17 10:00	13.844	13.838	13.851	13.847	13.895	13.840	13.854
11/19/17 12:00	13.828	13.846	13.829	13.838	13.895	13.821	13.844
11/19/17 14:00	13.782	13.783	13.793	13.785	13.833	13.782	13.792
11/19/17 16:00	13.749	13.745	13.759	13.756	13.803	13.747	13.761
11/19/17 18:00	13.737	13.754	13.737	13.746	13.803	13.728	13.751
11/19/17 20:00	13.730	13.728	13.740	13.731	13.782	13.728	13.739
11/19/17 22:00	13.718	13.711	13.724	13.721	13.769	13.714	13.727
11/20/17 0:00	13.699	13.715	13.697	13.707	13.767	13.689	13.711
11/20/17 2:00	13.684	13.677	13.693	13.682	13.732	13.682	13.691
11/20/17 4:00	13.672	13.665	13.670	13.678	13.717	13.662	13.684
11/20/17 6:00	13.662	13.676	13.659	13.669	13.728	13.652	13.674
11/20/17 8:00	13.654	13.647	13.659	13.651	13.700	13.648	13.659
11/20/17 10:00	13.648	13.643	13.656	13.652	13.700	13.645	13.658
11/20/17 12:00	13.633	13.650	13.635	13.644	13.701	13.626	13.649
11/20/17 14:00	13.601	13.602	13.612	13.604	13.653	13.601	13.611
11/20/17 16:00	13.580	13.575	13.588	13.585	13.632	13.576	13.591
11/20/17 18:00	13.583	13.600	13.582	13.592	13.650	13.575	13.597
11/20/17 20:00	13.600	13.599	13.611	13.602	13.654	13.600	13.611
11/20/17 22:00	13.607	13.603	13.616	13.612	13.659	13.605	13.618
11/21/17 0:00	13.623	13.640	13.623	13.631	13.689	13.614	13.636
11/21/17 2:00	13.630	13.625	13.640	13.631	13.681	13.629	13.641
11/21/17 4:00	13.654	13.649	13.654	13.662	13.702	13.645	13.668
11/21/17 6:00	13.676	13.692	13.674	13.684	13.743	13.667	13.689

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
11/21/17 8:00	13.754	13.749	13.762	13.754	13.804	13.751	13.763
11/21/17 10:00	13.815	13.809	13.824	13.820	13.865	13.812	13.826
11/21/17 12:00	13.859	13.878	13.861	13.871	13.929	13.853	13.877
11/21/17 14:00	13.879	13.880	13.891	13.883	13.933	13.880	13.891
11/21/17 16:00	13.896	13.892	13.906	13.904	13.950	13.895	13.910
11/21/17 18:00	13.907	13.924	13.908	13.916	13.975	13.899	13.922
11/21/17 20:00	13.920	13.916	13.929	13.919	13.967	13.917	13.928
11/21/17 22:00	13.930	13.924	13.938	13.935	13.981	13.927	13.940
11/22/17 0:00	13.938	13.952	13.935	13.943	14.001	13.927	13.948
11/22/17 2:00	13.939	13.935	13.949	13.941	13.989	13.938	13.949
11/22/17 4:00	13.922	13.917	13.922	13.931	13.971	13.914	13.936
11/22/17 6:00	13.910	13.924	13.908	13.918	13.973	13.901	13.922
11/22/17 8:00	13.902	13.898	13.910	13.903	13.953	13.900	13.910
11/22/17 10:00	13.893	13.888	13.901	13.898	13.943	13.890	13.904
11/22/17 12:00	13.869	13.887	13.872	13.880	13.939	13.863	13.886
11/22/17 14:00	13.823	13.827	13.836	13.829	13.877	13.825	13.836
11/22/17 16:00	13.791	13.790	13.800	13.798	13.846	13.790	13.804
11/22/17 18:00	13.784	13.802	13.785	13.793	13.852	13.776	13.798
11/22/17 20:00	13.779	13.778	13.790	13.781	13.830	13.779	13.790
11/22/17 22:00	13.779	13.776	13.789	13.786	13.833	13.779	13.793
11/23/17 0:00	13.777	13.794	13.777	13.786	13.845	13.769	13.791
11/23/17 2:00	13.774	13.770	13.785	13.776	13.825	13.774	13.785
11/23/17 4:00	13.770	13.766	13.772	13.780	13.820	13.763	13.786
11/23/17 6:00	13.770	13.789	13.771	13.781	13.837	13.763	13.786
11/23/17 8:00	13.775	13.770	13.784	13.775	13.826	13.773	13.784
11/23/17 10:00	13.782	13.778	13.792	13.787	13.833	13.780	13.794
11/23/17 12:00	13.772	13.791	13.775	13.785	13.843	13.767	13.790
11/23/17 14:00	13.738	13.739	13.748	13.742	13.791	13.737	13.749
11/23/17 16:00	13.707	13.701	13.714	13.711	13.755	13.702	13.717
11/23/17 18:00	13.695	13.711	13.694	13.704	13.761	13.685	13.708
11/23/17 20:00	13.677	13.675	13.688	13.680	13.729	13.676	13.688
11/23/17 22:00	13.661	13.657	13.670	13.667	13.711	13.659	13.674
11/24/17 0:00	13.641	13.661	13.642	13.652	13.710	13.634	13.656
11/24/17 2:00	13.628	13.625	13.639	13.630	13.677	13.628	13.639
11/24/17 4:00	13.609	13.605	13.611	13.619	13.660	13.602	13.625
11/24/17 6:00	13.589	13.608	13.589	13.600	13.657	13.582	13.604
11/24/17 8:00	13.587	13.584	13.597	13.589	13.636	13.586	13.598
11/24/17 10:00	13.584	13.581	13.594	13.590	13.638	13.582	13.597
11/24/17 12:00	13.585	13.601	13.585	13.594	13.650	13.576	13.600
11/24/17 14:00	13.587	13.582	13.592	13.586	13.636	13.581	13.594
11/24/17 16:00	13.616	13.609	13.622	13.619	13.665	13.611	13.627
11/24/17 18:00	13.641	13.656	13.640	13.650	13.708	13.632	13.655
11/24/17 20:00	13.691	13.687	13.699	13.691	13.741	13.687	13.700
11/24/17 22:00	13.737	13.733	13.747	13.742	13.788	13.734	13.750
11/25/17 0:00	13.757	13.775	13.757	13.766	13.825	13.749	13.771
11/25/17 2:00	13.775	13.771	13.787	13.778	13.824	13.774	13.787
11/25/17 4:00	13.781	13.778	13.783	13.791	13.832	13.774	13.797

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
11/25/17 6:00	13.807	13.823	13.807	13.817	13.873	13.799	13.821
11/25/17 8:00	13.811	13.809	13.822	13.814	13.862	13.811	13.822
11/25/17 10:00	13.830	13.828	13.840	13.837	13.885	13.829	13.844
11/25/17 12:00	13.851	13.871	13.854	13.864	13.919	13.845	13.869
11/25/17 14:00	13.834	13.836	13.846	13.839	13.889	13.834	13.846
11/25/17 16:00	13.826	13.823	13.836	13.833	13.878	13.824	13.840
11/25/17 18:00	13.823	13.840	13.823	13.832	13.892	13.816	13.838
11/25/17 20:00	13.831	13.832	13.843	13.836	13.884	13.831	13.843
11/25/17 22:00	13.835	13.832	13.845	13.843	13.887	13.834	13.848
11/26/17 0:00	13.844	13.864	13.847	13.856	13.914	13.837	13.860
11/26/17 2:00	13.840	13.838	13.852	13.843	13.890	13.840	13.852
11/26/17 4:00	13.841	13.836	13.843	13.851	13.893	13.833	13.856
11/26/17 6:00	13.827	13.844	13.828	13.837	13.896	13.820	13.843
11/26/17 8:00	13.823	13.822	13.834	13.826	13.874	13.823	13.835
11/26/17 10:00	13.825	13.824	13.836	13.833	13.879	13.824	13.839
11/26/17 12:00	13.821	13.840	13.824	13.833	13.889	13.815	13.838
11/26/17 14:00	13.793	13.795	13.805	13.798	13.849	13.793	13.806
11/26/17 16:00	13.767	13.761	13.774	13.771	13.817	13.762	13.778
11/26/17 18:00	13.752	13.771	13.754	13.763	13.819	13.746	13.768
11/26/17 20:00	13.751	13.752	13.762	13.755	13.803	13.751	13.763
11/26/17 22:00	13.740	13.739	13.750	13.747	13.793	13.740	13.755
11/27/17 0:00	13.730	13.750	13.732	13.741	13.800	13.723	13.746
11/27/17 2:00	13.714	13.710	13.725	13.717	13.764	13.714	13.725
11/27/17 4:00	13.699	13.695	13.700	13.707	13.752	13.692	13.714
11/27/17 6:00	13.679	13.697	13.681	13.690	13.747	13.672	13.694
11/27/17 8:00	13.664	13.661	13.674	13.666	13.714	13.663	13.674
11/27/17 10:00	13.646	13.643	13.656	13.653	13.701	13.645	13.660
11/27/17 12:00	13.631	13.651	13.634	13.644	13.700	13.626	13.649
11/27/17 14:00	13.581	13.581	13.591	13.585	13.636	13.580	13.592
11/27/17 16:00	13.552	13.544	13.556	13.554	13.600	13.545	13.560
11/27/17 18:00	13.543	13.560	13.544	13.553	13.609	13.535	13.558
11/27/17 20:00	13.554	13.554	13.565	13.558	13.608	13.554	13.566
11/27/17 22:00	13.541	13.539	13.551	13.549	13.595	13.540	13.555
11/28/17 0:00	13.538	13.558	13.540	13.549	13.609	13.532	13.554
11/28/17 2:00	13.554	13.545	13.563	13.551	13.603	13.551	13.564
11/28/17 4:00	13.602	13.597	13.603	13.611	13.653	13.593	13.617
11/28/17 6:00	13.661	13.680	13.662	13.672	13.730	13.654	13.678
11/28/17 8:00	13.714	13.713	13.725	13.718	13.768	13.714	13.727
11/28/17 10:00	13.764	13.761	13.773	13.771	13.818	13.761	13.778
11/28/17 12:00	13.800	13.819	13.803	13.812	13.869	13.793	13.818
11/28/17 14:00	13.811	13.836	13.823	13.820	13.889	13.810	13.826
11/28/17 16:00	13.832	13.827	13.841	13.840	13.881	13.831	13.849
11/28/17 18:00	13.857	13.856	13.868	13.868	13.910	13.856	13.873
11/28/17 20:00	13.879	13.906	13.892	13.888	13.957	13.879	13.894
11/28/17 22:00	13.903	13.898	13.911	13.912	13.952	13.903	13.922
11/29/17 0:00	13.906	13.906	13.918	13.917	13.962	13.906	13.923
11/29/17 2:00	13.893	13.913	13.896	13.904	13.963	13.887	13.908

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
11/29/17 4:00	13.885	13.878	13.894	13.890	13.932	13.884	13.900
11/29/17 6:00	13.880	13.878	13.890	13.888	13.934	13.878	13.894
11/29/17 8:00	13.862	13.883	13.872	13.869	13.935	13.860	13.874
11/29/17 10:00	13.857	13.850	13.870	13.861	13.905	13.858	13.870
11/29/17 12:00	13.837	13.838	13.850	13.850	13.894	13.839	13.855
11/29/17 14:00	13.790	13.818	13.804	13.801	13.868	13.792	13.806
11/29/17 16:00	13.773	13.770	13.784	13.781	13.825	13.775	13.791
11/29/17 18:00	13.783	13.784	13.796	13.795	13.839	13.784	13.801
11/29/17 20:00	13.805	13.830	13.817	13.812	13.882	13.803	13.818
11/29/17 22:00	13.824	13.822	13.835	13.836	13.876	13.826	13.844
11/30/17 0:00	13.846	13.844	13.856	13.856	13.899	13.845	13.862
11/30/17 2:00	13.875	13.896	13.877	13.884	13.946	13.868	13.890
11/30/17 4:00	13.893	13.887	13.903	13.899	13.943	13.893	13.908
11/30/17 6:00	13.904	13.903	13.914	13.915	13.960	13.903	13.920
11/30/17 8:00	13.913	13.936	13.923	13.920	13.988	13.911	13.926
11/30/17 10:00	13.919	13.916	13.935	13.927	13.971	13.923	13.935
11/30/17 12:00	13.916	13.916	13.929	13.927	13.973	13.917	13.933
11/30/17 14:00	13.883	13.912	13.900	13.896	13.962	13.886	13.901
11/30/17 16:00	13.855	13.853	13.866	13.863	13.907	13.857	13.873
11/30/17 18:00	13.835	13.836	13.847	13.847	13.892	13.835	13.853
11/30/17 20:00	13.835	13.861	13.849	13.844	13.910	13.835	13.850
11/30/17 22:00	13.829	13.827	13.840	13.840	13.881	13.831	13.849
12/1/17 0:00	13.815	13.815	13.827	13.826	13.870	13.816	13.832
12/1/17 2:00	13.804	13.825	13.807	13.815	13.875	13.798	13.821
12/1/17 4:00	13.797	13.794	13.808	13.804	13.847	13.798	13.813
12/1/17 6:00	13.787	13.786	13.796	13.796	13.842	13.786	13.802
12/1/17 8:00	13.775	13.799	13.788	13.784	13.851	13.774	13.789
12/1/17 10:00	13.771	13.766	13.785	13.779	13.821	13.774	13.786
12/1/17 12:00	13.751	13.754	13.765	13.764	13.810	13.753	13.770
12/1/17 14:00	13.724	13.752	13.740	13.737	13.802	13.727	13.742
12/1/17 16:00	13.718	13.714	13.728	13.726	13.771	13.718	13.735
12/1/17 18:00	13.726	13.726	13.738	13.737	13.783	13.726	13.743
12/1/17 20:00	13.755	13.781	13.769	13.764	13.832	13.755	13.771
12/1/17 22:00	13.770	13.766	13.780	13.779	13.822	13.771	13.788
12/2/17 0:00	13.776	13.776	13.788	13.787	13.831	13.777	13.793
12/2/17 2:00	13.787	13.807	13.790	13.797	13.858	13.780	13.802
12/2/17 4:00	13.791	13.787	13.802	13.798	13.842	13.793	13.807
12/2/17 6:00	13.792	13.790	13.802	13.800	13.844	13.790	13.807
12/2/17 8:00	13.805	13.827	13.817	13.813	13.880	13.804	13.819
12/2/17 10:00	13.821	13.817	13.836	13.828	13.872	13.824	13.837
12/2/17 12:00	13.817	13.820	13.831	13.832	13.877	13.821	13.836
12/2/17 14:00	13.795	13.823	13.810	13.806	13.873	13.797	13.812
12/2/17 16:00	13.780	13.776	13.791	13.788	13.829	13.780	13.797
12/2/17 18:00	13.772	13.774	13.785	13.785	13.829	13.774	13.790
12/2/17 20:00	13.787	13.812	13.800	13.796	13.863	13.787	13.802
12/2/17 22:00	13.789	13.787	13.799	13.800	13.841	13.790	13.808
12/3/17 0:00	13.784	13.783	13.795	13.794	13.840	13.785	13.800

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/3/17 2:00	13.771	13.792	13.774	13.782	13.840	13.765	13.787
12/3/17 4:00	13.761	13.759	13.773	13.770	13.814	13.763	13.779
12/3/17 6:00	13.745	13.745	13.757	13.757	13.800	13.747	13.762
12/3/17 8:00	13.743	13.766	13.756	13.752	13.820	13.743	13.758
12/3/17 10:00	13.726	13.724	13.741	13.734	13.779	13.730	13.742
12/3/17 12:00	13.699	13.702	13.712	13.713	13.756	13.701	13.717
12/3/17 14:00	13.642	13.670	13.659	13.655	13.723	13.646	13.660
12/3/17 16:00	13.594	13.592	13.604	13.603	13.644	13.595	13.612
12/3/17 18:00	13.569	13.570	13.582	13.581	13.627	13.571	13.587
12/3/17 20:00	13.547	13.574	13.561	13.558	13.625	13.548	13.563
12/3/17 22:00	13.525	13.523	13.535	13.536	13.574	13.526	13.544
12/4/17 0:00	13.497	13.499	13.509	13.510	13.554	13.498	13.515
12/4/17 2:00	13.482	13.506	13.489	13.496	13.553	13.479	13.502
12/4/17 4:00	13.485	13.483	13.498	13.495	13.539	13.488	13.503
12/4/17 6:00	13.496	13.499	13.509	13.510	13.553	13.499	13.516
12/4/17 8:00	13.533	13.559	13.548	13.544	13.612	13.534	13.550
12/4/17 10:00	13.563	13.560	13.580	13.572	13.616	13.568	13.580
12/4/17 12:00	13.602	13.603	13.615	13.616	13.660	13.604	13.621
12/4/17 14:00	13.631	13.657	13.646	13.642	13.711	13.632	13.648
12/4/17 16:00	13.685	13.683	13.697	13.697	13.739	13.687	13.707
12/4/17 18:00	13.746	13.747	13.758	13.758	13.807	13.747	13.764
12/4/17 20:00	13.791	13.818	13.806	13.801	13.871	13.793	13.808
12/4/17 22:00	13.837	13.834	13.845	13.846	13.887	13.836	13.854
12/5/17 0:00	13.851	13.849	13.861	13.860	13.907	13.850	13.866
12/5/17 2:00	13.846	13.864	13.847	13.854	13.914	13.838	13.860
12/5/17 4:00	13.854	13.849	13.865	13.861	13.907	13.854	13.869
12/5/17 6:00	13.856	13.855	13.866	13.865	13.910	13.855	13.871
12/5/17 8:00	13.872	13.895	13.884	13.881	13.946	13.871	13.887
12/5/17 10:00	13.887	13.885	13.902	13.895	13.941	13.890	13.902
12/5/17 12:00	13.876	13.880	13.890	13.889	13.934	13.879	13.895
12/5/17 14:00	13.841	13.871	13.859	13.856	13.924	13.846	13.861
12/5/17 16:00	13.826	13.826	13.838	13.838	13.879	13.829	13.846
12/5/17 18:00	13.825	13.829	13.840	13.839	13.881	13.828	13.844
12/5/17 20:00	13.819	13.845	13.834	13.829	13.898	13.821	13.836
12/5/17 22:00	13.831	13.828	13.840	13.841	13.881	13.831	13.849
12/6/17 0:00	13.846	13.847	13.859	13.858	13.904	13.848	13.864
12/6/17 2:00	13.858	13.878	13.863	13.869	13.929	13.853	13.875
12/6/17 4:00	13.867	13.865	13.879	13.876	13.922	13.869	13.884
12/6/17 6:00	13.873	13.873	13.884	13.884	13.929	13.873	13.889
12/6/17 8:00	13.885	13.909	13.898	13.895	13.959	13.886	13.900
12/6/17 10:00	13.902	13.900	13.919	13.911	13.956	13.907	13.919
12/6/17 12:00	13.900	13.904	13.916	13.915	13.959	13.904	13.921
12/6/17 14:00	13.881	13.909	13.898	13.894	13.962	13.884	13.899
12/6/17 16:00	13.874	13.877	13.888	13.888	13.931	13.879	13.897
12/6/17 18:00	13.901	13.902	13.913	13.913	13.955	13.902	13.919
12/6/17 20:00	13.936	13.964	13.951	13.947	14.014	13.938	13.954
12/6/17 22:00	13.969	13.966	13.978	13.979	14.019	13.969	13.987

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/7/17 0:00	13.978	13.978	13.990	13.988	14.035	13.978	13.995
12/7/17 2:00	13.982	14.000	13.985	13.991	14.052	13.975	13.996
12/7/17 4:00	13.989	13.985	13.999	13.996	14.041	13.989	14.004
12/7/17 6:00	13.976	13.975	13.986	13.985	14.032	13.975	13.991
12/7/17 8:00	13.977	13.999	13.988	13.985	14.050	13.975	13.989
12/7/17 10:00	13.978	13.973	13.990	13.984	14.031	13.979	13.992
12/7/17 12:00	13.971	13.971	13.982	13.981	14.027	13.971	13.987
12/7/17 14:00	13.928	13.956	13.944	13.940	14.008	13.931	13.945
12/7/17 16:00	13.899	13.900	13.912	13.911	13.954	13.902	13.920
12/7/17 18:00	13.874	13.877	13.888	13.886	13.930	13.876	13.892
12/7/17 20:00	13.859	13.883	13.872	13.868	13.935	13.860	13.873
12/7/17 22:00	13.835	13.832	13.845	13.845	13.885	13.835	13.853
12/8/17 0:00	13.816	13.814	13.826	13.825	13.871	13.815	13.831
12/8/17 2:00	13.786	13.806	13.790	13.797	13.855	13.781	13.802
12/8/17 4:00	13.765	13.765	13.777	13.775	13.820	13.767	13.783
12/8/17 6:00	13.752	13.753	13.764	13.763	13.808	13.752	13.769
12/8/17 8:00	13.755	13.780	13.770	13.766	13.830	13.756	13.771
12/8/17 10:00	13.775	13.776	13.794	13.787	13.832	13.781	13.794
12/8/17 12:00	13.789	13.792	13.803	13.802	13.847	13.792	13.809
12/8/17 14:00	13.772	13.802	13.790	13.787	13.853	13.778	13.792
12/8/17 16:00	13.764	13.764	13.775	13.776	13.817	13.766	13.784
12/8/17 18:00	13.768	13.771	13.782	13.782	13.824	13.771	13.787
12/8/17 20:00	13.770	13.795	13.783	13.778	13.846	13.770	13.785
12/8/17 22:00	13.771	13.771	13.783	13.784	13.823	13.773	13.792
12/9/17 0:00	13.779	13.781	13.793	13.792	13.837	13.781	13.798
12/9/17 2:00	13.794	13.814	13.799	13.805	13.864	13.790	13.811
12/9/17 4:00	13.802	13.801	13.814	13.811	13.858	13.805	13.821
12/9/17 6:00	13.804	13.805	13.817	13.816	13.861	13.805	13.822
12/9/17 8:00	13.822	13.847	13.837	13.834	13.898	13.823	13.839
12/9/17 10:00	13.843	13.841	13.858	13.851	13.897	13.847	13.859
12/9/17 12:00	13.862	13.866	13.876	13.876	13.920	13.865	13.881
12/9/17 14:00	13.843	13.870	13.859	13.855	13.923	13.846	13.862
12/9/17 16:00	13.834	13.836	13.848	13.847	13.889	13.838	13.854
12/9/17 18:00	13.832	13.837	13.848	13.847	13.890	13.836	13.853
12/9/17 20:00	13.833	13.860	13.848	13.844	13.912	13.836	13.850
12/9/17 22:00	13.823	13.823	13.834	13.835	13.875	13.825	13.843
12/10/17 0:00	13.822	13.825	13.836	13.836	13.883	13.825	13.842
12/10/17 2:00	13.823	13.846	13.831	13.837	13.897	13.821	13.842
12/10/17 4:00	13.829	13.830	13.843	13.839	13.883	13.832	13.849
12/10/17 6:00	13.827	13.831	13.842	13.841	13.887	13.830	13.847
12/10/17 8:00	13.840	13.866	13.856	13.851	13.918	13.842	13.857
12/10/17 10:00	13.850	13.850	13.868	13.861	13.908	13.856	13.869
12/10/17 12:00	13.857	13.860	13.871	13.870	13.916	13.859	13.876
12/10/17 14:00	13.845	13.872	13.861	13.857	13.922	13.847	13.862
12/10/17 16:00	13.833	13.834	13.846	13.845	13.889	13.835	13.853
12/10/17 18:00	13.827	13.831	13.843	13.842	13.885	13.831	13.847
12/10/17 20:00	13.823	13.852	13.841	13.836	13.905	13.827	13.841

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/10/17 22:00	13.819	13.820	13.831	13.831	13.873	13.822	13.840
12/11/17 0:00	13.816	13.819	13.830	13.829	13.873	13.819	13.834
12/11/17 2:00	13.804	13.828	13.813	13.819	13.879	13.802	13.824
12/11/17 4:00	13.803	13.805	13.818	13.815	13.858	13.808	13.824
12/11/17 6:00	13.793	13.795	13.806	13.806	13.851	13.795	13.812
12/11/17 8:00	13.802	13.828	13.818	13.813	13.879	13.805	13.820
12/11/17 10:00	13.810	13.812	13.829	13.822	13.870	13.817	13.830
12/11/17 12:00	13.816	13.821	13.831	13.830	13.877	13.820	13.837
12/11/17 14:00	13.816	13.841	13.830	13.827	13.892	13.817	13.833
12/11/17 16:00	13.831	13.830	13.844	13.843	13.886	13.833	13.853
12/11/17 18:00	13.865	13.868	13.879	13.878	13.922	13.867	13.884
12/11/17 20:00	13.894	13.921	13.909	13.905	13.974	13.895	13.911
12/11/17 22:00	13.914	13.914	13.926	13.928	13.969	13.917	13.935
12/12/17 0:00	13.926	13.930	13.939	13.939	13.983	13.929	13.945
12/12/17 2:00	13.931	13.953	13.937	13.943	14.003	13.927	13.949
12/12/17 4:00	13.930	13.931	13.944	13.942	13.985	13.933	13.951
12/12/17 6:00	13.917	13.921	13.930	13.930	13.977	13.919	13.935
12/12/17 8:00	13.912	13.937	13.943	13.933	13.990	13.926	13.941
12/12/17 10:00	13.903	13.904	13.920	13.914	13.957	13.908	13.921
12/12/17 12:00	13.879	13.883	13.894	13.894	13.940	13.882	13.899
12/12/17 14:00	13.839	13.868	13.856	13.855	13.917	13.844	13.859
12/12/17 16:00	13.794	13.795	13.812	13.805	13.851	13.799	13.813
12/12/17 18:00	13.767	13.771	13.781	13.781	13.825	13.770	13.786
12/12/17 20:00	13.738	13.765	13.754	13.751	13.818	13.742	13.756
12/12/17 22:00	13.717	13.718	13.731	13.728	13.773	13.721	13.737
12/13/17 0:00	13.683	13.688	13.697	13.697	13.741	13.686	13.702
12/13/17 2:00	13.662	13.685	13.670	13.676	13.736	13.659	13.681
12/13/17 4:00	13.656	13.657	13.674	13.667	13.711	13.661	13.674
12/13/17 6:00	13.674	13.679	13.689	13.688	13.735	13.677	13.693
12/13/17 8:00	13.697	13.720	13.710	13.709	13.774	13.697	13.715
12/13/17 10:00	13.708	13.708	13.726	13.720	13.763	13.714	13.727
12/13/17 12:00	13.721	13.726	13.736	13.735	13.781	13.724	13.740
12/13/17 14:00	13.710	13.737	13.726	13.725	13.788	13.714	13.730
12/13/17 16:00	13.699	13.700	13.717	13.711	13.757	13.704	13.718
12/13/17 18:00	13.712	13.715	13.725	13.724	13.771	13.714	13.731
12/13/17 20:00	13.732	13.758	13.748	13.744	13.808	13.734	13.750
12/13/17 22:00	13.745	13.744	13.758	13.755	13.799	13.748	13.764
12/14/17 0:00	13.763	13.766	13.777	13.775	13.820	13.765	13.782
12/14/17 2:00	13.779	13.801	13.785	13.792	13.853	13.775	13.798
12/14/17 4:00	13.794	13.793	13.811	13.805	13.848	13.799	13.812
12/14/17 6:00	13.788	13.791	13.801	13.800	13.844	13.789	13.805
12/14/17 8:00	13.794	13.816	13.806	13.806	13.870	13.794	13.811
12/14/17 10:00	13.798	13.798	13.815	13.808	13.853	13.803	13.816
12/14/17 12:00	13.800	13.804	13.814	13.814	13.861	13.802	13.820
12/14/17 14:00	13.788	13.815	13.804	13.802	13.866	13.791	13.807
12/14/17 16:00	13.794	13.794	13.809	13.804	13.850	13.796	13.812
12/14/17 18:00	13.814	13.817	13.828	13.828	13.874	13.816	13.834

TABLE S.10 Automatically measured air pressures at SG1S,D - SG3S,D, and local barometric pressure.

Date/Time	Pressure (psi)						
	Atmospheric	SG1S	SG2S	SG3S	SG1D	SG2D	SG3D
12/14/17 20:00	13.827	13.853	13.842	13.839	13.902	13.828	13.844
12/14/17 22:00	13.846	13.846	13.857	13.856	13.900	13.847	13.865
12/15/17 0:00	13.846	13.848	13.858	13.859	13.903	13.847	13.864
12/15/17 2:00	13.841	13.863	13.846	13.854	13.914	13.836	13.859
12/15/17 4:00	13.836	13.836	13.852	13.844	13.892	13.840	13.853
12/15/17 6:00	13.826	13.828	13.837	13.837	13.883	13.826	13.843
12/15/17 8:00	13.809	13.830	13.818	13.820	13.884	13.806	13.825
12/15/17 10:00	13.786	13.786	13.801	13.795	13.842	13.789	13.802

Supplement 11:

Automatically Recorded Water Level Data

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
2/7/17 16:00	42.575	42.504	2/11/17 12:00	42.798	42.544
2/7/17 18:00	42.725	42.551	2/11/17 14:00	42.726	42.511
2/7/17 20:00	42.691	42.555	2/11/17 16:00	42.655	42.537
2/7/17 22:00	42.599	42.572	2/11/17 18:00	42.850	42.593
2/8/17 0:00	42.775	42.593	2/11/17 20:00	42.848	42.645
2/8/17 2:00	42.699	42.558	2/11/17 22:00	42.787	42.677
2/8/17 4:00	42.602	42.565	2/12/17 0:00	42.972	42.731
2/8/17 6:00	42.820	42.652	2/12/17 2:00	42.959	42.771
2/8/17 8:00	42.807	42.677	2/12/17 4:00	42.883	42.783
2/8/17 10:00	42.750	42.724	2/12/17 6:00	43.045	42.802
2/8/17 12:00	42.912	42.745	2/12/17 8:00	43.009	42.806
2/8/17 14:00	42.815	42.694	2/12/17 10:00	42.912	42.813
2/8/17 16:00	42.725	42.684	2/12/17 12:00	43.053	42.806
2/8/17 18:00	42.859	42.677	2/12/17 14:00	42.967	42.745
2/8/17 20:00	42.823	42.684	2/12/17 16:00	42.837	42.708
2/8/17 22:00	42.753	42.703	2/12/17 18:00	42.959	42.687
2/9/17 0:00	42.873	42.687	2/12/17 20:00	42.892	42.661
2/9/17 2:00	42.825	42.687	2/12/17 22:00	42.781	42.649
2/9/17 4:00	42.714	42.666	2/13/17 0:00	42.922	42.633
2/9/17 6:00	42.857	42.661	2/13/17 2:00	42.844	42.593
2/9/17 8:00	42.802	42.645	2/13/17 4:00	42.733	42.581
2/9/17 10:00	42.698	42.640	2/13/17 6:00	42.876	42.579
2/9/17 12:00	42.804	42.600	2/13/17 8:00	42.828	42.569
2/9/17 14:00	42.700	42.518	2/13/17 10:00	42.705	42.551
2/9/17 16:00	42.581	42.485	2/13/17 12:00	42.849	42.532
2/9/17 18:00	42.716	42.478	2/13/17 14:00	42.768	42.487
2/9/17 20:00	42.637	42.445	2/13/17 16:00	42.643	42.471
2/9/17 22:00	42.533	42.438	2/13/17 18:00	42.812	42.492
2/10/17 0:00	42.656	42.403	2/13/17 20:00	42.778	42.487
2/10/17 2:00	42.582	42.380	2/13/17 22:00	42.671	42.487
2/10/17 4:00	42.481	42.370	2/14/17 0:00	42.828	42.501
2/10/17 6:00	42.639	42.377	2/14/17 2:00	42.785	42.497
2/10/17 8:00	42.621	42.391	2/14/17 4:00	42.690	42.511
2/10/17 10:00	42.531	42.433	2/14/17 6:00	42.857	42.539
2/10/17 12:00	42.691	42.445	2/14/17 8:00	42.828	42.555
2/10/17 14:00	42.622	42.408	2/14/17 10:00	42.707	42.539
2/10/17 16:00	42.529	42.415	2/14/17 12:00	42.862	42.532
2/10/17 18:00	42.694	42.436	2/14/17 14:00	42.779	42.487
2/10/17 20:00	42.658	42.448	2/14/17 16:00	42.680	42.492
2/10/17 22:00	42.565	42.452	2/14/17 18:00	42.851	42.511
2/11/17 0:00	42.709	42.445	2/14/17 20:00	42.820	42.527
2/11/17 2:00	42.663	42.443	2/14/17 22:00	42.743	42.558
2/11/17 4:00	42.575	42.462	2/15/17 0:00	42.894	42.562
2/11/17 6:00	42.761	42.501	2/15/17 2:00	42.848	42.548
2/11/17 8:00	42.739	42.532	2/15/17 4:00	42.730	42.537
2/11/17 10:00	42.645	42.544	2/15/17 6:00	42.891	42.548
2/15/17 8:00	42.850	42.546	2/19/17 4:00	42.755	42.527

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
2/15/17 10:00	42.741	42.541	2/19/17 6:00	42.906	42.534
2/15/17 12:00	42.864	42.523	2/19/17 8:00	42.865	42.539
2/15/17 14:00	42.769	42.459	2/19/17 10:00	42.758	42.530
2/15/17 16:00	42.639	42.426	2/19/17 12:00	42.900	42.523
2/15/17 18:00	42.785	42.419	2/19/17 14:00	42.798	42.462
2/15/17 20:00	42.737	42.417	2/19/17 16:00	42.689	42.448
2/15/17 22:00	42.644	42.426	2/19/17 18:00	42.863	42.473
2/16/17 0:00	42.800	42.429	2/19/17 20:00	42.834	42.485
2/16/17 2:00	42.735	42.412	2/19/17 22:00	42.736	42.501
2/16/17 4:00	42.624	42.408	2/20/17 0:00	42.850	42.464
2/16/17 6:00	42.786	42.410	2/20/17 2:00	42.794	42.448
2/16/17 8:00	42.731	42.408	2/20/17 4:00	42.697	42.457
2/16/17 10:00	42.629	42.415	2/20/17 6:00	42.865	42.471
2/16/17 12:00	42.781	42.412	2/20/17 8:00	42.843	42.499
2/16/17 14:00	42.698	42.368	2/20/17 10:00	42.762	42.530
2/16/17 16:00	42.604	42.370	2/20/17 12:00	42.927	42.546
2/16/17 18:00	42.756	42.380	2/20/17 14:00	42.872	42.541
2/16/17 20:00	42.708	42.377	2/20/17 16:00	42.826	42.572
2/16/17 22:00	42.614	42.387	2/20/17 18:00	42.991	42.619
2/17/17 0:00	42.766	42.387	2/20/17 20:00	42.952	42.623
2/17/17 2:00	42.716	42.387	2/20/17 22:00	42.853	42.616
2/17/17 4:00	42.619	42.389	2/21/17 0:00	42.994	42.612
2/17/17 6:00	42.786	42.408	2/21/17 2:00	42.924	42.588
2/17/17 8:00	42.756	42.415	2/21/17 4:00	42.839	42.600
2/17/17 10:00	42.659	42.438	2/21/17 6:00	42.983	42.600
2/17/17 12:00	42.808	42.438	2/21/17 8:00	42.932	42.593
2/17/17 14:00	42.733	42.403	2/21/17 10:00	42.837	42.593
2/17/17 16:00	42.646	42.412	2/21/17 12:00	42.947	42.560
2/17/17 18:00	42.814	42.441	2/21/17 14:00	42.848	42.492
2/17/17 20:00	42.787	42.462	2/21/17 16:00	42.734	42.473
2/17/17 22:00	42.725	42.506	2/21/17 18:00	42.880	42.473
2/18/17 0:00	42.887	42.520	2/21/17 20:00	42.823	42.471
2/18/17 2:00	42.839	42.509	2/21/17 22:00	42.733	42.471
2/18/17 4:00	42.733	42.509	2/22/17 0:00	42.841	42.450
2/18/17 6:00	42.893	42.527	2/22/17 2:00	42.805	42.433
2/18/17 8:00	42.847	42.530	2/22/17 4:00	42.687	42.419
2/18/17 10:00	42.768	42.555	2/22/17 6:00	42.863	42.443
2/18/17 12:00	42.900	42.534	2/22/17 8:00	42.826	42.459
2/18/17 14:00	42.803	42.478	2/22/17 10:00	42.741	42.487
2/18/17 16:00	42.713	42.476	2/22/17 12:00	42.892	42.490
2/18/17 18:00	42.864	42.492	2/22/17 14:00	42.811	42.450
2/18/17 20:00	42.813	42.485	2/22/17 16:00	42.721	42.450
2/18/17 22:00	42.732	42.504	2/22/17 18:00	42.873	42.462
2/19/17 0:00	42.891	42.520	2/22/17 20:00	42.831	42.469
2/19/17 2:00	42.850	42.525	2/22/17 22:00	42.741	42.480
2/23/17 0:00	42.890	42.478	2/26/17 20:00	42.853	42.537
2/23/17 2:00	42.834	42.464	2/26/17 22:00	42.763	42.541

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
2/23/17 4:00	42.737	42.464	2/27/17 0:00	42.895	42.525
2/23/17 6:00	42.871	42.464	2/27/17 2:00	42.837	42.511
2/23/17 8:00	42.823	42.441	2/27/17 4:00	42.722	42.490
2/23/17 10:00	42.712	42.438	2/27/17 6:00	42.851	42.501
2/23/17 12:00	42.844	42.417	2/27/17 8:00	42.815	42.499
2/23/17 14:00	42.761	42.380	2/27/17 10:00	42.703	42.487
2/23/17 16:00	42.687	42.405	2/27/17 12:00	42.807	42.445
2/23/17 18:00	42.854	42.438	2/27/17 14:00	42.708	42.380
2/23/17 20:00	42.879	42.506	2/27/17 16:00	42.606	42.373
2/23/17 22:00	42.788	42.523	2/27/17 18:00	42.763	42.387
2/24/17 0:00	42.950	42.541	2/27/17 20:00	42.700	42.384
2/24/17 2:00	42.899	42.534	2/27/17 22:00	42.606	42.384
2/24/17 4:00	42.816	42.551	2/28/17 0:00	42.759	42.389
2/24/17 6:00	42.983	42.567	2/28/17 2:00	42.710	42.396
2/24/17 8:00	42.954	42.593	2/28/17 4:00	42.609	42.403
2/24/17 10:00	42.868	42.630	2/28/17 6:00	42.792	42.436
2/24/17 12:00	43.030	42.656	2/28/17 8:00	42.788	42.483
2/24/17 14:00	43.027	42.640	2/28/17 10:00	42.700	42.497
2/24/17 16:00	42.918	42.661	2/28/17 12:00	42.821	42.478
2/24/17 18:00	43.078	42.684	2/28/17 14:00	42.754	42.443
2/24/17 20:00	43.046	42.694	2/28/17 16:00	42.673	42.466
2/24/17 22:00	42.944	42.694	2/28/17 18:00	42.828	42.501
2/25/17 0:00	43.081	42.684	2/28/17 20:00	42.834	42.555
2/25/17 2:00	43.023	42.668	2/28/17 22:00	42.760	42.579
2/25/17 4:00	42.894	42.635	3/1/17 0:00	42.929	42.612
2/25/17 6:00	43.029	42.630	3/1/17 2:00	42.885	42.614
2/25/17 8:00	42.983	42.619	3/1/17 4:00	42.793	42.619
2/25/17 10:00	42.846	42.600	3/1/17 6:00	42.957	42.654
2/25/17 12:00	42.962	42.555	3/1/17 8:00	42.921	42.663
2/25/17 14:00	42.846	42.487	3/1/17 10:00	42.863	42.708
2/25/17 16:00	42.747	42.473	3/1/17 12:00	43.012	42.720
2/25/17 18:00	42.881	42.478	3/1/17 14:00	42.924	42.673
2/25/17 20:00	42.833	42.483	3/1/17 16:00	42.829	42.670
2/25/17 22:00	42.740	42.478	3/1/17 18:00	42.970	42.673
2/26/17 0:00	42.914	42.518	3/1/17 20:00	42.917	42.663
2/26/17 2:00	42.829	42.485	3/1/17 22:00	42.827	42.675
2/26/17 4:00	42.736	42.494	3/2/17 0:00	42.952	42.670
2/26/17 6:00	42.891	42.509	3/2/17 2:00	42.906	42.659
2/26/17 8:00	42.871	42.525	3/2/17 4:00	42.809	42.654
2/26/17 10:00	42.777	42.541	3/2/17 6:00	42.967	42.673
2/26/17 12:00	42.908	42.534	3/2/17 8:00	42.932	42.691
2/26/17 14:00	42.822	42.487	3/2/17 10:00	42.860	42.720
2/26/17 16:00	42.732	42.494	3/2/17 12:00	43.004	42.715
2/26/17 18:00	42.903	42.527	3/2/17 14:00	42.932	42.677
3/2/17 16:00	42.819	42.659	3/6/17 12:00	42.642	42.319
3/2/17 18:00	42.960	42.656	3/6/17 14:00	42.606	42.314
3/2/17 20:00	42.917	42.659	3/6/17 16:00	42.609	42.438

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
3/2/17 22:00	42.817	42.659	3/10/17 12:00	42.936	42.671
3/3/17 0:00	42.975	42.673	3/10/17 14:00	42.826	42.577
3/3/17 2:00	42.910	42.659	3/10/17 16:00	42.821	42.512
3/3/17 4:00	42.781	42.616	3/10/17 18:00	42.737	42.484
3/3/17 6:00	42.919	42.607	3/10/17 20:00	42.732	42.477
3/3/17 8:00	42.857	42.584	3/10/17 22:00	42.798	42.502
3/3/17 10:00	42.732	42.558	3/11/17 0:00	42.725	42.493
3/3/17 12:00	42.822	42.509	3/11/17 2:00	42.716	42.477
3/3/17 14:00	42.726	42.452	3/11/17 4:00	42.767	42.488
3/3/17 16:00	42.627	42.429	3/11/17 6:00	42.697	42.474
3/3/17 18:00	42.756	42.441	3/11/17 8:00	42.723	42.498
3/3/17 20:00	42.731	42.448	3/11/17 10:00	42.805	42.540
3/3/17 22:00	42.651	42.473	3/11/17 12:00	42.744	42.549
3/4/17 0:00	42.808	42.485	3/11/17 14:00	42.728	42.547
3/4/17 2:00	42.753	42.485	3/11/17 16:00	42.751	42.512
3/4/17 4:00	42.647	42.473	3/11/17 18:00	42.704	42.500
3/4/17 6:00	42.797	42.480	3/11/17 20:00	42.718	42.502
3/4/17 8:00	42.747	42.478	3/11/17 22:00	42.770	42.512
3/4/17 10:00	42.636	42.466	3/12/17 0:00	42.683	42.481
3/4/17 12:00	42.758	42.448	3/12/17 2:00	42.676	42.456
3/4/17 14:00	42.659	42.382	3/12/17 4:00	42.702	42.432
3/4/17 16:00	42.561	42.373	3/12/17 6:00	42.608	42.387
3/4/17 18:00	42.717	42.387	3/12/17 8:00	42.606	42.376
3/4/17 20:00	42.677	42.405	3/12/17 10:00	42.606	42.343
3/4/17 22:00	42.596	42.419	3/12/17 12:00	42.520	42.294
3/5/17 0:00	42.737	42.422	3/12/17 14:00	42.501	42.261
3/5/17 2:00	42.685	42.419	3/12/17 16:00	42.536	42.240
3/5/17 4:00	42.564	42.398	3/12/17 18:00	42.480	42.244
3/5/17 6:00	42.733	42.415	3/12/17 20:00	42.562	42.327
3/5/17 8:00	42.690	42.422	3/12/17 22:00	42.650	42.373
3/5/17 10:00	42.590	42.429	3/13/17 0:00	42.622	42.418
3/5/17 12:00	42.715	42.412	3/13/17 2:00	42.664	42.456
3/5/17 14:00	42.618	42.351	3/13/17 4:00	42.746	42.507
3/5/17 16:00	42.516	42.330	3/13/17 6:00	42.702	42.514
3/5/17 18:00	42.658	42.337	3/13/17 8:00	42.716	42.517
3/5/17 20:00	42.619	42.342	3/13/17 10:00	42.770	42.531
3/5/17 22:00	42.512	42.349	3/13/17 12:00	42.683	42.505
3/6/17 0:00	42.651	42.344	3/13/17 14:00	42.664	42.465
3/6/17 2:00	42.600	42.330	3/13/17 16:00	42.692	42.434
3/6/17 4:00	42.489	42.316	3/13/17 18:00	42.620	42.423
3/6/17 6:00	42.639	42.309	3/13/17 20:00	42.641	42.425
3/6/17 8:00	42.591	42.307	3/13/17 22:00	42.697	42.441
3/6/17 10:00	42.485	42.321	3/14/17 0:00	42.627	42.427
3/14/17 2:00	42.634	42.430	3/17/17 22:00	42.725	42.514
3/14/17 4:00	42.674	42.423	3/18/17 0:00	42.664	42.509
3/14/17 6:00	42.594	42.404	3/18/17 2:00	42.695	42.528
3/14/17 8:00	42.625	42.425	3/18/17 4:00	42.723	42.517

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
3/14/17 10:00	42.697	42.453	3/18/17 6:00	42.662	42.507
3/14/17 12:00	42.639	42.446	3/18/17 8:00	42.671	42.514
3/14/17 14:00	42.643	42.444	3/18/17 10:00	42.723	42.517
3/14/17 16:00	42.681	42.430	3/18/17 12:00	42.639	42.488
3/14/17 18:00	42.629	42.437	3/18/17 14:00	42.608	42.434
3/14/17 20:00	42.650	42.453	3/18/17 16:00	42.611	42.385
3/14/17 22:00	42.711	42.472	3/18/17 18:00	42.522	42.355
3/15/17 0:00	42.643	42.467	3/18/17 20:00	42.538	42.352
3/15/17 2:00	42.653	42.463	3/18/17 22:00	42.597	42.371
3/15/17 4:00	42.697	42.451	3/19/17 0:00	42.527	42.355
3/15/17 6:00	42.613	42.427	3/19/17 2:00	42.527	42.343
3/15/17 8:00	42.611	42.418	3/19/17 4:00	42.545	42.322
3/15/17 10:00	42.655	42.406	3/19/17 6:00	42.470	42.291
3/15/17 12:00	42.552	42.366	3/19/17 8:00	42.489	42.305
3/15/17 14:00	42.550	42.352	3/19/17 10:00	42.543	42.313
3/15/17 16:00	42.573	42.315	3/19/17 12:00	42.484	42.305
3/15/17 18:00	42.482	42.289	3/19/17 14:00	42.482	42.301
3/15/17 20:00	42.515	42.313	3/19/17 16:00	42.508	42.275
3/15/17 22:00	42.580	42.327	3/19/17 18:00	42.445	42.266
3/16/17 0:00	42.520	42.331	3/19/17 20:00	42.468	42.289
3/16/17 2:00	42.513	42.319	3/19/17 22:00	42.557	42.336
3/16/17 4:00	42.562	42.305	3/20/17 0:00	42.503	42.341
3/16/17 6:00	42.482	42.287	3/20/17 2:00	42.520	42.345
3/16/17 8:00	42.489	42.291	3/20/17 4:00	42.583	42.359
3/16/17 10:00	42.555	42.298	3/20/17 6:00	42.529	42.376
3/16/17 12:00	42.466	42.284	3/20/17 8:00	42.564	42.401
3/16/17 14:00	42.454	42.256	3/20/17 10:00	42.655	42.453
3/16/17 16:00	42.491	42.233	3/20/17 12:00	42.587	42.444
3/16/17 18:00	42.428	42.228	3/20/17 14:00	42.576	42.422
3/16/17 20:00	42.459	42.256	3/20/17 16:00	42.613	42.406
3/16/17 22:00	42.527	42.277	3/20/17 18:00	42.555	42.399
3/17/17 0:00	42.501	42.317	3/20/17 20:00	42.583	42.425
3/17/17 2:00	42.548	42.364	3/20/17 22:00	42.657	42.460
3/17/17 4:00	42.643	42.413	3/21/17 0:00	42.613	42.472
3/17/17 6:00	42.592	42.423	3/21/17 2:00	42.615	42.462
3/17/17 8:00	42.650	42.477	3/21/17 4:00	42.622	42.432
3/17/17 10:00	42.721	42.509	3/21/17 6:00	42.618	42.474
3/17/17 12:00	42.662	42.505	3/21/17 8:00	42.655	42.512
3/17/17 14:00	42.657	42.491	3/21/17 10:00	42.714	42.535
3/17/17 16:00	42.681	42.463	3/21/17 12:00	42.643	42.517
3/17/17 18:00	42.615	42.460	3/21/17 14:00	42.646	42.498
3/17/17 20:00	42.650	42.481	3/21/17 16:00	42.664	42.467
3/21/17 18:00	42.599	42.451	3/25/17 14:00	42.559	42.423
3/21/17 20:00	42.629	42.479	3/25/17 16:00	42.573	42.390
3/21/17 22:00	42.695	42.507	3/25/17 18:00	42.498	42.371
3/22/17 0:00	42.648	42.514	3/25/17 20:00	42.524	42.383
3/22/17 2:00	42.646	42.498	3/25/17 22:00	42.583	42.399

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
3/22/17 4:00	42.662	42.477	3/26/17 0:00	42.501	42.371
3/22/17 6:00	42.613	42.470	3/26/17 2:00	42.522	42.381
3/22/17 8:00	42.608	42.458	3/26/17 4:00	42.564	42.383
3/22/17 10:00	42.650	42.460	3/26/17 6:00	42.489	42.357
3/22/17 12:00	42.569	42.427	3/26/17 8:00	42.517	42.381
3/22/17 14:00	42.529	42.373	3/26/17 10:00	42.576	42.395
3/22/17 16:00	42.555	42.345	3/26/17 12:00	42.522	42.397
3/22/17 18:00	42.482	42.324	3/26/17 14:00	42.520	42.383
3/22/17 20:00	42.487	42.322	3/26/17 16:00	42.545	42.362
3/22/17 22:00	42.559	42.350	3/26/17 18:00	42.454	42.352
3/23/17 0:00	42.475	42.327	3/26/17 20:00	42.489	42.411
3/23/17 2:00	42.461	42.301	3/26/17 22:00	42.550	42.413
3/23/17 4:00	42.489	42.277	3/27/17 0:00	42.487	42.395
3/23/17 6:00	42.414	42.245	3/27/17 2:00	42.498	42.404
3/23/17 8:00	42.407	42.245	3/27/17 4:00	42.529	42.399
3/23/17 10:00	42.459	42.244	3/27/17 6:00	42.508	42.406
3/23/17 12:00	42.389	42.221	3/27/17 8:00	42.508	42.423
3/23/17 14:00	42.361	42.193	3/27/17 10:00	42.601	42.434
3/23/17 16:00	42.393	42.172	3/27/17 12:00	42.541	42.437
3/23/17 18:00	42.323	42.148	3/27/17 14:00	42.541	42.416
3/23/17 20:00	42.363	42.186	3/27/17 16:00	42.557	42.383
3/23/17 22:00	42.503	42.287	3/27/17 18:00	42.494	42.373
3/24/17 0:00	42.435	42.308	3/27/17 20:00	42.527	42.399
3/24/17 2:00	42.433	42.324	3/27/17 22:00	42.604	42.430
3/24/17 4:00	42.454	42.282	3/28/17 0:00	42.550	42.437
3/24/17 6:00	42.424	42.291	3/28/17 2:00	42.555	42.432
3/24/17 8:00	42.438	42.322	3/28/17 4:00	42.590	42.420
3/24/17 10:00	42.555	42.373	3/28/17 6:00	42.548	42.437
3/24/17 12:00	42.543	42.423	3/28/17 8:00	42.569	42.451
3/24/17 14:00	42.569	42.441	3/28/17 10:00	42.622	42.460
3/24/17 16:00	42.627	42.446	3/28/17 12:00	42.524	42.418
3/24/17 18:00	42.590	42.470	3/28/17 14:00	42.527	42.411
3/24/17 20:00	42.604	42.477	3/28/17 16:00	42.583	42.413
3/24/17 22:00	42.657	42.486	3/28/17 18:00	42.503	42.420
3/25/17 0:00	42.578	42.463	3/28/17 20:00	42.454	42.432
3/25/17 2:00	42.590	42.458	3/28/17 22:00	42.484	42.411
3/25/17 4:00	42.627	42.451	3/29/17 0:00	42.461	42.420
3/25/17 6:00	42.559	42.437	3/29/17 2:00	42.421	42.413
3/25/17 8:00	42.578	42.444	3/29/17 4:00	42.456	42.381
3/25/17 10:00	42.629	42.456	3/29/17 6:00	42.414	42.381
3/25/17 12:00	42.559	42.441	3/29/17 8:00	42.365	42.378
3/29/17 10:00	42.428	42.373	4/2/17 6:00	42.146	42.338
3/29/17 12:00	42.377	42.357	4/2/17 8:00	42.178	42.352
3/29/17 14:00	42.251	42.345	4/2/17 10:00	42.270	42.355
3/29/17 16:00	42.239	42.327	4/2/17 12:00	42.354	42.327
3/29/17 18:00	42.274	42.327	4/2/17 14:00	42.372	42.275
3/29/17 20:00	42.232	42.336	4/2/17 16:00	42.412	42.245

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
3/29/17 22:00	42.314	42.350	4/2/17 18:00	42.344	42.233
3/30/17 0:00	42.309	42.348	4/2/17 20:00	42.368	42.240
3/30/17 2:00	42.286	42.345	4/2/17 22:00	42.445	42.273
3/30/17 4:00	42.440	42.348	4/3/17 0:00	42.356	42.247
3/30/17 6:00	42.424	42.329	4/3/17 2:00	42.363	42.235
3/30/17 8:00	42.466	42.362	4/3/17 4:00	42.412	42.235
3/30/17 10:00	42.527	42.376	4/3/17 6:00	42.351	42.223
3/30/17 12:00	42.459	42.369	4/3/17 8:00	42.379	42.256
3/30/17 14:00	42.463	42.352	4/3/17 10:00	42.445	42.272
3/30/17 16:00	42.508	42.348	4/3/17 12:00	42.419	42.259
3/30/17 18:00	42.438	42.341	4/3/17 14:00	42.417	42.263
3/30/17 20:00	42.487	42.366	4/3/17 16:00	42.356	42.266
3/30/17 22:00	42.569	42.409	4/3/17 18:00	42.468	42.319
3/31/17 0:00	42.510	42.416	4/3/17 20:00	42.424	42.352
3/31/17 2:00	42.522	42.416	4/3/17 22:00	42.503	42.397
3/31/17 4:00	42.576	42.423	4/4/17 0:00	42.550	42.411
3/31/17 6:00	42.524	42.427	4/4/17 2:00	42.445	42.380
3/31/17 8:00	42.555	42.451	4/4/17 4:00	42.498	42.395
3/31/17 10:00	42.646	42.500	4/4/17 6:00	42.552	42.406
3/31/17 12:00	42.552	42.463	4/4/17 8:00	42.463	42.399
3/31/17 14:00	42.562	42.465	4/4/17 10:00	42.536	42.425
3/31/17 16:00	42.613	42.465	4/4/17 12:00	42.513	42.329
3/31/17 18:00	42.541	42.456	4/4/17 14:00	42.513	42.364
3/31/17 20:00	42.559	42.465	4/4/17 16:00	42.470	42.380
3/31/17 22:00	42.648	42.505	4/4/17 18:00	42.522	42.376
4/1/17 0:00	42.585	42.512	4/4/17 20:00	42.515	42.392
4/1/17 2:00	42.597	42.500	4/4/17 22:00	42.522	42.430
4/1/17 4:00	42.655	42.514	4/5/17 0:00	42.557	42.420
4/1/17 6:00	42.484	42.477	4/5/17 2:00	42.538	42.430
4/1/17 8:00	42.442	42.500	4/5/17 4:00	42.527	42.444
4/1/17 10:00	42.361	42.498	4/5/17 6:00	42.592	42.458
4/1/17 12:00	42.398	42.479	4/5/17 8:00	42.569	42.460
4/1/17 14:00	42.276	42.467	4/5/17 10:00	42.571	42.470
4/1/17 16:00	42.054	42.420	4/5/17 12:00	42.578	42.472
4/1/17 18:00	41.945	42.395	4/5/17 14:00	42.501	42.444
4/1/17 20:00	41.966	42.420	4/5/17 16:00	42.531	42.432
4/1/17 22:00	42.204	42.420	4/5/17 18:00	42.573	42.434
4/2/17 0:00	42.248	42.404	4/5/17 20:00	42.503	42.446
4/2/17 2:00	42.169	42.395	4/5/17 22:00	42.566	42.472
4/2/17 4:00	42.230	42.359	4/6/17 0:00	42.601	42.481
4/6/17 2:00	42.609	42.495	4/9/17 22:00	42.552	42.467
4/6/17 4:00	42.583	42.500	4/10/17 0:00	42.573	42.479
4/6/17 6:00	42.622	42.495	4/10/17 2:00	42.498	42.488
4/6/17 8:00	42.625	42.526	4/10/17 4:00	42.587	42.509
4/6/17 10:00	42.634	42.540	4/10/17 6:00	42.602	42.516
4/6/17 12:00	42.636	42.537	4/10/17 8:00	42.562	42.517
4/6/17 14:00	42.536	42.493	4/10/17 10:00	42.629	42.559

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
4/6/17 16:00	42.559	42.467	4/10/17 12:00	42.634	42.596
4/6/17 18:00	42.576	42.446	4/10/17 14:00	42.613	42.556
4/6/17 20:00	42.487	42.432	4/10/17 16:00	42.611	42.559
4/6/17 22:00	42.557	42.456	4/10/17 18:00	42.625	42.556
4/7/17 0:00	42.583	42.453	4/10/17 20:00	42.618	42.556
4/7/17 2:00	42.503	42.437	4/10/17 22:00	42.625	42.580
4/7/17 4:00	42.520	42.427	4/11/17 0:00	42.627	42.580
4/7/17 6:00	42.541	42.406	4/11/17 2:00	42.630	42.563
4/7/17 8:00	42.461	42.406	4/11/17 4:00	42.599	42.554
4/7/17 10:00	42.506	42.392	4/11/17 6:00	42.632	42.559
4/7/17 12:00	42.480	42.352	4/11/17 8:00	42.592	42.573
4/7/17 14:00	42.426	42.296	4/11/17 10:00	42.648	42.568
4/7/17 16:00	42.379	42.235	4/11/17 12:00	42.622	42.552
4/7/17 18:00	42.391	42.252	4/11/17 14:00	42.559	42.472
4/7/17 20:00	42.382	42.254	4/11/17 16:00	42.491	42.427
4/7/17 22:00	42.368	42.265	4/11/17 18:00	42.501	42.409
4/8/17 0:00	42.382	42.249	4/11/17 20:00	42.417	42.411
4/8/17 2:00	42.326	42.233	4/11/17 22:00	42.543	42.456
4/8/17 4:00	42.349	42.221	4/12/17 0:00	42.566	42.441
4/8/17 6:00	42.349	42.216	4/12/17 2:00	42.475	42.434
4/8/17 8:00	42.333	42.233	4/12/17 4:00	42.508	42.437
4/8/17 10:00	42.358	42.242	4/12/17 6:00	42.522	42.420
4/8/17 12:00	42.396	42.256	4/12/17 8:00	42.417	42.411
4/8/17 14:00	42.377	42.245	4/12/17 10:00	42.510	42.406
4/8/17 16:00	42.351	42.235	4/12/17 12:00	42.491	42.399
4/8/17 18:00	42.351	42.218	4/12/17 14:00	42.372	42.338
4/8/17 20:00	42.358	42.230	4/12/17 16:00	42.410	42.310
4/8/17 22:00	42.358	42.254	4/12/17 18:00	42.450	42.362
4/9/17 0:00	42.356	42.249	4/12/17 20:00	42.498	42.406
4/9/17 2:00	42.358	42.237	4/12/17 22:00	42.506	42.446
4/9/17 4:00	42.335	42.240	4/13/17 0:00	42.536	42.460
4/9/17 6:00	42.344	42.235	4/13/17 2:00	42.513	42.441
4/9/17 8:00	42.391	42.273	4/13/17 4:00	42.494	42.444
4/9/17 10:00	42.382	42.291	4/13/17 6:00	42.529	42.448
4/9/17 12:00	42.424	42.308	4/13/17 8:00	42.463	42.460
4/9/17 14:00	42.412	42.305	4/13/17 10:00	42.555	42.474
4/9/17 16:00	42.384	42.296	4/13/17 12:00	42.550	42.462
4/9/17 18:00	42.433	42.317	4/13/17 14:00	42.429	42.439
4/9/17 20:00	42.480	42.406	4/13/17 16:00	42.484	42.402
4/13/17 18:00	42.403	42.399	4/17/17 14:00	42.489	42.430
4/13/17 20:00	42.321	42.383	4/17/17 16:00	42.435	42.399
4/13/17 22:00	42.342	42.392	4/17/17 18:00	42.435	42.364
4/14/17 0:00	42.431	42.383	4/17/17 20:00	42.351	42.364
4/14/17 2:00	42.440	42.359	4/17/17 22:00	42.459	42.381
4/14/17 4:00	42.316	42.338	4/18/17 0:00	42.468	42.383
4/14/17 6:00	42.307	42.315	4/18/17 2:00	42.347	42.369
4/14/17 8:00	42.286	42.322	4/18/17 4:00	42.436	42.366

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
4/14/17 10:00	42.291	42.319	4/18/17 6:00	42.447	42.362
4/14/17 12:00	42.309	42.291	4/18/17 8:00	42.382	42.383
4/14/17 14:00	42.297	42.258	4/18/17 10:00	42.466	42.401
4/14/17 16:00	42.335	42.252	4/18/17 12:00	42.456	42.385
4/14/17 18:00	42.351	42.245	4/18/17 14:00	42.372	42.371
4/14/17 20:00	42.276	42.252	4/18/17 16:00	42.433	42.371
4/14/17 22:00	42.375	42.279	4/18/17 18:00	42.431	42.359
4/15/17 0:00	42.417	42.298	4/18/17 20:00	42.358	42.357
4/15/17 2:00	42.368	42.331	4/18/17 22:00	42.454	42.387
4/15/17 4:00	42.396	42.317	4/19/17 0:00	42.456	42.383
4/15/17 6:00	42.424	42.338	4/19/17 2:00	42.445	42.381
4/15/17 8:00	42.333	42.331	4/19/17 4:00	42.398	42.364
4/15/17 10:00	42.445	42.366	4/19/17 6:00	42.389	42.336
4/15/17 12:00	42.454	42.394	4/19/17 8:00	42.391	42.334
4/15/17 14:00	42.400	42.390	4/19/17 10:00	42.354	42.329
4/15/17 16:00	42.466	42.399	4/19/17 12:00	42.384	42.317
4/15/17 18:00	42.503	42.420	4/19/17 14:00	42.384	42.317
4/15/17 20:00	42.424	42.423	4/19/17 16:00	42.403	42.388
4/15/17 22:00	42.520	42.451	4/19/17 18:00	42.457	42.413
4/16/17 0:00	42.562	42.493	4/19/17 20:00	42.408	42.430
4/16/17 2:00	42.459	42.495	4/19/17 22:00	42.517	42.481
4/16/17 4:00	42.550	42.502	4/20/17 0:00	42.571	42.521
4/16/17 6:00	42.569	42.516	4/20/17 2:00	42.531	42.573
4/16/17 8:00	42.522	42.531	4/20/17 4:00	42.606	42.575
4/16/17 10:00	42.573	42.549	4/20/17 6:00	42.541	42.533
4/16/17 12:00	42.498	42.547	4/20/17 8:00	42.468	42.533
4/16/17 14:00	42.506	42.519	4/20/17 10:00	42.581	42.545
4/16/17 16:00	42.531	42.488	4/20/17 12:00	42.569	42.535
4/16/17 18:00	42.536	42.481	4/20/17 14:00	42.459	42.498
4/16/17 20:00	42.468	42.467	4/20/17 16:00	42.498	42.456
4/16/17 22:00	42.531	42.495	4/20/17 18:00	42.487	42.434
4/17/17 0:00	42.541	42.491	4/20/17 20:00	42.417	42.432
4/17/17 2:00	42.473	42.481	4/20/17 22:00	42.513	42.472
4/17/17 4:00	42.527	42.479	4/21/17 0:00	42.545	42.498
4/17/17 6:00	42.529	42.479	4/21/17 2:00	42.431	42.472
4/17/17 8:00	42.550	42.495	4/21/17 4:00	42.459	42.474
4/17/17 10:00	42.510	42.486	4/21/17 6:00	42.524	42.500
4/17/17 12:00	42.527	42.470	4/21/17 8:00	42.407	42.441
4/21/17 10:00	42.494	42.456	4/25/17 6:00	42.316	42.287
4/21/17 12:00	42.508	42.463	4/25/17 8:00	42.216	42.294
4/21/17 14:00	42.426	42.439	4/25/17 10:00	42.375	42.354
4/21/17 16:00	42.489	42.458	4/25/17 12:00	42.366	42.343
4/21/17 18:00	42.529	42.472	4/25/17 14:00	42.302	42.364
4/21/17 20:00	42.436	42.486	4/25/17 16:00	42.398	42.362
4/21/17 22:00	42.531	42.524	4/25/17 18:00	42.407	42.401
4/22/17 0:00	42.508	42.519	4/25/17 20:00	42.335	42.425
4/22/17 2:00	42.379	42.512	4/25/17 22:00	42.461	42.455

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
4/22/17 4:00	42.536	42.507	4/26/17 0:00	42.461	42.467
4/22/17 6:00	42.545	42.509	4/26/17 2:00	42.368	42.451
4/22/17 8:00	42.461	42.537	4/26/17 4:00	42.471	42.474
4/22/17 10:00	42.581	42.547	4/26/17 6:00	42.457	42.463
4/22/17 12:00	42.569	42.535	4/26/17 8:00	42.412	42.472
4/22/17 14:00	42.468	42.509	4/26/17 10:00	42.459	42.462
4/22/17 16:00	42.517	42.486	4/26/17 12:00	42.459	42.453
4/22/17 18:00	42.508	42.472	4/26/17 14:00	42.356	42.441
4/22/17 20:00	42.445	42.463	4/26/17 16:00	42.445	42.441
4/22/17 22:00	42.501	42.486	4/26/17 18:00	42.412	42.408
4/23/17 0:00	42.517	42.481	4/26/17 20:00	42.321	42.397
4/23/17 2:00	42.452	42.476	4/26/17 22:00	42.438	42.434
4/23/17 4:00	42.482	42.456	4/27/17 0:00	42.449	42.446
4/23/17 6:00	42.491	42.444	4/27/17 2:00	42.363	42.444
4/23/17 8:00	42.400	42.441	4/27/17 4:00	42.426	42.418
4/23/17 10:00	42.475	42.441	4/27/17 6:00	42.403	42.411
4/23/17 12:00	42.456	42.420	4/27/17 8:00	42.414	42.420
4/23/17 14:00	42.340	42.359	4/27/17 10:00	42.424	42.434
4/23/17 16:00	42.368	42.324	4/27/17 12:00	42.440	42.411
4/23/17 18:00	42.379	42.296	4/27/17 14:00	42.314	42.378
4/23/17 20:00	42.234	42.284	4/27/17 16:00	42.386	42.376
4/23/17 22:00	42.356	42.301	4/27/17 18:00	42.351	42.378
4/24/17 0:00	42.358	42.291	4/27/17 20:00	42.237	42.329
4/24/17 2:00	42.235	42.286	4/27/17 22:00	42.405	42.408
4/24/17 4:00	42.314	42.258	4/28/17 0:00	42.387	42.399
4/24/17 6:00	42.281	42.228	4/28/17 2:00	42.234	42.380
4/24/17 8:00	42.213	42.237	4/28/17 4:00	42.328	42.373
4/24/17 10:00	42.281	42.233	4/28/17 6:00	42.316	42.369
4/24/17 12:00	42.279	42.219	4/28/17 8:00	42.209	42.371
4/24/17 14:00	42.181	42.221	4/28/17 10:00	42.363	42.408
4/24/17 16:00	42.288	42.237	4/28/17 12:00	42.396	42.444
4/24/17 18:00	42.302	42.247	4/28/17 14:00	42.372	42.481
4/24/17 20:00	42.223	42.263	4/28/17 16:00	42.498	42.528
4/24/17 22:00	42.330	42.286	4/28/17 18:00	42.541	42.540
4/25/17 0:00	42.351	42.303	4/28/17 20:00	42.464	42.575
4/25/17 2:00	42.200	42.284	4/28/17 22:00	42.609	42.626
4/25/17 4:00	42.314	42.270	4/29/17 0:00	42.590	42.603
4/29/17 2:00	42.436	42.554	5/2/17 22:00	42.368	42.263
4/29/17 4:00	42.534	42.545	5/3/17 0:00	42.380	42.256
4/29/17 6:00	42.555	42.563	5/3/17 2:00	42.305	42.256
4/29/17 8:00	42.370	42.558	5/3/17 4:00	42.354	42.249
4/29/17 10:00	42.454	42.535	5/3/17 6:00	42.391	42.263
4/29/17 12:00	42.510	42.540	5/3/17 8:00	42.330	42.289
4/29/17 14:00	42.384	42.512	5/3/17 10:00	42.375	42.247
4/29/17 16:00	42.400	42.483	5/3/17 12:00	42.419	42.298
4/29/17 18:00	42.396	42.486	5/3/17 14:00	42.279	42.287
4/29/17 20:00	42.253	42.479	5/3/17 16:00	42.267	42.317

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
4/29/17 22:00	42.333	42.479	5/3/17 18:00	42.417	42.322
4/30/17 0:00	42.237	42.479	5/3/17 20:00	42.300	42.322
4/30/17 2:00	42.036	42.394	5/3/17 22:00	42.445	42.366
4/30/17 4:00	42.108	42.359	5/4/17 0:00	42.466	42.380
4/30/17 6:00	41.977	42.282	5/4/17 2:00	42.344	42.359
4/30/17 8:00	42.001	42.226	5/4/17 4:00	42.412	42.345
4/30/17 10:00	42.022	42.233	5/4/17 6:00	42.433	42.336
4/30/17 12:00	42.064	42.242	5/4/17 8:00	42.337	42.350
4/30/17 14:00	42.045	42.247	5/4/17 10:00	42.438	42.380
4/30/17 16:00	42.015	42.245	5/4/17 12:00	42.445	42.373
4/30/17 18:00	41.987	42.237	5/4/17 14:00	42.326	42.343
4/30/17 20:00	41.879	42.230	5/4/17 16:00	42.389	42.345
4/30/17 22:00	41.891	42.233	5/4/17 18:00	42.408	42.329
5/1/17 0:00	41.903	42.214	5/4/17 20:00	42.293	42.315
5/1/17 2:00	41.821	42.204	5/4/17 22:00	42.403	42.336
5/1/17 4:00	41.877	42.193	5/5/17 0:00	42.401	42.331
5/1/17 6:00	41.844	42.181	5/5/17 2:00	42.288	42.324
5/1/17 8:00	41.755	42.188	5/5/17 4:00	42.394	42.329
5/1/17 10:00	42.284	42.209	5/5/17 6:00	42.426	42.324
5/1/17 12:00	42.342	42.226	5/5/17 8:00	42.300	42.340
5/1/17 14:00	42.246	42.198	5/5/17 10:00	42.396	42.345
5/1/17 16:00	42.295	42.179	5/5/17 12:00	42.398	42.324
5/1/17 18:00	42.309	42.158	5/5/17 14:00	42.344	42.289
5/1/17 20:00	42.230	42.162	5/5/17 16:00	42.286	42.268
5/1/17 22:00	42.340	42.207	5/5/17 18:00	42.295	42.240
5/2/17 0:00	42.384	42.230	5/5/17 20:00	42.227	42.242
5/2/17 2:00	42.300	42.235	5/5/17 22:00	42.326	42.272
5/2/17 4:00	42.361	42.237	5/6/17 0:00	42.349	42.279
5/2/17 6:00	42.382	42.233	5/6/17 2:00	42.272	42.286
5/2/17 8:00	42.319	42.254	5/6/17 4:00	42.333	42.286
5/2/17 10:00	42.377	42.272	5/6/17 6:00	42.363	42.298
5/2/17 12:00	42.414	42.275	5/6/17 8:00	42.361	42.310
5/2/17 14:00	42.307	42.270	5/6/17 10:00	42.337	42.315
5/2/17 16:00	42.358	42.249	5/6/17 12:00	42.347	42.301
5/2/17 18:00	42.354	42.244	5/6/17 14:00	42.258	42.284
5/2/17 20:00	42.297	42.251	5/6/17 16:00	42.307	42.273
5/6/17 18:00	42.307	42.256	5/10/17 14:00	42.281	42.383
5/6/17 20:00	42.225	42.259	5/10/17 16:00	42.354	42.390
5/6/17 22:00	42.347	42.296	5/10/17 18:00	42.375	42.394
5/7/17 0:00	42.368	42.310	5/10/17 20:00	42.319	42.415
5/7/17 2:00	42.260	42.310	5/10/17 22:00	42.401	42.441
5/7/17 4:00	42.358	42.322	5/11/17 0:00	42.398	42.422
5/7/17 6:00	42.361	42.319	5/11/17 2:00	42.321	42.422
5/7/17 8:00	42.258	42.312	5/11/17 4:00	42.394	42.453
5/7/17 10:00	42.335	42.305	5/11/17 6:00	42.349	42.462
5/7/17 12:00	42.305	42.291	5/11/17 8:00	42.183	42.409
5/7/17 14:00	42.207	42.261	5/11/17 10:00	42.307	42.448

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
5/7/17 16:00	42.265	42.247	5/11/17 12:00	42.333	42.462
5/7/17 18:00	42.279	42.242	5/11/17 14:00	42.239	42.472
5/7/17 20:00	42.255	42.254	5/11/17 16:00	42.321	42.460
5/7/17 22:00	42.316	42.301	5/11/17 18:00	42.356	42.411
5/8/17 0:00	42.344	42.331	5/11/17 20:00	42.309	42.422
5/8/17 2:00	42.382	42.369	5/11/17 22:00	42.412	42.462
5/8/17 4:00	42.321	42.350	5/12/17 0:00	42.424	42.465
5/8/17 6:00	42.342	42.336	5/12/17 2:00	42.326	42.451
5/8/17 8:00	42.290	42.359	5/12/17 4:00	42.401	42.458
5/8/17 10:00	42.370	42.383	5/12/17 6:00	42.408	42.451
5/8/17 12:00	42.401	42.376	5/12/17 8:00	42.323	42.444
5/8/17 14:00	42.263	42.357	5/12/17 10:00	42.398	42.448
5/8/17 16:00	42.342	42.352	5/12/17 12:00	42.396	42.437
5/8/17 18:00	42.342	42.331	5/12/17 14:00	42.291	42.408
5/8/17 20:00	42.253	42.340	5/12/17 16:00	42.344	42.392
5/8/17 22:00	42.373	42.373	5/12/17 18:00	42.340	42.371
5/9/17 0:00	42.408	42.399	5/12/17 20:00	42.256	42.364
5/9/17 2:00	42.307	42.413	5/12/17 22:00	42.340	42.385
5/9/17 4:00	42.389	42.399	5/13/17 0:00	42.356	42.390
5/9/17 6:00	42.398	42.385	5/13/17 2:00	42.256	42.373
5/9/17 8:00	42.302	42.406	5/13/17 4:00	42.326	42.376
5/9/17 10:00	42.408	42.422	5/13/17 6:00	42.323	42.357
5/9/17 12:00	42.403	42.399	5/13/17 8:00	42.239	42.357
5/9/17 14:00	42.239	42.352	5/13/17 10:00	42.312	42.362
5/9/17 16:00	42.333	42.340	5/13/17 12:00	42.295	42.336
5/9/17 18:00	42.328	42.310	5/13/17 14:00	42.181	42.296
5/9/17 20:00	42.218	42.303	5/13/17 16:00	42.239	42.279
5/9/17 22:00	42.319	42.331	5/13/17 18:00	42.239	42.265
5/10/17 0:00	42.340	42.336	5/13/17 20:00	42.162	42.265
5/10/17 2:00	42.235	42.326	5/13/17 22:00	42.244	42.279
5/10/17 4:00	42.321	42.343	5/14/17 0:00	42.265	42.291
5/10/17 6:00	42.333	42.338	5/14/17 2:00	42.171	42.284
5/10/17 8:00	42.253	42.343	5/14/17 4:00	42.237	42.282
5/10/17 10:00	42.354	42.385	5/14/17 6:00	42.249	42.279
5/10/17 12:00	42.344	42.366	5/14/17 8:00	42.176	42.294
5/14/17 10:00	42.255	42.303	5/18/17 6:00	42.202	42.153
5/14/17 12:00	42.284	42.329	5/18/17 8:00	42.143	42.155
5/14/17 14:00	42.204	42.326	5/18/17 10:00	42.221	42.162
5/14/17 16:00	42.281	42.338	5/18/17 12:00	42.200	42.139
5/14/17 18:00	42.288	42.338	5/18/17 14:00	42.111	42.118
5/14/17 20:00	42.221	42.345	5/18/17 16:00	42.148	42.085
5/14/17 22:00	42.305	42.366	5/18/17 18:00	42.122	42.059
5/15/17 0:00	42.319	42.371	5/18/17 20:00	41.741	42.106
5/15/17 2:00	42.228	42.357	5/18/17 22:00	41.767	42.073
5/15/17 4:00	42.293	42.357	5/19/17 0:00	41.699	42.050
5/15/17 6:00	42.295	42.350	5/19/17 2:00	41.599	42.052
5/15/17 8:00	42.225	42.357	5/19/17 4:00	42.099	42.050

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
5/15/17 10:00	42.298	42.364	5/19/17 6:00	42.155	42.057
5/15/17 12:00	42.302	42.357	5/19/17 8:00	41.781	42.064
5/15/17 14:00	42.195	42.331	5/19/17 10:00	41.975	42.101
5/15/17 16:00	42.249	42.315	5/19/17 12:00	42.020	42.057
5/15/17 18:00	42.235	42.289	5/19/17 14:00	41.875	42.024
5/15/17 20:00	42.162	42.287	5/19/17 16:00	41.709	42.026
5/15/17 22:00	42.314	42.390	5/19/17 18:00	41.767	42.026
5/16/17 0:00	42.293	42.352	5/19/17 20:00	41.580	41.946
5/16/17 2:00	42.167	42.308	5/19/17 22:00	41.498	41.881
5/16/17 4:00	42.251	42.315	5/20/17 0:00	41.484	41.855
5/16/17 6:00	42.230	42.289	5/20/17 2:00	41.461	41.822
5/16/17 8:00	42.162	42.303	5/20/17 4:00	41.344	41.768
5/16/17 10:00	42.237	42.312	5/20/17 6:00	41.580	41.682
5/16/17 12:00	42.246	42.310	5/20/17 8:00	41.508	41.585
5/16/17 14:00	42.155	42.303	5/20/17 10:00	41.914	41.726
5/16/17 16:00	42.207	42.284	5/20/17 12:00	41.935	41.764
5/16/17 18:00	42.186	42.319	5/20/17 14:00	41.837	41.719
5/16/17 20:00	42.006	42.228	5/20/17 16:00	41.877	41.696
5/16/17 22:00	42.157	42.230	5/20/17 18:00	41.898	41.686
5/17/17 0:00	42.230	42.272	5/20/17 20:00	41.854	41.672
5/17/17 2:00	41.903	42.310	5/20/17 22:00	41.938	41.691
5/17/17 4:00	41.788	42.265	5/21/17 0:00	41.935	41.698
5/17/17 6:00	41.720	42.233	5/21/17 2:00	41.865	41.684
5/17/17 8:00	41.713	42.200	5/21/17 4:00	41.889	41.660
5/17/17 10:00	41.706	42.167	5/21/17 6:00	41.907	41.677
5/17/17 12:00	41.648	42.125	5/21/17 8:00	41.879	41.700
5/17/17 14:00	41.889	42.233	5/21/17 10:00	41.968	41.728
5/17/17 16:00	41.839	42.214	5/21/17 12:00	41.935	41.721
5/17/17 18:00	42.174	42.249	5/21/17 14:00	41.861	41.698
5/17/17 20:00	42.157	42.249	5/21/17 16:00	41.891	41.663
5/17/17 22:00	42.239	42.251	5/21/17 18:00	41.868	41.656
5/18/17 0:00	42.244	42.233	5/21/17 20:00	41.884	41.684
5/18/17 2:00	42.157	42.197	5/21/17 22:00	41.921	41.714
5/18/17 4:00	42.209	42.169	5/22/17 0:00	41.947	41.721
5/22/17 2:00	41.879	41.728	5/25/17 22:00	41.900	41.937
5/22/17 4:00	41.868	41.719	5/26/17 0:00	41.772	41.829
5/22/17 6:00	41.879	41.703	5/26/17 2:00	41.629	41.895
5/22/17 8:00	41.786	41.672	5/26/17 4:00	41.905	41.902
5/22/17 10:00	41.900	41.710	5/26/17 6:00	41.968	41.942
5/22/17 12:00	41.884	41.710	5/26/17 8:00	41.942	41.996
5/22/17 14:00	41.854	41.679	5/26/17 10:00	42.057	42.019
5/22/17 16:00	41.798	41.642	5/26/17 12:00	42.036	42.022
5/22/17 18:00	41.844	41.651	5/26/17 14:00	41.931	41.986
5/22/17 20:00	41.800	41.682	5/26/17 16:00	42.022	41.986
5/22/17 22:00	41.783	41.761	5/26/17 18:00	41.985	41.972
5/23/17 0:00	41.657	41.754	5/26/17 20:00	41.914	41.963
5/23/17 2:00	41.456	41.609	5/26/17 22:00	42.031	41.996

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
5/23/17 4:00	41.889	41.796	5/27/17 0:00	42.008	41.993
5/23/17 6:00	41.886	41.789	5/27/17 2:00	41.940	41.998
5/23/17 8:00	41.879	41.796	5/27/17 4:00	41.741	42.080
5/23/17 10:00	41.919	41.799	5/27/17 6:00	41.690	41.951
5/23/17 12:00	41.910	41.794	5/27/17 8:00	41.487	41.799
5/23/17 14:00	41.861	41.789	5/27/17 10:00	41.751	41.998
5/23/17 16:00	41.926	41.794	5/27/17 12:00	41.952	41.982
5/23/17 18:00	41.900	41.801	5/27/17 14:00	41.875	41.946
5/23/17 20:00	41.840	41.679	5/27/17 16:00	41.956	41.932
5/23/17 22:00	41.931	41.778	5/27/17 18:00	41.956	41.921
5/24/17 0:00	41.926	41.825	5/27/17 20:00	41.882	41.904
5/24/17 2:00	41.842	41.792	5/27/17 22:00	41.996	41.923
5/24/17 4:00	41.924	41.792	5/28/17 0:00	41.973	41.900
5/24/17 6:00	41.896	41.792	5/28/17 2:00	41.891	41.871
5/24/17 8:00	41.837	41.792	5/28/17 4:00	41.959	41.853
5/24/17 10:00	41.914	41.803	5/28/17 6:00	41.935	41.829
5/24/17 12:00	41.877	41.778	5/28/17 8:00	41.863	41.836
5/24/17 14:00	41.788	41.745	5/28/17 10:00	41.968	41.853
5/24/17 16:00	41.844	41.733	5/28/17 12:00	41.949	41.850
5/24/17 18:00	41.854	41.717	5/28/17 14:00	41.837	41.818
5/24/17 20:00	41.762	41.710	5/28/17 16:00	41.900	41.799
5/24/17 22:00	41.847	41.731	5/28/17 18:00	41.903	41.803
5/25/17 0:00	41.833	41.735	5/28/17 20:00	41.833	41.789
5/25/17 2:00	41.776	41.738	5/28/17 22:00	41.882	41.792
5/25/17 4:00	41.847	41.735	5/29/17 0:00	41.942	41.827
5/25/17 6:00	41.835	41.745	5/29/17 2:00	41.819	41.818
5/25/17 8:00	41.753	41.733	5/29/17 4:00	41.928	41.843
5/25/17 10:00	41.865	41.764	5/29/17 6:00	41.924	41.843
5/25/17 12:00	41.818	41.728	5/29/17 8:00	41.847	41.846
5/25/17 14:00	41.737	41.705	5/29/17 10:00	41.956	41.862
5/25/17 16:00	41.821	41.724	5/29/17 12:00	41.942	41.869
5/25/17 18:00	41.828	41.750	5/29/17 14:00	41.823	41.832
5/25/17 20:00	41.821	41.815	5/29/17 16:00	41.933	41.843
5/29/17 18:00	41.900	41.822	6/2/17 14:00	41.741	41.822
5/29/17 20:00	41.819	41.803	6/2/17 16:00	41.828	41.813
5/29/17 22:00	41.940	41.850	6/2/17 18:00	41.805	41.801
5/30/17 0:00	41.933	41.867	6/2/17 20:00	41.732	41.808
5/30/17 2:00	41.844	41.857	6/2/17 22:00	41.851	41.848
5/30/17 4:00	41.933	41.862	6/3/17 0:00	41.868	41.876
5/30/17 6:00	41.917	41.864	6/3/17 2:00	41.779	41.867
5/30/17 8:00	41.814	41.846	6/3/17 4:00	41.870	41.862
5/30/17 10:00	41.933	41.867	6/3/17 6:00	41.861	41.874
5/30/17 12:00	41.914	41.857	6/3/17 8:00	41.791	41.888
5/30/17 14:00	41.805	41.822	6/3/17 10:00	41.865	41.886
5/30/17 16:00	41.898	41.825	6/3/17 12:00	41.854	41.878
5/30/17 18:00	41.865	41.815	6/3/17 14:00	41.753	41.846
5/30/17 20:00	41.767	41.792	6/3/17 16:00	41.840	41.841

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
5/30/17 22:00	41.905	41.834	6/3/17 18:00	41.812	41.825
5/31/17 0:00	41.898	41.853	6/3/17 20:00	41.741	41.839
5/31/17 2:00	41.812	41.848	6/3/17 22:00	41.856	41.862
5/31/17 4:00	41.882	41.839	6/4/17 0:00	41.849	41.871
5/31/17 6:00	41.889	41.855	6/4/17 2:00	41.737	41.848
5/31/17 8:00	41.826	41.867	6/4/17 4:00	41.837	41.846
5/31/17 10:00	41.912	41.862	6/4/17 6:00	41.819	41.848
5/31/17 12:00	41.898	41.862	6/4/17 8:00	41.744	41.841
5/31/17 14:00	41.798	41.843	6/4/17 10:00	41.816	41.841
5/31/17 16:00	41.865	41.834	6/4/17 12:00	41.809	41.834
5/31/17 18:00	41.849	41.820	6/4/17 14:00	41.702	41.806
5/31/17 20:00	41.781	41.827	6/4/17 16:00	41.788	41.796
5/31/17 22:00	41.893	41.848	6/4/17 18:00	41.776	41.794
6/1/17 0:00	41.889	41.864	6/4/17 20:00	41.695	41.792
6/1/17 2:00	41.748	41.801	6/4/17 22:00	41.807	41.813
6/1/17 4:00	41.891	41.860	6/5/17 0:00	41.788	41.825
6/1/17 6:00	41.849	41.829	6/5/17 2:00	41.711	41.820
6/1/17 8:00	41.793	41.850	6/5/17 4:00	41.812	41.825
6/1/17 10:00	41.900	41.874	6/5/17 6:00	41.805	41.834
6/1/17 12:00	41.863	41.848	6/5/17 8:00	41.732	41.843
6/1/17 14:00	41.760	41.815	6/5/17 10:00	41.833	41.853
6/1/17 16:00	41.805	41.782	6/5/17 12:00	41.802	41.846
6/1/17 18:00	41.798	41.778	6/5/17 14:00	41.706	41.825
6/1/17 20:00	41.725	41.782	6/5/17 16:00	41.793	41.815
6/1/17 22:00	41.816	41.803	6/5/17 18:00	41.772	41.808
6/2/17 0:00	41.830	41.829	6/5/17 20:00	41.702	41.822
6/2/17 2:00	41.760	41.827	6/5/17 22:00	41.819	41.846
6/2/17 4:00	41.844	41.829	6/6/17 0:00	41.814	41.857
6/2/17 6:00	41.858	41.853	6/6/17 2:00	41.725	41.855
6/2/17 8:00	41.791	41.864	6/6/17 4:00	41.828	41.862
6/2/17 10:00	41.889	41.867	6/6/17 6:00	41.823	41.881
6/2/17 12:00	41.858	41.857	6/6/17 8:00	41.753	41.895
6/6/17 10:00	41.861	41.911	6/10/17 6:00	41.636	41.703
6/6/17 12:00	41.840	41.907	6/10/17 8:00	41.547	41.698
6/6/17 14:00	41.741	41.883	6/10/17 10:00	41.655	41.703
6/6/17 16:00	41.840	41.888	6/10/17 12:00	41.639	41.710
6/6/17 18:00	41.713	41.874	6/10/17 14:00	41.536	41.691
6/6/17 20:00	41.732	41.881	6/10/17 16:00	41.650	41.698
6/6/17 22:00	41.849	41.904	6/10/17 18:00	41.620	41.689
6/7/17 0:00	41.858	41.932	6/10/17 20:00	41.538	41.684
6/7/17 2:00	41.748	41.904	6/10/17 22:00	41.664	41.721
6/7/17 4:00	41.856	41.914	6/11/17 0:00	41.667	41.750
6/7/17 6:00	41.828	41.916	6/11/17 2:00	41.578	41.735
6/7/17 8:00	41.751	41.909	6/11/17 4:00	41.664	41.728
6/7/17 10:00	41.858	41.918	6/11/17 6:00	41.648	41.735
6/7/17 12:00	41.819	41.900	6/11/17 8:00	41.559	41.696
6/7/17 14:00	41.720	41.874	6/11/17 10:00	41.678	41.752

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
6/7/17 16:00	41.807	41.864	6/11/17 12:00	41.660	41.750
6/7/17 18:00	41.769	41.843	6/11/17 14:00	41.568	41.740
6/7/17 20:00	41.685	41.832	6/11/17 16:00	41.685	41.754
6/7/17 22:00	41.807	41.867	6/11/17 18:00	41.655	41.747
6/8/17 0:00	41.786	41.860	6/11/17 20:00	41.585	41.759
6/8/17 2:00	41.697	41.850	6/11/17 22:00	41.730	41.810
6/8/17 4:00	41.793	41.850	6/12/17 0:00	41.711	41.818
6/8/17 6:00	41.772	41.846	6/12/17 2:00	41.625	41.815
6/8/17 8:00	41.683	41.841	6/12/17 4:00	41.730	41.820
6/8/17 10:00	41.774	41.834	6/12/17 6:00	41.704	41.818
6/8/17 12:00	41.732	41.771	6/12/17 8:00	41.627	41.825
6/8/17 14:00	41.648	41.794	6/12/17 10:00	41.737	41.836
6/8/17 16:00	41.737	41.792	6/12/17 12:00	41.706	41.825
6/8/17 18:00	41.695	41.764	6/12/17 14:00	41.585	41.778
6/8/17 20:00	41.618	41.764	6/12/17 16:00	41.676	41.773
6/8/17 22:00	41.737	41.789	6/12/17 18:00	41.639	41.750
6/9/17 0:00	41.727	41.801	6/12/17 20:00	41.550	41.740
6/9/17 2:00	41.622	41.775	6/12/17 22:00	41.681	41.775
6/9/17 4:00	41.720	41.778	6/13/17 0:00	41.671	41.792
6/9/17 6:00	41.706	41.782	6/13/17 2:00	41.592	41.794
6/9/17 8:00	41.625	41.782	6/13/17 4:00	41.688	41.782
6/9/17 10:00	41.730	41.787	6/13/17 6:00	41.669	41.796
6/9/17 12:00	41.678	41.761	6/13/17 8:00	41.575	41.778
6/9/17 14:00	41.564	41.719	6/13/17 10:00	41.667	41.771
6/9/17 16:00	41.667	41.719	6/13/17 12:00	41.627	41.745
6/9/17 18:00	41.627	41.696	6/13/17 14:00	41.522	41.724
6/9/17 20:00	41.536	41.689	6/13/17 16:00	41.622	41.712
6/9/17 22:00	41.660	41.707	6/13/17 18:00	41.582	41.691
6/10/17 0:00	41.660	41.728	6/13/17 20:00	41.272	41.733
6/10/17 2:00	41.564	41.707	6/13/17 22:00	41.636	41.775
6/10/17 4:00	41.660	41.707	6/14/17 0:00	41.695	41.825
6/14/17 2:00	41.592	41.801	6/17/17 22:00	41.695	41.843
6/14/17 4:00	41.690	41.801	6/18/17 0:00	41.709	41.886
6/14/17 6:00	41.709	41.850	6/18/17 2:00	41.613	41.874
6/14/17 8:00	41.660	41.878	6/18/17 4:00	41.727	41.916
6/14/17 10:00	41.765	41.890	6/18/17 6:00	41.625	41.909
6/14/17 12:00	41.739	41.890	6/18/17 8:00	41.632	41.907
6/14/17 14:00	41.641	41.869	6/18/17 10:00	41.739	41.914
6/14/17 16:00	41.737	41.867	6/18/17 12:00	41.688	41.888
6/14/17 18:00	41.697	41.846	6/18/17 14:00	41.646	41.848
6/14/17 20:00	41.608	41.841	6/18/17 16:00	41.625	41.820
6/14/17 22:00	41.725	41.855	6/18/17 18:00	41.620	41.818
6/15/17 0:00	41.706	41.857	6/18/17 20:00	41.526	41.799
6/15/17 2:00	41.613	41.853	6/18/17 22:00	41.655	41.827
6/15/17 4:00	41.716	41.839	6/19/17 0:00	41.650	41.848
6/15/17 6:00	41.706	41.860	6/19/17 2:00	41.568	41.853
6/15/17 8:00	41.632	41.869	6/19/17 4:00	41.695	41.876

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
6/15/17 10:00	41.727	41.862	6/19/17 6:00	41.660	41.869
6/15/17 12:00	41.681	41.834	6/19/17 8:00	41.573	41.862
6/15/17 14:00	41.554	41.792	6/19/17 10:00	41.695	41.886
6/15/17 16:00	41.657	41.785	6/19/17 12:00	41.667	41.878
6/15/17 18:00	41.625	41.768	6/19/17 14:00	41.561	41.862
6/15/17 20:00	41.543	41.768	6/19/17 16:00	41.657	41.850
6/15/17 22:00	41.683	41.813	6/19/17 18:00	41.625	41.841
6/16/17 0:00	41.681	41.832	6/19/17 20:00	41.536	41.829
6/16/17 2:00	41.566	41.796	6/19/17 22:00	41.657	41.850
6/16/17 4:00	41.685	41.818	6/20/17 0:00	41.629	41.843
6/16/17 6:00	41.655	41.808	6/20/17 2:00	41.533	41.836
6/16/17 8:00	41.552	41.787	6/20/17 4:00	41.643	41.839
6/16/17 10:00	41.653	41.782	6/20/17 6:00	41.618	41.836
6/16/17 12:00	41.601	41.750	6/20/17 8:00	41.529	41.834
6/16/17 14:00	41.491	41.717	6/20/17 10:00	41.625	41.822
6/16/17 16:00	41.561	41.700	6/20/17 12:00	41.573	41.789
6/16/17 18:00	41.538	41.679	6/20/17 14:00	41.447	41.747
6/16/17 20:00	41.445	41.663	6/20/17 16:00	41.543	41.726
6/16/17 22:00	41.571	41.686	6/20/17 18:00	41.501	41.712
6/17/17 0:00	41.594	41.735	6/20/17 20:00	41.384	41.719
6/17/17 2:00	41.505	41.735	6/20/17 22:00	41.475	41.747
6/17/17 4:00	41.620	41.745	6/21/17 0:00	41.543	41.754
6/17/17 6:00	41.604	41.757	6/21/17 2:00	41.449	41.745
6/17/17 8:00	41.519	41.754	6/21/17 4:00	41.568	41.768
6/17/17 10:00	41.646	41.780	6/21/17 6:00	41.489	41.670
6/17/17 12:00	41.613	41.773	6/21/17 8:00	41.421	41.717
6/17/17 14:00	41.517	41.754	6/21/17 10:00	41.533	41.728
6/17/17 16:00	41.622	41.761	6/21/17 12:00	41.501	41.717
6/17/17 18:00	41.627	41.801	6/21/17 14:00	41.374	41.667
6/17/17 20:00	41.587	41.846	6/21/17 16:00	41.456	41.656
6/21/17 18:00	41.435	41.644	6/25/17 14:00	41.508	41.869
6/21/17 20:00	41.349	41.646	6/25/17 16:00	41.566	41.822
6/21/17 22:00	41.484	41.684	6/25/17 18:00	41.531	41.803
6/22/17 0:00	41.279	41.742	6/25/17 20:00	41.421	41.778
6/22/17 2:00	41.108	41.705	6/25/17 22:00	41.559	41.806
6/22/17 4:00	41.505	41.696	6/26/17 0:00	41.540	41.813
6/22/17 6:00	41.484	41.703	6/26/17 2:00	41.426	41.787
6/22/17 8:00	41.388	41.686	6/26/17 4:00	41.543	41.792
6/22/17 10:00	41.475	41.660	6/26/17 6:00	41.515	41.780
6/22/17 12:00	41.431	41.674	6/26/17 8:00	41.419	41.778
6/22/17 14:00	41.402	41.651	6/26/17 10:00	41.503	41.757
6/22/17 16:00	41.431	41.660	6/26/17 12:00	41.478	41.742
6/22/17 18:00	41.449	41.672	6/26/17 14:00	41.356	41.700
6/22/17 20:00	41.405	41.712	6/26/17 16:00	41.442	41.674
6/22/17 22:00	41.580	41.789	6/26/17 18:00	41.435	41.686
6/23/17 0:00	41.587	41.822	6/26/17 20:00	41.353	41.693
6/23/17 2:00	41.515	41.841	6/26/17 22:00	41.496	41.728

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
6/23/17 4:00	41.606	41.820	6/27/17 0:00	41.491	41.754
6/23/17 6:00	41.620	41.895	6/27/17 2:00	41.386	41.735
6/23/17 8:00	41.395	41.883	6/27/17 4:00	41.456	41.710
6/23/17 10:00	41.566	41.965	6/27/17 6:00	41.438	41.705
6/23/17 12:00	41.664	41.928	6/27/17 8:00	41.339	41.682
6/23/17 14:00	41.540	41.890	6/27/17 10:00	41.410	41.663
6/23/17 16:00	41.611	41.857	6/27/17 12:00	41.372	41.637
6/23/17 18:00	41.582	41.834	6/27/17 14:00	41.246	41.590
6/23/17 20:00	41.505	41.839	6/27/17 16:00	41.316	41.553
6/23/17 22:00	41.650	41.883	6/27/17 18:00	41.286	41.543
6/24/17 0:00	41.653	41.911	6/27/17 20:00	41.192	41.524
6/24/17 2:00	41.550	41.902	6/27/17 22:00	41.318	41.550
6/24/17 4:00	41.664	41.907	6/28/17 0:00	41.351	41.602
6/24/17 6:00	41.632	41.897	6/28/17 2:00	41.290	41.630
6/24/17 8:00	41.550	41.907	6/28/17 4:00	41.391	41.632
6/24/17 10:00	41.681	41.930	6/28/17 6:00	41.342	41.595
6/24/17 12:00	41.646	41.914	6/28/17 8:00	41.276	41.623
6/24/17 14:00	41.527	41.886	6/28/17 10:00	41.388	41.630
6/24/17 16:00	41.622	41.857	6/28/17 12:00	41.367	41.635
6/24/17 18:00	41.571	41.822	6/28/17 14:00	41.239	41.614
6/24/17 20:00	41.470	41.806	6/28/17 16:00	41.381	41.616
6/24/17 22:00	41.608	41.843	6/28/17 18:00	41.344	41.609
6/25/17 0:00	41.608	41.871	6/28/17 20:00	41.309	41.621
6/25/17 2:00	41.505	41.855	6/28/17 22:00	41.398	41.646
6/25/17 4:00	41.613	41.860	6/29/17 0:00	41.337	41.644
6/25/17 6:00	41.618	41.893	6/29/17 2:00	41.337	41.651
6/25/17 8:00	41.529	41.890	6/29/17 4:00	41.391	41.649
6/25/17 10:00	41.636	41.890	6/29/17 6:00	41.267	41.771
6/25/17 12:00	41.613	41.890	6/29/17 8:00	41.197	41.644
6/29/17 10:00	41.442	41.710	7/3/17 6:00	41.033	41.667
6/29/17 12:00	41.374	41.700	7/3/17 8:00	41.325	41.691
6/29/17 14:00	41.363	41.696	7/3/17 10:00	41.377	41.714
6/29/17 16:00	41.426	41.703	7/3/17 12:00	41.321	41.684
6/29/17 18:00	41.351	41.679	7/3/17 14:00	41.302	41.639
6/29/17 20:00	41.353	41.691	7/3/17 16:00	41.330	41.621
6/29/17 22:00	41.496	41.780	7/3/17 18:00	41.244	41.555
6/30/17 0:00	41.262	41.667	7/3/17 20:00	41.248	41.553
6/30/17 2:00	41.410	41.766	7/3/17 22:00	41.314	41.569
6/30/17 4:00	41.487	41.771	7/4/17 0:00	41.265	41.555
6/30/17 6:00	41.463	41.801	7/4/17 2:00	41.260	41.546
6/30/17 8:00	41.491	41.846	7/4/17 4:00	41.304	41.548
6/30/17 10:00	41.498	41.806	7/4/17 6:00	41.253	41.536
6/30/17 12:00	41.456	41.815	7/4/17 8:00	41.272	41.555
6/30/17 14:00	41.459	41.822	7/4/17 10:00	41.332	41.581
6/30/17 16:00	41.480	41.794	7/4/17 12:00	41.270	41.562
6/30/17 18:00	41.402	41.759	7/4/17 14:00	41.265	41.546
6/30/17 20:00	41.391	41.759	7/4/17 16:00	41.300	41.548

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
6/30/17 22:00	41.475	41.782	7/4/17 18:00	41.244	41.529
7/1/17 0:00	41.447	41.803	7/4/17 20:00	41.218	41.543
7/1/17 2:00	41.421	41.789	7/4/17 22:00	41.330	41.590
7/1/17 4:00	41.475	41.780	7/5/17 0:00	41.297	41.602
7/1/17 6:00	41.433	41.787	7/5/17 2:00	41.307	41.609
7/1/17 8:00	41.417	41.792	7/5/17 4:00	41.328	41.599
7/1/17 10:00	41.482	41.803	7/5/17 6:00	41.290	41.602
7/1/17 12:00	41.402	41.768	7/5/17 8:00	41.316	41.623
7/1/17 14:00	41.365	41.731	7/5/17 10:00	41.351	41.630
7/1/17 16:00	41.410	41.717	7/5/17 12:00	41.290	41.618
7/1/17 18:00	41.332	41.691	7/5/17 14:00	41.281	41.595
7/1/17 20:00	41.328	41.693	7/5/17 16:00	41.307	41.590
7/1/17 22:00	41.407	41.712	7/5/17 18:00	41.244	41.569
7/2/17 0:00	41.358	41.724	7/5/17 20:00	41.248	41.567
7/2/17 2:00	41.342	41.714	7/5/17 22:00	41.307	41.588
7/2/17 4:00	41.417	41.724	7/6/17 0:00	41.262	41.592
7/2/17 6:00	41.363	41.726	7/6/17 2:00	41.279	41.611
7/2/17 8:00	41.351	41.728	7/6/17 4:00	41.356	41.658
7/2/17 10:00	41.412	41.738	7/6/17 6:00	41.272	41.611
7/2/17 12:00	41.346	41.719	7/6/17 8:00	41.253	41.602
7/2/17 14:00	41.330	41.703	7/6/17 10:00	41.293	41.602
7/2/17 16:00	41.386	41.700	7/6/17 12:00	41.227	41.574
7/2/17 18:00	41.288	41.656	7/6/17 14:00	41.218	41.560
7/2/17 20:00	41.309	41.689	7/6/17 16:00	41.395	41.553
7/2/17 22:00	41.395	41.719	7/6/17 18:00	41.276	41.562
7/3/17 0:00	41.286	41.820	7/6/17 20:00	41.269	41.566
7/3/17 2:00	41.195	41.825	7/6/17 22:00	41.365	41.606
7/3/17 4:00	41.108	41.621	7/7/17 0:00	41.328	41.623
7/7/17 2:00	41.304	41.611	7/10/17 22:00	41.276	41.543
7/7/17 4:00	41.377	41.635	7/11/17 0:00	41.241	41.543
7/7/17 6:00	41.314	41.621	7/11/17 2:00	41.273	41.543
7/7/17 8:00	41.351	41.663	7/11/17 4:00	41.320	41.557
7/7/17 10:00	41.400	41.696	7/11/17 6:00	41.241	41.531
7/7/17 12:00	41.338	41.663	7/11/17 8:00	41.265	41.527
7/7/17 14:00	41.339	41.630	7/11/17 10:00	41.297	41.534
7/7/17 16:00	41.380	41.625	7/11/17 12:00	41.255	41.529
7/7/17 18:00	41.295	41.597	7/11/17 14:00	41.224	41.503
7/7/17 20:00	41.320	41.604	7/11/17 16:00	41.253	41.494
7/7/17 22:00	41.367	41.614	7/11/17 18:00	41.205	41.478
7/8/17 0:00	41.303	41.616	7/11/17 20:00	41.213	41.485
7/8/17 2:00	41.306	41.590	7/11/17 22:00	41.275	41.524
7/8/17 4:00	41.384	41.644	7/12/17 0:00	41.248	41.541
7/8/17 6:00	41.304	41.611	7/12/17 2:00	41.285	41.550
7/8/17 8:00	41.314	41.597	7/12/17 4:00	41.342	41.578
7/8/17 10:00	41.348	41.606	7/12/17 6:00	41.265	41.597
7/8/17 12:00	41.279	41.588	7/12/17 8:00	41.192	41.585
7/8/17 14:00	41.296	41.578	7/12/17 10:00	41.373	41.614

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
7/8/17 16:00	41.317	41.567	7/12/17 12:00	41.304	41.604
7/8/17 18:00	41.234	41.529	7/12/17 14:00	41.352	41.625
7/8/17 20:00	41.260	41.531	7/12/17 16:00	41.376	41.632
7/8/17 22:00	41.315	41.564	7/12/17 18:00	41.297	41.609
7/9/17 0:00	41.269	41.571	7/12/17 20:00	41.332	41.611
7/9/17 2:00	41.315	41.581	7/12/17 22:00	41.417	41.665
7/9/17 4:00	41.341	41.585	7/13/17 0:00	41.126	41.642
7/9/17 6:00	41.263	41.560	7/13/17 2:00	41.059	41.742
7/9/17 8:00	41.276	41.550	7/13/17 4:00	41.013	41.698
7/9/17 10:00	41.312	41.562	7/13/17 6:00	40.926	41.674
7/9/17 12:00	41.236	41.536	7/13/17 8:00	40.964	41.693
7/9/17 14:00	41.247	41.513	7/13/17 10:00	41.458	41.721
7/9/17 16:00	41.274	41.520	7/13/17 12:00	41.412	41.728
7/9/17 18:00	41.207	41.485	7/13/17 14:00	41.413	41.707
7/9/17 20:00	41.187	41.470	7/13/17 16:00	41.450	41.707
7/9/17 22:00	41.251	41.524	7/13/17 18:00	41.335	41.644
7/10/17 0:00	41.221	41.520	7/13/17 20:00	41.382	41.658
7/10/17 2:00	41.269	41.524	7/13/17 22:00	41.439	41.693
7/10/17 4:00	41.289	41.529	7/14/17 0:00	41.373	41.682
7/10/17 6:00	41.241	41.531	7/14/17 2:00	41.383	41.672
7/10/17 8:00	41.269	41.538	7/14/17 4:00	41.428	41.677
7/10/17 10:00	41.323	41.567	7/14/17 6:00	41.357	41.665
7/10/17 12:00	41.240	41.534	7/14/17 8:00	41.405	41.684
7/10/17 14:00	41.255	41.520	7/14/17 10:00	41.438	41.700
7/10/17 16:00	41.291	41.534	7/14/17 12:00	41.368	41.684
7/10/17 18:00	41.229	41.513	7/14/17 14:00	41.369	41.658
7/10/17 20:00	41.218	41.501	7/14/17 16:00	41.400	41.651
7/14/17 18:00	41.308	41.616	7/18/17 14:00	41.286	41.534
7/14/17 20:00	41.342	41.621	7/18/17 16:00	41.313	41.543
7/14/17 22:00	41.404	41.646	7/18/17 18:00	41.242	41.520
7/15/17 0:00	41.346	41.651	7/18/17 20:00	41.268	41.515
7/15/17 2:00	41.387	41.663	7/18/17 22:00	41.337	41.571
7/15/17 4:00	41.406	41.656	7/19/17 0:00	41.275	41.555
7/15/17 6:00	41.340	41.644	7/19/17 2:00	41.325	41.571
7/15/17 8:00	41.370	41.646	7/19/17 4:00	41.357	41.576
7/15/17 10:00	41.415	41.663	7/19/17 6:00	41.299	41.562
7/15/17 12:00	41.334	41.637	7/19/17 8:00	41.330	41.567
7/15/17 14:00	41.347	41.621	7/19/17 10:00	41.355	41.571
7/15/17 16:00	41.362	41.604	7/19/17 12:00	41.280	41.538
7/15/17 18:00	41.288	41.585	7/19/17 14:00	41.290	41.522
7/15/17 20:00	41.317	41.585	7/19/17 16:00	41.312	41.527
7/15/17 22:00	41.365	41.602	7/19/17 18:00	41.250	41.492
7/16/17 0:00	41.312	41.611	7/19/17 20:00	41.221	41.473
7/16/17 2:00	41.327	41.592	7/19/17 22:00	41.299	41.534
7/16/17 4:00	41.364	41.606	7/20/17 0:00	41.253	41.478
7/16/17 6:00	41.312	41.606	7/20/17 2:00	41.306	41.536
7/16/17 8:00	41.341	41.609	7/20/17 4:00	41.337	41.548

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
7/16/17 10:00	41.386	41.625	7/20/17 6:00	41.287	41.548
7/16/17 12:00	41.286	41.588	7/20/17 8:00	41.328	41.555
7/16/17 14:00	41.278	41.499	7/20/17 10:00	41.355	41.564
7/16/17 16:00	41.323	41.569	7/20/17 12:00	41.283	41.543
7/16/17 18:00	41.257	41.536	7/20/17 14:00	41.287	41.510
7/16/17 20:00	41.248	41.522	7/20/17 16:00	41.304	41.503
7/16/17 22:00	41.324	41.564	7/20/17 18:00	41.216	41.466
7/17/17 0:00	41.277	41.571	7/20/17 20:00	41.236	41.463
7/17/17 2:00	41.308	41.569	7/20/17 22:00	41.298	41.494
7/17/17 4:00	41.342	41.576	7/21/17 0:00	41.252	41.501
7/17/17 6:00	41.278	41.567	7/21/17 2:00	41.274	41.492
7/17/17 8:00	41.312	41.569	7/21/17 4:00	41.309	41.503
7/17/17 10:00	41.348	41.585	7/21/17 6:00	41.242	41.482
7/17/17 12:00	41.271	41.557	7/21/17 8:00	41.283	41.496
7/17/17 14:00	41.273	41.527	7/21/17 10:00	41.305	41.496
7/17/17 16:00	41.292	41.522	7/21/17 12:00	41.238	41.482
7/17/17 18:00	41.219	41.496	7/21/17 14:00	41.251	41.468
7/17/17 20:00	41.283	41.555	7/21/17 16:00	41.273	41.456
7/17/17 22:00	41.093	41.576	7/21/17 18:00	41.213	41.442
7/18/17 0:00	40.925	41.506	7/21/17 20:00	41.226	41.438
7/18/17 2:00	41.312	41.442	7/21/17 22:00	41.306	41.501
7/18/17 4:00	41.341	41.567	7/22/17 0:00	41.245	41.496
7/18/17 6:00	41.295	41.567	7/22/17 2:00	41.290	41.510
7/18/17 8:00	41.327	41.585	7/22/17 4:00	41.326	41.520
7/18/17 10:00	41.356	41.585	7/22/17 6:00	41.264	41.508
7/18/17 12:00	41.277	41.548	7/22/17 8:00	41.312	41.531
7/22/17 10:00	41.369	41.567	7/26/17 6:00	41.065	41.527
7/22/17 12:00	41.307	41.564	7/26/17 8:00	41.024	41.506
7/22/17 14:00	41.322	41.548	7/26/17 10:00	41.258	41.538
7/22/17 16:00	41.363	41.564	7/26/17 12:00	41.428	41.541
7/22/17 18:00	41.287	41.557	7/26/17 14:00	41.338	41.567
7/22/17 20:00	41.349	41.581	7/26/17 16:00	41.357	41.581
7/22/17 22:00	41.400	41.604	7/26/17 18:00	41.312	41.576
7/23/17 0:00	41.305	41.562	7/26/17 20:00	41.366	41.590
7/23/17 2:00	41.353	41.583	7/26/17 22:00	41.412	41.614
7/23/17 4:00	41.395	41.597	7/27/17 0:00	41.346	41.606
7/23/17 6:00	41.327	41.585	7/27/17 2:00	41.375	41.604
7/23/17 8:00	41.369	41.602	7/27/17 4:00	41.414	41.609
7/23/17 10:00	41.412	41.618	7/27/17 6:00	41.352	41.609
7/23/17 12:00	41.334	41.599	7/27/17 8:00	41.392	41.618
7/23/17 14:00	41.347	41.574	7/27/17 10:00	41.442	41.649
7/23/17 16:00	41.356	41.574	7/27/17 12:00	41.357	41.630
7/23/17 18:00	41.308	41.550	7/27/17 14:00	41.367	41.597
7/23/17 20:00	41.292	41.534	7/27/17 16:00	41.387	41.588
7/23/17 22:00	41.361	41.585	7/27/17 18:00	41.329	41.567
7/24/17 0:00	41.318	41.585	7/27/17 20:00	41.322	41.555
7/24/17 2:00	41.349	41.581	7/27/17 22:00	41.377	41.592

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
7/24/17 4:00	41.380	41.583	7/28/17 0:00	41.315	41.574
7/24/17 6:00	41.319	41.576	7/28/17 2:00	41.339	41.564
7/24/17 8:00	41.361	41.585	7/28/17 4:00	41.385	41.574
7/24/17 10:00	41.393	41.595	7/28/17 6:00	41.322	41.564
7/24/17 12:00	41.304	41.562	7/28/17 8:00	41.361	41.585
7/24/17 14:00	41.319	41.534	7/28/17 10:00	41.404	41.616
7/24/17 16:00	41.334	41.531	7/28/17 12:00	41.330	41.606
7/24/17 18:00	41.248	41.501	7/28/17 14:00	41.347	41.576
7/24/17 20:00	41.289	41.506	7/28/17 16:00	41.373	41.581
7/24/17 22:00	41.344	41.553	7/28/17 18:00	41.297	41.548
7/25/17 0:00	41.314	41.574	7/28/17 20:00	41.323	41.538
7/25/17 2:00	41.339	41.564	7/28/17 22:00	41.381	41.576
7/25/17 4:00	41.377	41.571	7/29/17 0:00	41.314	41.562
7/25/17 6:00	41.322	41.576	7/29/17 2:00	41.345	41.564
7/25/17 8:00	41.366	41.583	7/29/17 4:00	41.234	41.606
7/25/17 10:00	41.398	41.595	7/29/17 6:00	41.340	41.583
7/25/17 12:00	41.307	41.567	7/29/17 8:00	41.372	41.599
7/25/17 14:00	41.320	41.541	7/29/17 10:00	41.405	41.609
7/25/17 16:00	41.347	41.541	7/29/17 12:00	41.332	41.588
7/25/17 18:00	41.257	41.506	7/29/17 14:00	41.359	41.583
7/25/17 20:00	41.288	41.499	7/29/17 16:00	41.390	41.583
7/25/17 22:00	41.338	41.531	7/29/17 18:00	41.317	41.564
7/26/17 0:00	41.285	41.536	7/29/17 20:00	41.339	41.557
7/26/17 2:00	41.314	41.534	7/29/17 22:00	41.415	41.614
7/26/17 4:00	41.186	41.550	7/30/17 0:00	41.348	41.609
7/30/17 2:00	41.382	41.604	8/2/17 22:00	41.346	41.541
7/30/17 4:00	41.417	41.614	8/3/17 0:00	41.298	41.555
7/30/17 6:00	41.353	41.606	8/3/17 2:00	41.374	41.560
7/30/17 8:00	41.402	41.630	8/3/17 4:00	41.361	41.560
7/30/17 10:00	41.442	41.642	8/3/17 6:00	41.320	41.576
7/30/17 12:00	41.392	41.628	8/3/17 8:00	41.407	41.602
7/30/17 14:00	41.393	41.621	8/3/17 10:00	41.401	41.604
7/30/17 16:00	41.417	41.609	8/3/17 12:00	41.354	41.611
7/30/17 18:00	41.318	41.569	8/3/17 14:00	41.402	41.592
7/30/17 20:00	41.349	41.567	8/3/17 16:00	41.314	41.574
7/30/17 22:00	41.407	41.602	8/3/17 18:00	41.298	41.553
7/31/17 0:00	41.335	41.583	8/3/17 20:00	41.372	41.557
7/31/17 2:00	41.357	41.576	8/3/17 22:00	41.406	41.602
7/31/17 4:00	41.394	41.585	8/4/17 0:00	41.355	41.611
7/31/17 6:00	41.332	41.578	8/4/17 2:00	41.415	41.606
7/31/17 8:00	41.361	41.585	8/4/17 4:00	41.404	41.604
7/31/17 10:00	41.418	41.625	8/4/17 6:00	41.337	41.585
7/31/17 12:00	41.475	41.609	8/4/17 8:00	41.405	41.590
7/31/17 14:00	41.364	41.595	8/4/17 10:00	41.401	41.592
7/31/17 16:00	41.391	41.590	8/4/17 12:00	41.318	41.567
7/31/17 18:00	41.310	41.569	8/4/17 14:00	41.356	41.531
7/31/17 20:00	41.332	41.550	8/4/17 16:00	41.294	41.496

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
7/31/17 22:00	41.391	41.588	8/4/17 18:00	41.286	41.473
8/1/17 0:00	41.335	41.583	8/4/17 20:00	41.292	41.468
8/1/17 2:00	41.357	41.571	8/4/17 22:00	41.281	41.482
8/1/17 4:00	41.377	41.574	8/5/17 0:00	41.289	41.473
8/1/17 6:00	41.322	41.569	8/5/17 2:00	41.302	41.478
8/1/17 8:00	41.351	41.581	8/5/17 4:00	41.154	41.473
8/1/17 10:00	41.398	41.604	8/5/17 6:00	41.101	41.419
8/1/17 12:00	41.327	41.583	8/5/17 8:00	41.133	41.463
8/1/17 14:00	41.326	41.564	8/5/17 10:00	41.318	41.470
8/1/17 16:00	41.359	41.564	8/5/17 12:00	41.237	41.466
8/1/17 18:00	41.318	41.557	8/5/17 14:00	41.285	41.445
8/1/17 20:00	41.379	41.557	8/5/17 16:00	41.277	41.445
8/1/17 22:00	41.389	41.578	8/5/17 18:00	41.196	41.414
8/2/17 0:00	41.350	41.602	8/5/17 20:00	41.291	41.449
8/2/17 2:00	41.386	41.571	8/5/17 22:00	41.315	41.487
8/2/17 4:00	41.380	41.581	8/6/17 0:00	41.275	41.503
8/2/17 6:00	41.321	41.574	8/6/17 2:00	41.360	41.522
8/2/17 8:00	41.396	41.588	8/6/17 4:00	41.345	41.517
8/2/17 10:00	41.388	41.585	8/6/17 6:00	41.294	41.524
8/2/17 12:00	41.312	41.569	8/6/17 8:00	41.384	41.550
8/2/17 14:00	41.348	41.543	8/6/17 10:00	41.383	41.560
8/2/17 16:00	41.329	41.527	8/6/17 12:00	41.332	41.564
8/2/17 18:00	41.250	41.501	8/6/17 14:00	41.406	41.569
8/2/17 20:00	41.331	41.522	8/6/17 16:00	41.381	41.553
8/6/17 18:00	41.303	41.529	8/10/17 14:00	41.365	41.553
8/6/17 20:00	41.375	41.536	8/10/17 16:00	41.291	41.524
8/6/17 22:00	41.397	41.574	8/10/17 18:00	41.199	41.520
8/7/17 0:00	41.346	41.583	8/10/17 20:00	41.380	41.534
8/7/17 2:00	41.408	41.574	8/10/17 22:00	41.390	41.560
8/7/17 4:00	41.425	41.602	8/11/17 0:00	41.336	41.555
8/7/17 6:00	41.349	41.569	8/11/17 2:00	41.396	41.557
8/7/17 8:00	41.383	41.588	8/11/17 4:00	41.380	41.543
8/7/17 10:00	41.466	41.609	8/11/17 6:00	41.323	41.541
8/7/17 12:00	41.378	41.614	8/11/17 8:00	41.408	41.564
8/7/17 14:00	41.428	41.597	8/11/17 10:00	41.400	41.553
8/7/17 16:00	41.407	41.581	8/11/17 12:00	41.326	41.536
8/7/17 18:00	41.331	41.560	8/11/17 14:00	41.374	41.508
8/7/17 20:00	41.406	41.574	8/11/17 16:00	41.332	41.468
8/7/17 22:00	41.421	41.595	8/11/17 18:00	41.259	41.445
8/8/17 0:00	41.366	41.599	8/11/17 20:00	41.338	41.452
8/8/17 2:00	41.437	41.599	8/11/17 22:00	41.336	41.456
8/8/17 4:00	41.417	41.588	8/12/17 0:00	41.277	41.449
8/8/17 6:00	41.353	41.585	8/12/17 2:00	41.338	41.440
8/8/17 8:00	41.431	41.595	8/12/17 4:00	41.335	41.447
8/8/17 10:00	41.418	41.590	8/12/17 6:00	41.268	41.431
8/8/17 12:00	41.350	41.576	8/12/17 8:00	41.353	41.452
8/8/17 14:00	41.395	41.553	8/12/17 10:00	41.368	41.449

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
8/8/17 16:00	41.359	41.522	8/12/17 12:00	41.276	41.433
8/8/17 18:00	41.285	41.503	8/12/17 14:00	41.319	41.410
8/8/17 20:00	41.342	41.492	8/12/17 16:00	41.288	41.391
8/8/17 22:00	41.362	41.517	8/12/17 18:00	41.212	41.360
8/9/17 0:00	41.307	41.529	8/12/17 20:00	41.255	41.327
8/9/17 2:00	41.364	41.517	8/12/17 22:00	41.307	41.405
8/9/17 4:00	41.306	41.517	8/13/17 0:00	41.255	41.402
8/9/17 6:00	41.209	41.520	8/13/17 2:00	41.272	41.388
8/9/17 8:00	41.244	41.522	8/13/17 4:00	41.282	41.372
8/9/17 10:00	41.350	41.513	8/13/17 6:00	41.218	41.360
8/9/17 12:00	41.297	41.506	8/13/17 8:00	41.291	41.370
8/9/17 14:00	41.352	41.496	8/13/17 10:00	41.288	41.377
8/9/17 16:00	41.313	41.470	8/13/17 12:00	41.222	41.367
8/9/17 18:00	41.261	41.478	8/13/17 14:00	41.274	41.349
8/9/17 20:00	41.358	41.508	8/13/17 16:00	41.250	41.332
8/9/17 22:00	41.361	41.522	8/13/17 18:00	41.171	41.304
8/10/17 0:00	41.301	41.522	8/13/17 20:00	41.247	41.316
8/10/17 2:00	41.368	41.522	8/13/17 22:00	41.274	41.356
8/10/17 4:00	41.349	41.501	8/14/17 0:00	41.212	41.351
8/10/17 6:00	41.305	41.531	8/14/17 2:00	41.297	41.374
8/10/17 8:00	41.393	41.546	8/14/17 4:00	41.274	41.360
8/10/17 10:00	41.373	41.538	8/14/17 6:00	41.217	41.360
8/10/17 12:00	41.306	41.531	8/14/17 8:00	41.284	41.363
8/14/17 10:00	41.285	41.379	8/18/17 6:00	41.247	41.269
8/14/17 12:00	41.230	41.379	8/18/17 8:00	41.318	41.285
8/14/17 14:00	41.280	41.363	8/18/17 10:00	41.324	41.299
8/14/17 16:00	41.262	41.351	8/18/17 12:00	41.251	41.281
8/14/17 18:00	41.186	41.330	8/18/17 14:00	41.296	41.276
8/14/17 20:00	41.274	41.349	8/18/17 16:00	41.290	41.271
8/14/17 22:00	41.284	41.374	8/18/17 18:00	41.230	41.234
8/15/17 0:00	41.227	41.372	8/18/17 20:00	41.294	41.274
8/15/17 2:00	41.321	41.405	8/18/17 22:00	41.309	41.295
8/15/17 4:00	41.293	41.379	8/19/17 0:00	41.254	41.299
8/15/17 6:00	41.243	41.388	8/19/17 2:00	41.311	41.295
8/15/17 8:00	41.337	41.421	8/19/17 4:00	41.305	41.295
8/15/17 10:00	41.322	41.419	8/19/17 6:00	41.244	41.292
8/15/17 12:00	41.252	41.402	8/19/17 8:00	41.313	41.302
8/15/17 14:00	41.289	41.372	8/19/17 10:00	41.312	41.306
8/15/17 16:00	41.278	41.370	8/19/17 12:00	41.235	41.290
8/15/17 18:00	41.197	41.342	8/19/17 14:00	41.269	41.262
8/15/17 20:00	41.198	41.363	8/19/17 16:00	41.244	41.231
8/15/17 22:00	41.281	41.400	8/19/17 18:00	41.164	41.208
8/16/17 0:00	41.253	41.405	8/19/17 20:00	41.230	41.213
8/16/17 2:00	41.319	41.400	8/19/17 22:00	41.254	41.250
8/16/17 4:00	41.103	41.435	8/20/17 0:00	41.211	41.269
8/16/17 6:00	41.005	41.356	8/20/17 2:00	41.276	41.276
8/16/17 8:00	41.063	41.433	8/20/17 4:00	41.282	41.288

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
8/16/17 10:00	41.237	41.470	8/20/17 6:00	41.224	41.295
8/16/17 12:00	41.317	41.445	8/20/17 8:00	41.307	41.311
8/16/17 14:00	41.341	41.393	8/20/17 10:00	41.308	41.320
8/16/17 16:00	41.319	41.342	8/20/17 12:00	41.246	41.313
8/16/17 18:00	41.257	41.311	8/20/17 14:00	41.287	41.295
8/16/17 20:00	41.313	41.285	8/20/17 16:00	41.281	41.292
8/16/17 22:00	41.344	41.313	8/20/17 18:00	41.219	41.285
8/17/17 0:00	41.289	41.304	8/20/17 20:00	41.288	41.297
8/17/17 2:00	41.344	41.290	8/20/17 22:00	41.320	41.342
8/17/17 4:00	41.326	41.276	8/21/17 0:00	41.277	41.353
8/17/17 6:00	41.290	41.302	8/21/17 2:00	41.343	41.358
8/17/17 8:00	41.363	41.311	8/21/17 4:00	41.318	41.339
8/17/17 10:00	41.352	41.311	8/21/17 6:00	41.268	41.353
8/17/17 12:00	41.281	41.292	8/21/17 8:00	41.353	41.370
8/17/17 14:00	41.310	41.266	8/21/17 10:00	41.345	41.372
8/17/17 16:00	41.300	41.252	8/21/17 12:00	41.273	41.353
8/17/17 18:00	41.226	41.238	8/21/17 14:00	41.333	41.349
8/17/17 20:00	41.274	41.224	8/21/17 16:00	41.312	41.339
8/17/17 22:00	41.289	41.243	8/21/17 18:00	41.247	41.325
8/18/17 0:00	41.222	41.238	8/21/17 20:00	41.306	41.323
8/18/17 2:00	41.280	41.234	8/21/17 22:00	41.324	41.349
8/18/17 4:00	41.304	41.271	8/22/17 0:00	41.301	41.393
8/22/17 2:00	41.384	41.417	8/25/17 22:00	41.334	41.386
8/22/17 4:00	41.397	41.435	8/26/17 0:00	41.371	41.412
8/22/17 6:00	41.353	41.459	8/26/17 2:00	41.339	41.400
8/22/17 8:00	41.457	41.508	8/26/17 4:00	41.375	41.417
8/22/17 10:00	41.453	41.510	8/26/17 6:00	41.367	41.410
8/22/17 12:00	41.389	41.503	8/26/17 8:00	41.356	41.421
8/22/17 14:00	41.431	41.487	8/26/17 10:00	41.359	41.412
8/22/17 16:00	41.406	41.466	8/26/17 12:00	41.360	41.402
8/22/17 18:00	41.337	41.442	8/26/17 14:00	41.321	41.377
8/22/17 20:00	41.387	41.433	8/26/17 16:00	41.304	41.349
8/22/17 22:00	41.397	41.449	8/26/17 18:00	41.315	41.351
8/23/17 0:00	41.352	41.461	8/26/17 20:00	41.302	41.358
8/23/17 2:00	41.406	41.454	8/26/17 22:00	41.336	41.381
8/23/17 4:00	41.391	41.435	8/27/17 0:00	41.339	41.374
8/23/17 6:00	41.320	41.421	8/27/17 2:00	41.317	41.367
8/23/17 8:00	41.393	41.433	8/27/17 4:00	41.327	41.360
8/23/17 10:00	41.388	41.433	8/27/17 6:00	41.370	41.449
8/23/17 12:00	41.312	41.410	8/27/17 8:00	41.250	41.398
8/23/17 14:00	41.346	41.379	8/27/17 10:00	41.407	41.410
8/23/17 16:00	41.307	41.342	8/27/17 12:00	41.394	41.435
8/23/17 18:00	41.228	41.316	8/27/17 14:00	41.352	41.414
8/23/17 20:00	41.278	41.149	8/27/17 16:00	41.343	41.393
8/23/17 22:00	41.307	41.344	8/27/17 18:00	41.347	41.388
8/24/17 0:00	41.259	41.353	8/27/17 20:00	41.348	41.407
8/24/17 2:00	41.326	41.358	8/27/17 22:00	41.375	41.424

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
8/24/17 4:00	41.322	41.353	8/28/17 0:00	41.392	41.433
8/24/17 6:00	41.242	41.332	8/28/17 2:00	41.365	41.428
8/24/17 8:00	41.318	41.349	8/28/17 4:00	41.382	41.419
8/24/17 10:00	41.324	41.353	8/28/17 6:00	41.374	41.412
8/24/17 12:00	41.280	41.318	8/28/17 8:00	41.365	41.424
8/24/17 14:00	41.267	41.323	8/28/17 10:00	41.372	41.421
8/24/17 16:00	41.261	41.302	8/28/17 12:00	41.366	41.410
8/24/17 18:00	41.274	41.302	8/28/17 14:00	41.334	41.388
8/24/17 20:00	41.259	41.316	8/28/17 16:00	41.328	41.370
8/24/17 22:00	41.292	41.334	8/28/17 18:00	41.329	41.365
8/25/17 0:00	41.312	41.344	8/28/17 20:00	41.323	41.374
8/25/17 2:00	41.302	41.353	8/28/17 22:00	41.348	41.391
8/25/17 4:00	41.332	41.365	8/29/17 0:00	41.356	41.393
8/25/17 6:00	41.311	41.349	8/29/17 2:00	41.343	41.393
8/25/17 8:00	41.308	41.367	8/29/17 4:00	41.358	41.388
8/25/17 10:00	41.332	41.386	8/29/17 6:00	41.348	41.384
8/25/17 12:00	41.331	41.377	8/29/17 8:00	41.354	41.407
8/25/17 14:00	41.308	41.369	8/29/17 10:00	41.362	41.405
8/25/17 16:00	41.305	41.356	8/29/17 12:00	41.360	41.398
8/25/17 18:00	41.315	41.358	8/29/17 14:00	41.324	41.377
8/25/17 20:00	41.300	41.356	8/29/17 16:00	41.306	41.342
8/29/17 18:00	41.312	41.339	9/2/17 14:00	41.333	41.365
8/29/17 20:00	41.301	41.346	9/2/17 16:00	41.329	41.353
8/29/17 22:00	41.330	41.370	9/2/17 18:00	41.337	41.351
8/30/17 0:00	41.341	41.365	9/2/17 20:00	41.333	41.367
8/30/17 2:00	41.324	41.370	9/2/17 22:00	41.360	41.386
8/30/17 4:00	41.351	41.379	9/3/17 0:00	41.368	41.386
8/30/17 6:00	41.347	41.374	9/3/17 2:00	41.343	41.381
8/30/17 8:00	41.346	41.395	9/3/17 4:00	41.365	41.381
8/30/17 10:00	41.356	41.398	9/3/17 6:00	41.353	41.365
8/30/17 12:00	41.362	41.391	9/3/17 8:00	41.340	41.370
8/30/17 14:00	41.328	41.374	9/3/17 10:00	41.344	41.367
8/30/17 16:00	41.310	41.346	9/3/17 12:00	41.335	41.346
8/30/17 18:00	41.318	41.339	9/3/17 14:00	41.292	41.320
8/30/17 20:00	41.310	41.356	9/3/17 16:00	41.274	41.285
8/30/17 22:00	41.354	41.391	9/3/17 18:00	41.273	41.266
8/31/17 0:00	41.369	41.395	9/3/17 20:00	41.250	41.271
8/31/17 2:00	41.346	41.391	9/3/17 22:00	41.289	41.299
8/31/17 4:00	41.368	41.395	9/4/17 0:00	41.304	41.299
8/31/17 6:00	41.362	41.391	9/4/17 2:00	41.290	41.306
8/31/17 8:00	41.356	41.405	9/4/17 4:00	41.307	41.302
8/31/17 10:00	41.362	41.400	9/4/17 6:00	41.313	41.313
8/31/17 12:00	41.361	41.386	9/4/17 8:00	41.335	41.358
8/31/17 14:00	41.322	41.367	9/4/17 10:00	41.371	41.391
8/31/17 16:00	41.302	41.332	9/4/17 12:00	41.381	41.398
8/31/17 18:00	41.313	41.332	9/4/17 14:00	41.370	41.400
8/31/17 20:00	41.303	41.346	9/4/17 16:00	41.360	41.379

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
8/31/17 22:00	41.329	41.358	9/4/17 18:00	41.389	41.405
9/1/17 0:00	41.340	41.358	9/4/17 20:00	41.383	41.419
9/1/17 2:00	41.320	41.360	9/4/17 22:00	41.438	41.466
9/1/17 4:00	41.360	41.377	9/5/17 0:00	41.456	41.473
9/1/17 6:00	41.343	41.363	9/5/17 2:00	41.440	41.482
9/1/17 8:00	41.323	41.356	9/5/17 4:00	41.437	41.346
9/1/17 10:00	41.394	41.337	9/5/17 6:00	41.466	41.492
9/1/17 12:00	41.329	41.349	9/5/17 8:00	41.455	41.503
9/1/17 14:00	41.301	41.339	9/5/17 10:00	41.463	41.496
9/1/17 16:00	41.311	41.334	9/5/17 12:00	41.455	41.475
9/1/17 18:00	41.202	41.295	9/5/17 14:00	41.409	41.447
9/1/17 20:00	41.124	41.330	9/5/17 16:00	41.389	41.412
9/1/17 22:00	41.069	41.351	9/5/17 18:00	41.386	41.393
9/2/17 0:00	41.311	41.353	9/5/17 20:00	41.378	41.400
9/2/17 2:00	41.314	41.346	9/5/17 22:00	41.405	41.424
9/2/17 4:00	41.341	41.356	9/6/17 0:00	41.417	41.426
9/2/17 6:00	41.342	41.360	9/6/17 2:00	41.400	41.426
9/2/17 8:00	41.352	41.388	9/6/17 4:00	41.412	41.419
9/2/17 10:00	41.363	41.384	9/6/17 6:00	41.406	41.412
9/2/17 12:00	41.357	41.374	9/6/17 8:00	41.398	41.426
9/6/17 10:00	41.399	41.412	9/10/17 6:00	41.403	41.395
9/6/17 12:00	41.388	41.391	9/10/17 8:00	41.411	41.426
9/6/17 14:00	41.351	41.365	9/10/17 10:00	41.419	41.417
9/6/17 16:00	41.340	41.344	9/10/17 12:00	41.413	41.410
9/6/17 18:00	41.348	41.339	9/10/17 14:00	41.372	41.379
9/6/17 20:00	41.330	41.344	9/10/17 16:00	41.357	41.351
9/6/17 22:00	41.362	41.367	9/10/17 18:00	41.364	41.344
9/7/17 0:00	41.377	41.374	9/10/17 20:00	41.362	41.365
9/7/17 2:00	41.319	41.302	9/10/17 22:00	41.398	41.393
9/7/17 4:00	41.395	41.419	9/11/17 0:00	41.413	41.398
9/7/17 6:00	41.352	41.344	9/11/17 2:00	41.398	41.405
9/7/17 8:00	41.332	41.349	9/11/17 4:00	41.415	41.393
9/7/17 10:00	41.343	41.346	9/11/17 6:00	41.407	41.391
9/7/17 12:00	41.351	41.342	9/11/17 8:00	41.399	41.405
9/7/17 14:00	41.310	41.320	9/11/17 10:00	41.407	41.398
9/7/17 16:00	41.292	41.290	9/11/17 12:00	41.398	41.384
9/7/17 18:00	41.300	41.283	9/11/17 14:00	41.360	41.360
9/7/17 20:00	41.287	41.299	9/11/17 16:00	41.347	41.334
9/7/17 22:00	41.328	41.325	9/11/17 18:00	41.355	41.330
9/8/17 0:00	41.343	41.330	9/11/17 20:00	41.347	41.344
9/8/17 2:00	41.332	41.346	9/11/17 22:00	41.374	41.363
9/8/17 4:00	41.359	41.344	9/12/17 0:00	41.391	41.365
9/8/17 6:00	41.354	41.344	9/12/17 2:00	41.359	41.353
9/8/17 8:00	41.357	41.367	9/12/17 4:00	41.377	41.346
9/8/17 10:00	41.370	41.372	9/12/17 6:00	41.376	41.349
9/8/17 12:00	41.373	41.370	9/12/17 8:00	41.355	41.353
9/8/17 14:00	41.337	41.348	9/12/17 10:00	41.367	41.346

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
9/8/17 16:00	41.329	41.325	9/12/17 12:00	41.356	41.330
9/8/17 18:00	41.337	41.323	9/12/17 14:00	41.310	41.299
9/8/17 20:00	41.333	41.344	9/12/17 16:00	41.297	41.271
9/8/17 22:00	41.381	41.381	9/12/17 18:00	41.305	41.269
9/9/17 0:00	41.400	41.400	9/12/17 20:00	41.285	41.274
9/9/17 2:00	41.377	41.337	9/12/17 22:00	41.312	41.283
9/9/17 4:00	41.413	41.402	9/13/17 0:00	41.327	41.288
9/9/17 6:00	41.404	41.402	9/13/17 2:00	41.305	41.290
9/9/17 8:00	41.396	41.407	9/13/17 4:00	41.322	41.278
9/9/17 10:00	41.404	41.410	9/13/17 6:00	41.317	41.274
9/9/17 12:00	41.410	41.410	9/13/17 8:00	41.309	41.297
9/9/17 14:00	41.380	41.391	9/13/17 10:00	41.314	41.290
9/9/17 16:00	41.360	41.360	9/13/17 12:00	41.311	41.266
9/9/17 18:00	41.354	41.339	9/13/17 14:00	41.258	41.241
9/9/17 20:00	41.346	41.356	9/13/17 16:00	41.264	41.231
9/9/17 22:00	41.390	41.388	9/13/17 18:00	41.265	41.217
9/10/17 0:00	41.402	41.391	9/13/17 20:00	41.261	41.241
9/10/17 2:00	41.399	41.407	9/13/17 22:00	41.295	41.259
9/10/17 4:00	41.419	41.405	9/14/17 0:00	41.321	41.278
9/14/17 2:00	41.295	41.274	9/17/17 22:00	41.448	41.419
9/14/17 4:00	41.329	41.283	9/18/17 0:00	41.386	41.405
9/14/17 6:00	41.332	41.292	9/18/17 2:00	41.347	41.384
9/14/17 8:00	41.329	41.313	9/18/17 4:00	41.369	41.346
9/14/17 10:00	41.344	41.311	9/18/17 6:00	41.374	41.330
9/14/17 12:00	41.347	41.309	9/18/17 8:00	41.391	41.372
9/14/17 14:00	41.311	41.292	9/18/17 10:00	41.493	41.358
9/14/17 16:00	41.300	41.269	9/18/17 12:00	41.491	41.349
9/14/17 18:00	41.301	41.252	9/18/17 14:00	41.364	41.332
9/14/17 20:00	41.297	41.281	9/18/17 16:00	41.341	41.302
9/14/17 22:00	41.337	41.306	9/18/17 18:00	41.345	41.290
9/15/17 0:00	41.342	41.304	9/18/17 20:00	41.339	41.311
9/15/17 2:00	41.339	41.320	9/18/17 22:00	41.372	41.327
9/15/17 4:00	41.356	41.313	9/19/17 0:00	41.376	41.318
9/15/17 6:00	41.345	41.299	9/19/17 2:00	41.340	41.311
9/15/17 8:00	41.339	41.320	9/19/17 4:00	41.351	41.297
9/15/17 10:00	41.354	41.320	9/19/17 6:00	41.328	41.271
9/15/17 12:00	41.369	41.332	9/19/17 8:00	41.308	41.271
9/15/17 14:00	41.335	41.313	9/19/17 10:00	41.309	41.259
9/15/17 16:00	41.325	41.292	9/19/17 12:00	41.294	41.226
9/15/17 18:00	41.336	41.285	9/19/17 14:00	41.239	41.196
9/15/17 20:00	41.328	41.304	9/19/17 16:00	41.230	41.161
9/15/17 22:00	41.375	41.346	9/19/17 18:00	41.231	41.156
9/16/17 0:00	41.381	41.342	9/19/17 20:00	41.251	41.203
9/16/17 2:00	41.370	41.349	9/19/17 22:00	41.302	41.241
9/16/17 4:00	41.392	41.349	9/20/17 0:00	41.378	41.325
9/16/17 6:00	41.412	41.384	9/20/17 2:00	41.398	41.372
9/16/17 8:00	41.437	41.431	9/20/17 4:00	41.448	41.400

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
9/16/17 10:00	41.496	41.489	9/20/17 6:00	41.456	41.417
9/16/17 12:00	41.483	41.459	9/20/17 8:00	41.473	41.456
9/16/17 14:00	41.455	41.452	9/20/17 10:00	41.500	41.478
9/16/17 16:00	41.479	41.468	9/20/17 12:00	41.482	41.449
9/16/17 18:00	41.499	41.478	9/20/17 14:00	41.453	41.428
9/16/17 20:00	41.490	41.494	9/20/17 16:00	41.437	41.410
9/16/17 22:00	41.524	41.515	9/20/17 18:00	41.435	41.388
9/17/17 0:00	41.539	41.513	9/20/17 20:00	41.426	41.402
9/17/17 2:00	41.538	41.538	9/20/17 22:00	41.455	41.417
9/17/17 4:00	41.548	41.527	9/21/17 0:00	41.447	41.400
9/17/17 6:00	41.544	41.522	9/21/17 2:00	41.427	41.402
9/17/17 8:00	41.547	41.557	9/21/17 4:00	41.419	41.363
9/17/17 10:00	41.550	41.543	9/21/17 6:00	41.406	41.353
9/17/17 12:00	41.541	41.515	9/21/17 8:00	41.395	41.363
9/17/17 14:00	41.477	41.473	9/21/17 10:00	41.401	41.356
9/17/17 16:00	41.448	41.426	9/21/17 12:00	41.390	41.327
9/17/17 18:00	41.446	41.412	9/21/17 14:00	41.338	41.295
9/17/17 20:00	41.421	41.412	9/21/17 16:00	41.325	41.262
9/21/17 18:00	41.333	41.252	9/25/17 14:00	41.276	41.433
9/21/17 20:00	41.330	41.278	9/25/17 16:00	41.328	41.388
9/21/17 22:00	41.380	41.323	9/25/17 18:00	41.232	41.306
9/22/17 0:00	41.402	41.337	9/25/17 20:00	41.219	41.381
9/22/17 2:00	41.398	41.360	9/25/17 22:00	41.180	41.386
9/22/17 4:00	41.418	41.353	9/26/17 0:00	41.148	41.381
9/22/17 6:00	41.419	41.365	9/26/17 2:00	41.103	41.372
9/22/17 8:00	41.415	41.377	9/26/17 4:00	41.375	41.360
9/22/17 10:00	41.431	41.384	9/26/17 6:00	41.490	41.349
9/22/17 12:00	41.430	41.372	9/26/17 8:00	41.494	41.374
9/22/17 14:00	41.396	41.349	9/26/17 10:00	41.506	41.370
9/22/17 16:00	41.394	41.334	9/26/17 12:00	41.521	41.365
9/22/17 18:00	41.407	41.334	9/26/17 14:00	41.479	41.339
9/22/17 20:00	41.401	41.356	9/26/17 16:00	41.466	41.311
9/22/17 22:00	41.451	41.395	9/26/17 18:00	41.469	41.295
9/23/17 0:00	41.464	41.410	9/26/17 20:00	41.461	41.316
9/23/17 2:00	41.453	41.417	9/26/17 22:00	41.488	41.330
9/23/17 4:00	41.475	41.417	9/27/17 0:00	41.498	41.325
9/23/17 6:00	41.468	41.414	9/27/17 2:00	41.476	41.325
9/23/17 8:00	41.466	41.435	9/27/17 4:00	41.505	41.332
9/23/17 10:00	41.467	41.419	9/27/17 6:00	41.506	41.339
9/23/17 12:00	41.475	41.426	9/27/17 8:00	41.500	41.360
9/23/17 14:00	41.423	41.384	9/27/17 10:00	41.520	41.365
9/23/17 16:00	41.403	41.344	9/27/17 12:00	41.517	41.353
9/23/17 18:00	41.425	41.346	9/27/17 14:00	41.480	41.346
9/23/17 20:00	41.416	41.372	9/27/17 16:00	41.465	41.334
9/23/17 22:00	41.436	41.381	9/27/17 18:00	41.478	41.325
9/24/17 0:00	41.458	41.395	9/27/17 20:00	41.460	41.327
9/24/17 2:00	41.448	41.407	9/27/17 22:00	41.477	41.334

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
9/24/17 4:00	41.459	41.391	9/28/17 0:00	41.492	41.332
9/24/17 6:00	41.446	41.384	9/28/17 2:00	41.467	41.339
9/24/17 8:00	41.454	41.412	9/28/17 4:00	41.492	41.339
9/24/17 10:00	41.366	41.435	9/28/17 6:00	41.485	41.334
9/24/17 12:00	41.493	41.440	9/28/17 8:00	41.481	41.356
9/24/17 14:00	41.426	41.442	9/28/17 10:00	41.498	41.360
9/24/17 16:00	41.472	41.414	9/28/17 12:00	41.481	41.332
9/24/17 18:00	41.477	41.410	9/28/17 14:00	41.433	41.311
9/24/17 20:00	41.441	41.402	9/28/17 16:00	41.373	41.290
9/24/17 22:00	41.473	41.428	9/28/17 18:00	41.381	41.299
9/25/17 0:00	41.456	41.433	9/28/17 20:00	41.363	41.313
9/25/17 2:00	41.333	41.412	9/28/17 22:00	41.366	41.313
9/25/17 4:00	41.338	41.410	9/29/17 0:00	41.387	41.330
9/25/17 6:00	41.314	41.419	9/29/17 2:00	41.367	41.332
9/25/17 8:00	41.256	41.433	9/29/17 4:00	41.370	41.332
9/25/17 10:00	41.218	41.442	9/29/17 6:00	41.374	41.327
9/25/17 12:00	41.293	41.428	9/29/17 8:00	41.363	41.341
9/29/17 10:00	41.369	41.334	10/3/17 6:00	40.655	41.016
9/29/17 12:00	41.381	41.339	10/3/17 8:00	40.736	41.004
9/29/17 14:00	41.343	41.313	10/3/17 10:00	41.228	40.983
9/29/17 16:00	41.327	41.295	10/3/17 12:00	41.247	40.962
9/29/17 18:00	41.335	41.288	10/3/17 14:00	41.262	40.915
9/29/17 20:00	41.323	41.295	10/3/17 16:00	41.161	40.854
9/29/17 22:00	41.343	41.306	10/3/17 18:00	41.178	40.833
9/30/17 0:00	41.353	41.311	10/3/17 20:00	41.226	40.833
9/30/17 2:00	41.333	41.313	10/3/17 22:00	41.164	40.819
9/30/17 4:00	41.339	41.292	10/4/17 0:00	41.184	40.828
9/30/17 6:00	41.326	41.290	10/4/17 2:00	41.199	40.819
9/30/17 8:00	41.322	41.302	10/4/17 4:00	41.065	40.790
9/30/17 10:00	41.309	41.278	10/4/17 6:00	40.998	40.805
9/30/17 12:00	41.488	41.269	10/4/17 8:00	41.165	40.826
9/30/17 14:00	41.258	41.231	10/4/17 10:00	41.143	40.809
9/30/17 16:00	41.229	41.184	10/4/17 12:00	41.160	40.812
9/30/17 18:00	41.230	41.184	10/4/17 14:00	41.140	40.762
9/30/17 20:00	41.236	41.198	10/4/17 16:00	41.066	40.748
9/30/17 22:00	41.249	41.210	10/4/17 18:00	41.076	40.734
10/1/17 0:00	41.247	41.203	10/4/17 20:00	41.102	40.732
10/1/17 2:00	41.232	41.194	10/4/17 22:00	41.047	40.715
10/1/17 4:00	41.214	41.161	10/5/17 0:00	41.062	40.720
10/1/17 6:00	41.199	41.154	10/5/17 2:00	41.072	40.704
10/1/17 8:00	41.195	41.159	10/5/17 4:00	41.022	40.678
10/1/17 10:00	41.182	41.142	10/5/17 6:00	41.041	40.701
10/1/17 12:00	41.189	41.147	10/5/17 8:00	41.063	40.697
10/1/17 14:00	41.166	41.123	10/5/17 10:00	41.064	40.685
10/1/17 16:00	41.137	41.091	10/5/17 12:00	41.191	40.704
10/1/17 18:00	41.152	41.098	10/5/17 14:00	41.328	40.692
10/1/17 20:00	40.917	41.140	10/5/17 16:00	40.968	40.669

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
10/1/17 22:00	40.845	41.055	10/5/17 18:00	41.034	40.624
10/2/17 0:00	40.863	41.198	10/5/17 20:00	41.035	40.715
10/2/17 2:00	40.840	41.196	10/5/17 22:00	41.004	40.730
10/2/17 4:00	40.743	41.184	10/6/17 0:00	41.030	40.748
10/2/17 6:00	40.681	41.187	10/6/17 2:00	41.050	40.744
10/2/17 8:00	40.648	41.187	10/6/17 4:00	41.016	40.694
10/2/17 10:00	40.623	41.156	10/6/17 6:00	41.047	40.699
10/2/17 12:00	40.688	41.135	10/6/17 8:00	41.093	40.699
10/2/17 14:00	41.051	41.091	10/6/17 10:00	41.120	40.685
10/2/17 16:00	41.155	41.030	10/6/17 12:00	41.252	40.692
10/2/17 18:00	41.160	41.018	10/6/17 14:00	40.968	40.676
10/2/17 20:00	41.103	40.980	10/6/17 16:00	40.890	40.640
10/2/17 22:00	40.985	41.013	10/6/17 18:00	40.928	40.643
10/3/17 0:00	40.988	41.011	10/6/17 20:00	40.871	40.659
10/3/17 2:00	40.970	41.046	10/6/17 22:00	40.699	40.704
10/3/17 4:00	40.872	40.997	10/7/17 0:00	40.639	40.727
10/7/17 2:00	40.614	40.744	10/10/17 22:00	41.128	40.983
10/7/17 4:00	40.973	40.725	10/11/17 0:00	41.159	41.004
10/7/17 6:00	40.995	40.720	10/11/17 2:00	41.179	40.997
10/7/17 8:00	41.018	40.713	10/11/17 4:00	41.110	40.964
10/7/17 10:00	40.961	40.701	10/11/17 6:00	41.130	40.971
10/7/17 12:00	41.008	40.711	10/11/17 8:00	41.149	40.922
10/7/17 14:00	41.007	40.678	10/11/17 10:00	41.092	40.957
10/7/17 16:00	40.914	40.624	10/11/17 12:00	41.113	40.948
10/7/17 18:00	40.951	40.626	10/11/17 14:00	41.095	40.910
10/7/17 20:00	40.970	40.622	10/11/17 16:00	41.014	40.858
10/7/17 22:00	40.915	40.596	10/11/17 18:00	41.055	40.875
10/8/17 0:00	40.944	40.610	10/11/17 20:00	41.093	40.896
10/8/17 2:00	40.969	40.615	10/11/17 22:00	41.041	40.889
10/8/17 4:00	40.903	40.577	10/12/17 0:00	41.074	40.905
10/8/17 6:00	40.934	40.596	10/12/17 2:00	41.078	40.887
10/8/17 8:00	40.982	40.626	10/12/17 4:00	41.009	40.851
10/8/17 10:00	40.927	40.626	10/12/17 6:00	41.035	40.866
10/8/17 12:00	40.958	40.633	10/12/17 8:00	41.061	40.875
10/8/17 14:00	40.950	40.608	10/12/17 10:00	41.001	40.849
10/8/17 16:00	40.881	40.584	10/12/17 12:00	41.025	40.849
10/8/17 18:00	40.933	40.622	10/12/17 14:00	41.022	40.828
10/8/17 20:00	40.981	40.647	10/12/17 16:00	40.959	40.788
10/8/17 22:00	40.975	40.694	10/12/17 18:00	41.002	40.807
10/9/17 0:00	41.042	40.765	10/12/17 20:00	41.041	40.835
10/9/17 2:00	41.083	40.795	10/12/17 22:00	41.002	40.830
10/9/17 4:00	41.047	40.802	10/13/17 0:00	41.057	40.880
10/9/17 6:00	41.087	40.844	10/13/17 2:00	41.086	40.903
10/9/17 8:00	41.161	40.903	10/13/17 4:00	41.053	40.901
10/9/17 10:00	41.143	40.950	10/13/17 6:00	41.107	40.950
10/9/17 12:00	41.175	40.976	10/13/17 8:00	41.155	40.985
10/9/17 14:00	41.201	40.973	10/13/17 10:00	41.107	40.969

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
10/9/17 16:00	41.146	40.971	10/13/17 12:00	41.129	40.973
10/9/17 18:00	41.194	41.016	10/13/17 14:00	41.144	40.969
10/9/17 20:00	41.275	41.077	10/13/17 16:00	41.078	40.931
10/9/17 22:00	41.213	41.060	10/13/17 18:00	41.107	40.950
10/10/17 0:00	41.233	41.109	10/13/17 20:00	41.136	40.959
10/10/17 2:00	41.241	41.079	10/13/17 22:00	41.083	40.941
10/10/17 4:00	41.127	41.067	10/14/17 0:00	41.108	40.955
10/10/17 6:00	41.220	41.062	10/14/17 2:00	41.100	40.917
10/10/17 8:00	41.274	41.081	10/14/17 4:00	41.045	40.896
10/10/17 10:00	41.201	41.055	10/14/17 6:00	41.055	40.889
10/10/17 12:00	41.220	41.060	10/14/17 8:00	41.066	40.880
10/10/17 14:00	41.233	41.041	10/14/17 10:00	41.006	40.847
10/10/17 16:00	41.137	40.985	10/14/17 12:00	41.074	40.866
10/10/17 18:00	41.156	40.992	10/14/17 14:00	41.167	40.887
10/10/17 20:00	41.200	41.011	10/14/17 16:00	41.044	40.905
10/14/17 18:00	41.113	40.962	10/18/17 14:00	41.237	40.884
10/14/17 20:00	41.217	41.067	10/18/17 16:00	41.160	40.873
10/14/17 22:00	41.209	41.100	10/18/17 18:00	41.247	40.908
10/15/17 0:00	41.238	41.119	10/18/17 20:00	41.309	40.957
10/15/17 2:00	41.277	41.130	10/18/17 22:00	41.237	40.945
10/15/17 4:00	41.233	41.116	10/19/17 0:00	41.285	40.950
10/15/17 6:00	41.262	41.152	10/19/17 2:00	41.289	40.948
10/15/17 8:00	41.305	41.168	10/19/17 4:00	41.213	40.919
10/15/17 10:00	41.269	41.177	10/19/17 6:00	41.268	40.934
10/15/17 12:00	41.286	41.170	10/19/17 8:00	41.284	40.943
10/15/17 14:00	41.269	41.121	10/19/17 10:00	41.220	40.934
10/15/17 16:00	41.186	41.077	10/19/17 12:00	41.267	40.929
10/15/17 18:00	41.204	41.077	10/19/17 14:00	41.249	40.896
10/15/17 20:00	41.233	41.088	10/19/17 16:00	41.140	40.844
10/15/17 22:00	41.178	41.072	10/19/17 18:00	41.203	40.866
10/16/17 0:00	41.211	41.091	10/19/17 20:00	41.237	40.882
10/16/17 2:00	41.224	41.086	10/19/17 22:00	41.163	40.873
10/16/17 4:00	41.162	41.048	10/20/17 0:00	41.235	40.898
10/16/17 6:00	41.182	41.060	10/20/17 2:00	41.230	40.887
10/16/17 8:00	41.192	41.053	10/20/17 4:00	41.142	40.844
10/16/17 10:00	41.135	41.030	10/20/17 6:00	41.189	40.847
10/16/17 12:00	41.141	41.009	10/20/17 8:00	41.192	40.842
10/16/17 14:00	41.119	40.959	10/20/17 10:00	41.105	40.809
10/16/17 16:00	41.036	40.910	10/20/17 12:00	41.137	40.774
10/16/17 18:00	41.065	40.919	10/20/17 14:00	41.112	40.706
10/16/17 20:00	41.099	40.936	10/20/17 16:00	41.023	40.720
10/16/17 22:00	41.053	40.919	10/20/17 18:00	41.090	40.727
10/17/17 0:00	41.087	40.941	10/20/17 20:00	41.111	40.751
10/17/17 2:00	41.097	40.941	10/20/17 22:00	41.037	40.727
10/17/17 4:00	41.044	40.910	10/21/17 0:00	41.112	40.720
10/17/17 6:00	41.083	40.938	10/21/17 2:00	41.088	40.725
10/17/17 8:00	41.106	40.952	10/21/17 4:00	41.025	40.708

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
10/17/17 10:00	41.064	40.943	10/21/17 6:00	41.101	40.734
10/17/17 12:00	41.089	40.943	10/21/17 8:00	41.136	40.776
10/17/17 14:00	41.081	40.919	10/21/17 10:00	41.134	40.844
10/17/17 16:00	41.011	40.966	10/21/17 12:00	41.241	40.919
10/17/17 18:00	41.176	40.894	10/21/17 14:00	41.287	40.950
10/17/17 20:00	41.153	40.898	10/21/17 16:00	41.227	40.962
10/17/17 22:00	41.106	40.882	10/21/17 18:00	41.301	40.992
10/18/17 0:00	41.128	40.884	10/21/17 20:00	41.352	41.032
10/18/17 2:00	41.119	40.875	10/21/17 22:00	41.279	41.009
10/18/17 4:00	41.077	40.851	10/22/17 0:00	41.335	41.032
10/18/17 6:00	41.118	40.870	10/22/17 2:00	41.340	41.023
10/18/17 8:00	41.126	40.882	10/22/17 4:00	41.287	41.023
10/18/17 10:00	41.092	40.882	10/22/17 6:00	41.358	41.060
10/18/17 12:00	41.130	40.901	10/22/17 8:00	41.361	41.048
10/22/17 10:00	41.299	41.037	10/26/17 6:00	41.048	40.704
10/22/17 12:00	41.332	41.034	10/26/17 8:00	41.076	40.751
10/22/17 14:00	41.314	40.985	10/26/17 10:00	41.079	40.816
10/22/17 16:00	41.200	40.929	10/26/17 12:00	41.102	40.858
10/22/17 18:00	41.250	40.938	10/26/17 14:00	41.260	40.922
10/22/17 20:00	41.269	40.938	10/26/17 16:00	41.238	40.959
10/22/17 22:00	41.176	40.905	10/26/17 18:00	41.289	41.011
10/23/17 0:00	41.228	40.910	10/26/17 20:00	41.364	41.044
10/23/17 2:00	41.225	40.908	10/26/17 22:00	41.312	41.055
10/23/17 4:00	41.138	40.861	10/27/17 0:00	41.340	41.072
10/23/17 6:00	41.244	40.943	10/27/17 2:00	41.367	41.046
10/23/17 8:00	41.310	41.009	10/27/17 4:00	41.279	41.016
10/23/17 10:00	41.259	41.023	10/27/17 6:00	41.288	41.016
10/23/17 12:00	41.335	41.060	10/27/17 8:00	41.322	40.999
10/23/17 14:00	41.337	41.037	10/27/17 10:00	41.259	41.009
10/23/17 16:00	41.259	41.006	10/27/17 12:00	41.267	40.999
10/23/17 18:00	41.313	41.030	10/27/17 14:00	41.275	40.952
10/23/17 20:00	41.358	41.060	10/27/17 16:00	41.193	40.924
10/23/17 22:00	41.294	41.048	10/27/17 18:00	41.208	40.938
10/24/17 0:00	41.334	41.048	10/27/17 20:00	41.277	40.957
10/24/17 2:00	41.336	41.039	10/27/17 22:00	41.211	40.962
10/24/17 4:00	41.268	41.013	10/28/17 0:00	41.217	40.959
10/24/17 6:00	41.319	41.037	10/28/17 2:00	41.257	40.938
10/24/17 8:00	41.341	41.051	10/28/17 4:00	41.190	40.934
10/24/17 10:00	41.237	40.917	10/28/17 6:00	41.203	40.931
10/24/17 12:00	41.342	41.109	10/28/17 8:00	41.238	40.922
10/24/17 14:00	41.315	41.023	10/28/17 10:00	41.168	40.912
10/24/17 16:00	41.229	40.980	10/28/17 12:00	41.177	40.891
10/24/17 18:00	41.269	40.983	10/28/17 14:00	41.107	40.847
10/24/17 20:00	41.289	40.980	10/28/17 16:00	41.051	40.793
10/24/17 22:00	41.201	40.945	10/28/17 18:00	41.134	40.802
10/25/17 0:00	41.236	40.936	10/28/17 20:00	41.083	40.800
10/25/17 2:00	41.226	40.919	10/28/17 22:00	41.054	40.793

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
10/25/17 4:00	41.129	40.863	10/29/17 0:00	41.152	40.807
10/25/17 6:00	41.175	40.866	10/29/17 2:00	41.071	40.781
10/25/17 8:00	41.167	40.849	10/29/17 4:00	41.030	40.760
10/25/17 10:00	41.094	40.826	10/29/17 6:00	41.116	40.760
10/25/17 12:00	41.139	40.821	10/29/17 8:00	41.038	40.755
10/25/17 14:00	41.103	40.776	10/29/17 10:00	41.015	40.751
10/25/17 16:00	41.007	40.722	10/29/17 12:00	41.085	40.739
10/25/17 18:00	41.053	40.718	10/29/17 14:00	41.009	40.708
10/25/17 20:00	41.051	40.711	10/29/17 16:00	40.979	40.699
10/25/17 22:00	40.977	40.680	10/29/17 18:00	41.146	40.798
10/26/17 0:00	41.036	40.678	10/29/17 20:00	41.159	40.870
10/26/17 2:00	41.036	40.697	10/29/17 22:00	41.142	40.884
10/26/17 4:00	40.951	40.654	10/30/17 0:00	41.244	40.912
10/30/17 2:00	41.207	40.919	11/2/17 22:00	41.255	41.011
10/30/17 4:00	41.184	40.936	11/3/17 0:00	41.330	41.020
10/30/17 6:00	41.290	40.964	11/3/17 2:00	41.275	41.004
10/30/17 8:00	41.250	40.976	11/3/17 4:00	41.228	40.980
10/30/17 10:00	41.230	40.990	11/3/17 6:00	41.327	41.018
10/30/17 12:00	41.308	41.004	11/3/17 8:00	41.267	41.002
10/30/17 14:00	41.250	40.976	11/3/17 10:00	41.218	40.971
10/30/17 16:00	41.211	40.966	11/3/17 12:00	41.268	40.957
10/30/17 18:00	41.301	40.980	11/3/17 14:00	41.162	40.882
10/30/17 20:00	41.273	41.009	11/3/17 16:00	41.092	40.823
10/30/17 22:00	41.239	41.002	11/3/17 18:00	41.175	40.835
10/31/17 0:00	41.319	41.006	11/3/17 20:00	41.117	40.840
10/31/17 2:00	41.256	40.978	11/3/17 22:00	41.087	40.828
10/31/17 4:00	41.206	40.955	11/4/17 0:00	41.172	40.828
10/31/17 6:00	41.279	40.950	11/4/17 2:00	41.095	40.816
10/31/17 8:00	41.198	40.917	11/4/17 4:00	41.051	40.793
10/31/17 10:00	41.164	40.910	11/4/17 6:00	41.141	40.798
10/31/17 12:00	41.252	40.908	11/4/17 8:00	41.069	40.797
10/31/17 14:00	41.235	40.821	11/4/17 10:00	41.042	40.793
10/31/17 16:00	41.266	40.783	11/4/17 12:00	41.117	40.779
10/31/17 18:00	41.271	40.765	11/4/17 14:00	41.019	40.739
10/31/17 20:00	41.040	40.744	11/4/17 16:00	40.962	40.701
10/31/17 22:00	40.977	40.711	11/4/17 18:00	41.065	40.713
11/1/17 0:00	41.062	40.706	11/4/17 20:00	40.995	40.706
11/1/17 2:00	40.974	40.678	11/4/17 22:00	40.948	40.685
11/1/17 4:00	40.932	40.654	11/5/17 0:00	41.057	40.706
11/1/17 6:00	41.006	40.629	11/5/17 2:00	41.035	40.762
11/1/17 8:00	40.935	40.645	11/5/17 4:00	41.055	40.805
11/1/17 10:00	40.935	40.664	11/5/17 6:00	41.158	40.835
11/1/17 12:00	41.048	40.692	11/5/17 8:00	41.126	40.863
11/1/17 14:00	40.957	40.664	11/5/17 10:00	41.128	40.894
11/1/17 16:00	40.922	40.647	11/5/17 12:00	41.227	40.919
11/1/17 18:00	41.040	40.678	11/5/17 14:00	41.158	40.884
11/1/17 20:00	40.986	40.692	11/5/17 16:00	41.118	40.877

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
11/1/17 22:00	40.967	40.697	11/5/17 18:00	41.225	40.896
11/2/17 0:00	41.084	40.725	11/5/17 20:00	41.179	40.905
11/2/17 2:00	41.019	40.730	11/5/17 22:00	41.160	40.922
11/2/17 4:00	41.034	40.774	11/6/17 0:00	41.262	40.945
11/2/17 6:00	41.175	40.830	11/6/17 2:00	41.197	40.934
11/2/17 8:00	41.147	40.884	11/6/17 4:00	41.171	40.919
11/2/17 10:00	41.176	40.943	11/6/17 6:00	41.249	40.934
11/2/17 12:00	41.296	40.994	11/6/17 8:00	41.193	40.929
11/2/17 14:00	41.231	40.959	11/6/17 10:00	41.178	40.936
11/2/17 16:00	41.202	40.950	11/6/17 12:00	41.242	40.919
11/2/17 18:00	41.300	40.983	11/6/17 14:00	41.153	40.882
11/2/17 20:00	41.282	41.013	11/6/17 16:00	41.108	40.849
11/6/17 18:00	41.197	40.863	11/10/17 14:00	41.026	40.751
11/6/17 20:00	41.151	40.880	11/10/17 16:00	40.967	40.713
11/6/17 22:00	41.143	40.901	11/10/17 18:00	41.068	40.727
11/7/17 0:00	41.247	40.929	11/10/17 20:00	41.015	40.746
11/7/17 2:00	41.207	40.945	11/10/17 22:00	40.976	40.730
11/7/17 4:00	41.186	40.943	11/11/17 0:00	41.080	40.741
11/7/17 6:00	41.278	40.976	11/11/17 2:00	40.991	40.720
11/7/17 8:00	41.236	40.983	11/11/17 4:00	40.959	40.711
11/7/17 10:00	41.228	40.997	11/11/17 6:00	41.066	40.718
11/7/17 12:00	41.296	40.992	11/11/17 8:00	40.991	40.725
11/7/17 14:00	41.236	40.978	11/11/17 10:00	40.973	40.725
11/7/17 16:00	41.176	40.929	11/11/17 12:00	41.125	40.744
11/7/17 18:00	41.261	40.945	11/11/17 14:00	41.114	40.727
11/7/17 20:00	41.217	40.948	11/11/17 16:00	41.125	40.727
11/7/17 22:00	41.178	40.936	11/11/17 18:00	41.200	40.783
11/8/17 0:00	41.265	40.952	11/11/17 20:00	41.069	40.819
11/8/17 2:00	41.198	40.934	11/11/17 22:00	41.029	40.837
11/8/17 4:00	41.161	40.915	11/12/17 0:00	41.087	40.866
11/8/17 6:00	41.232	40.912	11/12/17 2:00	41.013	40.873
11/8/17 8:00	41.165	40.903	11/12/17 4:00	41.122	40.884
11/8/17 10:00	41.125	40.887	11/12/17 6:00	41.227	40.917
11/8/17 12:00	41.194	40.863	11/12/17 8:00	41.186	40.936
11/8/17 14:00	41.084	40.802	11/12/17 10:00	41.179	40.955
11/8/17 16:00	41.015	40.758	11/12/17 12:00	41.268	40.966
11/8/17 18:00	41.124	40.781	11/12/17 14:00	41.178	40.915
11/8/17 20:00	41.060	40.790	11/12/17 16:00	41.122	40.882
11/8/17 22:00	41.029	40.788	11/12/17 18:00	41.217	40.894
11/9/17 0:00	41.144	40.809	11/12/17 20:00	41.162	40.905
11/9/17 2:00	41.077	40.812	11/12/17 22:00	41.124	40.891
11/9/17 4:00	41.063	40.821	11/13/17 0:00	41.202	40.887
11/9/17 6:00	41.206	40.880	11/13/17 2:00	41.123	40.866
11/9/17 8:00	41.151	40.898	11/13/17 4:00	41.087	40.847
11/9/17 10:00	41.143	40.915	11/13/17 6:00	41.169	40.840
11/9/17 12:00	41.238	40.929	11/13/17 8:00	41.078	40.821
11/9/17 14:00	41.158	40.896	11/13/17 10:00	41.051	40.809

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
11/9/17 16:00	41.107	40.866	11/13/17 12:00	41.129	40.802
11/9/17 18:00	41.201	40.880	11/13/17 14:00	41.022	40.753
11/9/17 20:00	41.150	40.896	11/13/17 16:00	40.971	40.718
11/9/17 22:00	41.116	40.868	11/13/17 18:00	41.078	40.734
11/10/17 0:00	41.210	40.884	11/13/17 20:00	41.019	40.750
11/10/17 2:00	41.134	40.877	11/13/17 22:00	40.990	40.746
11/10/17 4:00	41.099	40.856	11/14/17 0:00	41.085	40.746
11/10/17 6:00	41.186	40.856	11/14/17 2:00	40.988	40.718
11/10/17 8:00	41.096	40.835	11/14/17 4:00	40.947	40.694
11/10/17 10:00	41.068	40.830	11/14/17 6:00	41.052	40.706
11/10/17 12:00	41.146	40.821	11/14/17 8:00	40.995	40.697
11/14/17 10:00	41.022	40.687	11/18/17 6:00	40.950	40.835
11/14/17 12:00	41.181	40.697	11/18/17 8:00	40.812	40.887
11/14/17 14:00	41.182	40.638	11/18/17 10:00	40.755	40.915
11/14/17 16:00	41.182	40.619	11/18/17 12:00	40.968	40.969
11/14/17 18:00	41.260	40.645	11/18/17 14:00	41.184	40.931
11/14/17 20:00	41.127	40.673	11/18/17 16:00	41.149	40.922
11/14/17 22:00	40.990	40.694	11/18/17 18:00	41.236	40.931
11/15/17 0:00	41.014	40.753	11/18/17 20:00	41.197	40.948
11/15/17 2:00	41.038	40.772	11/18/17 22:00	41.173	40.941
11/15/17 4:00	41.062	40.837	11/19/17 0:00	41.250	40.945
11/15/17 6:00	41.175	40.858	11/19/17 2:00	41.174	40.917
11/15/17 8:00	41.126	40.875	11/19/17 4:00	41.148	40.908
11/15/17 10:00	41.122	40.901	11/19/17 6:00	41.219	40.901
11/15/17 12:00	41.210	40.903	11/19/17 8:00	41.131	40.872
11/15/17 14:00	41.116	40.851	11/19/17 10:00	41.094	40.861
11/15/17 16:00	41.063	40.830	11/19/17 12:00	41.167	40.844
11/15/17 18:00	41.158	40.830	11/19/17 14:00	41.040	40.769
11/15/17 20:00	41.085	40.828	11/19/17 16:00	40.974	40.725
11/15/17 22:00	41.054	40.819	11/19/17 18:00	41.069	40.730
11/16/17 0:00	41.155	40.826	11/19/17 20:00	40.993	40.722
11/16/17 2:00	41.055	40.805	11/19/17 22:00	40.948	40.701
11/16/17 4:00	41.016	40.774	11/20/17 0:00	41.040	40.694
11/16/17 6:00	41.121	40.786	11/20/17 2:00	40.947	40.676
11/16/17 8:00	41.029	40.774	11/20/17 4:00	40.908	40.659
11/16/17 10:00	40.988	40.746	11/20/17 6:00	41.014	40.666
11/16/17 12:00	41.060	40.720	11/20/17 8:00	40.918	40.654
11/16/17 14:00	40.930	40.659	11/20/17 10:00	40.889	40.647
11/16/17 16:00	40.887	40.629	11/20/17 12:00	40.998	40.652
11/16/17 18:00	40.999	40.650	11/20/17 14:00	40.888	40.608
11/16/17 20:00	40.913	40.650	11/20/17 16:00	40.840	40.584
11/16/17 22:00	40.883	40.638	11/20/17 18:00	40.973	40.619
11/17/17 0:00	40.985	40.629	11/20/17 20:00	40.920	40.652
11/17/17 2:00	40.881	40.603	11/20/17 22:00	40.900	40.654
11/17/17 4:00	40.817	40.568	11/21/17 0:00	41.031	40.694
11/17/17 6:00	40.940	40.582	11/21/17 2:00	40.950	40.697
11/17/17 8:00	40.847	40.568	11/21/17 4:00	40.965	40.727

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
11/17/17 10:00	40.822	40.572	11/21/17 6:00	41.091	40.765
11/17/17 12:00	40.942	40.584	11/21/17 8:00	41.109	40.873
11/17/17 14:00	40.840	40.556	11/21/17 10:00	41.144	40.938
11/17/17 16:00	40.803	40.556	11/21/17 12:00	41.271	40.987
11/17/17 18:00	40.941	40.586	11/21/17 14:00	41.225	40.983
11/17/17 20:00	40.888	40.617	11/21/17 16:00	41.202	40.980
11/17/17 22:00	40.863	40.622	11/21/17 18:00	41.278	40.978
11/18/17 0:00	41.023	40.687	11/21/17 20:00	41.227	40.971
11/18/17 2:00	40.983	40.718	11/21/17 22:00	41.202	40.966
11/18/17 4:00	40.963	40.776	11/22/17 0:00	41.275	40.971
11/22/17 2:00	41.206	40.959	11/25/17 22:00	41.067	40.833
11/22/17 4:00	41.154	40.915	11/26/17 0:00	41.174	40.854
11/22/17 6:00	41.221	40.896	11/26/17 2:00	41.079	40.833
11/22/17 8:00	41.130	40.882	11/26/17 4:00	41.061	40.821
11/22/17 10:00	41.094	40.854	11/26/17 6:00	41.139	40.807
11/22/17 12:00	41.146	40.826	11/26/17 8:00	41.037	40.795
11/22/17 14:00	41.015	40.755	11/26/17 10:00	41.023	40.788
11/22/17 16:00	40.969	40.711	11/26/17 12:00	41.115	40.793
11/22/17 18:00	41.066	40.730	11/26/17 14:00	41.004	40.746
11/22/17 20:00	40.993	40.727	11/26/17 16:00	40.948	40.699
11/22/17 22:00	40.973	40.725	11/26/17 18:00	41.040	40.704
11/23/17 0:00	41.076	40.734	11/26/17 20:00	40.963	40.708
11/23/17 2:00	40.981	40.727	11/26/17 22:00	40.929	40.687
11/23/17 4:00	40.971	40.720	11/27/17 0:00	41.028	40.692
11/23/17 6:00	41.072	40.734	11/27/17 2:00	40.918	40.664
11/23/17 8:00	40.993	40.737	11/27/17 4:00	40.891	40.645
11/23/17 10:00	40.987	40.744	11/27/17 6:00	40.990	40.638
11/23/17 12:00	41.067	40.739	11/27/17 8:00	40.873	40.622
11/23/17 14:00	40.950	40.685	11/27/17 10:00	40.844	40.598
11/23/17 16:00	40.895	40.640	11/27/17 12:00	40.942	40.603
11/23/17 18:00	41.005	40.650	11/27/17 14:00	40.800	40.530
11/23/17 20:00	40.913	40.636	11/27/17 16:00	40.755	40.500
11/23/17 22:00	40.868	40.615	11/27/17 18:00	40.890	40.528
11/24/17 0:00	40.965	40.615	11/27/17 20:00	40.830	40.563
11/24/17 2:00	40.868	40.601	11/27/17 22:00	40.792	40.544
11/24/17 4:00	40.833	40.579	11/28/17 0:00	40.923	40.568
11/24/17 6:00	40.937	40.577	11/28/17 2:00	40.854	40.589
11/24/17 8:00	40.844	40.584	11/28/17 4:00	40.901	40.673
11/24/17 10:00	40.826	40.582	11/28/17 6:00	41.079	40.767
11/24/17 12:00	40.946	40.605	11/28/17 8:00	41.059	40.823
11/24/17 14:00	40.862	40.612	11/28/17 10:00	41.085	40.863
11/24/17 16:00	40.900	40.657	11/28/17 12:00	41.203	40.912
11/24/17 18:00	41.037	40.706	11/28/17 14:00	41.082	40.887
11/24/17 20:00	41.023	40.774	11/28/17 16:00	41.166	40.903
11/24/17 22:00	41.047	40.823	11/28/17 18:00	41.232	40.926
11/25/17 0:00	41.155	40.844	11/28/17 20:00	41.191	40.938
11/25/17 2:00	41.097	40.847	11/28/17 22:00	41.243	40.959

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
11/25/17 4:00	41.079	40.840	11/29/17 0:00	41.246	40.938
11/25/17 6:00	41.189	40.875	11/29/17 2:00	41.162	40.903
11/25/17 8:00	41.106	40.863	11/29/17 4:00	41.172	40.880
11/25/17 10:00	41.105	40.875	11/29/17 6:00	41.071	40.844
11/25/17 12:00	41.207	40.903	11/29/17 8:00	41.099	40.828
11/25/17 14:00	41.108	40.856	11/29/17 10:00	41.135	40.823
11/25/17 16:00	41.069	40.833	11/29/17 12:00	41.019	40.774
11/25/17 18:00	41.151	40.833	11/29/17 14:00	41.009	40.722
11/25/17 20:00	41.089	40.842	11/29/17 16:00	41.034	40.713
11/29/17 18:00	41.068	40.737	12/3/17 14:00	40.818	40.542
11/29/17 20:00	41.028	40.767	12/3/17 16:00	40.844	40.502
11/29/17 22:00	41.099	40.805	12/3/17 18:00	40.833	40.490
11/30/17 0:00	41.129	40.819	12/3/17 20:00	40.759	40.476
11/30/17 2:00	41.105	40.849	12/3/17 22:00	40.816	40.476
11/30/17 4:00	41.159	40.868	12/4/17 0:00	40.786	40.450
11/30/17 6:00	41.178	40.866	12/4/17 2:00	40.726	40.450
11/30/17 8:00	41.128	40.870	12/4/17 4:00	40.825	40.481
11/30/17 10:00	41.173	40.877	12/4/17 6:00	40.735	40.486
11/30/17 12:00	41.103	40.842	12/4/17 8:00	40.856	40.575
11/30/17 14:00	41.083	40.800	12/4/17 10:00	40.953	40.626
11/30/17 16:00	41.081	40.762	12/4/17 12:00	40.993	40.673
11/30/17 18:00	41.063	40.732	12/4/17 14:00	40.982	40.711
11/30/17 20:00	41.020	40.739	12/4/17 16:00	41.093	40.793
11/30/17 22:00	41.062	40.741	12/4/17 18:00	41.161	40.851
12/1/17 0:00	41.051	40.718	12/4/17 20:00	41.127	40.889
12/1/17 2:00	40.977	40.704	12/4/17 22:00	41.214	40.929
12/1/17 4:00	41.021	40.706	12/5/17 0:00	41.223	40.917
12/1/17 6:00	41.001	40.683	12/5/17 2:00	41.145	40.884
12/1/17 8:00	40.948	40.676	12/5/17 4:00	41.182	40.887
12/1/17 10:00	41.002	40.683	12/5/17 6:00	41.179	40.870
12/1/17 12:00	40.975	40.666	12/5/17 8:00	41.142	40.884
12/1/17 14:00	40.901	40.626	12/5/17 10:00	41.191	40.901
12/1/17 16:00	40.958	40.631	12/5/17 12:00	41.169	40.866
12/1/17 18:00	40.970	40.652	12/5/17 14:00	41.079	40.809
12/1/17 20:00	40.966	40.701	12/5/17 16:00	41.093	40.788
12/1/17 22:00	41.032	40.722	12/5/17 18:00	41.089	40.783
12/2/17 0:00	41.031	40.720	12/5/17 20:00	41.048	40.774
12/2/17 2:00	40.991	40.732	12/5/17 22:00	41.102	40.793
12/2/17 4:00	41.048	40.739	12/6/17 0:00	41.115	40.807
12/2/17 6:00	41.029	40.722	12/6/17 2:00	41.086	40.819
12/2/17 8:00	41.028	40.751	12/6/17 4:00	41.132	40.830
12/2/17 10:00	41.085	40.779	12/6/17 6:00	41.126	40.821
12/2/17 12:00	41.069	40.762	12/6/17 8:00	41.095	40.835
12/2/17 14:00	40.983	40.720	12/6/17 10:00	41.153	40.858
12/2/17 16:00	41.019	40.701	12/6/17 12:00	41.151	40.840
12/2/17 18:00	41.024	40.708	12/6/17 14:00	41.079	40.802
12/2/17 20:00	40.985	40.722	12/6/17 16:00	41.106	40.800

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
12/2/17 22:00	41.041	40.730	12/6/17 18:00	41.141	40.833
12/3/17 0:00	41.035	40.715	12/6/17 20:00	41.132	40.882
12/3/17 2:00	40.962	40.694	12/6/17 22:00	41.204	40.910
12/3/17 4:00	41.001	40.690	12/7/17 0:00	41.213	40.903
12/3/17 6:00	40.967	40.662	12/7/17 2:00	41.146	40.889
12/3/17 8:00	40.926	40.664	12/7/17 4:00	41.196	40.894
12/3/17 10:00	40.971	40.652	12/7/17 6:00	41.159	40.858
12/3/17 12:00	40.941	40.615	12/7/17 8:00	41.113	40.854
12/7/17 10:00	41.155	40.851	12/11/17 6:00	40.946	40.483
12/7/17 12:00	41.140	40.837	12/11/17 8:00	40.947	40.680
12/7/17 14:00	41.040	40.769	12/11/17 10:00	41.018	40.697
12/7/17 16:00	41.052	40.737	12/11/17 12:00	41.004	40.704
12/7/17 18:00	41.020	40.699	12/11/17 14:00	40.963	40.694
12/7/17 20:00	40.965	40.683	12/11/17 16:00	41.038	40.732
12/7/17 22:00	40.991	40.664	12/11/17 18:00	41.069	40.772
12/8/17 0:00	40.971	40.640	12/11/17 20:00	41.058	40.800
12/8/17 2:00	40.888	40.608	12/11/17 22:00	41.127	40.823
12/8/17 4:00	40.932	40.605	12/12/17 0:00	41.127	40.819
12/8/17 6:00	40.907	40.594	12/12/17 2:00	41.079	40.812
12/8/17 8:00	40.881	40.610	12/12/17 4:00	41.121	40.812
12/8/17 10:00	40.981	40.659	12/12/17 6:00	41.080	40.769
12/8/17 12:00	40.975	40.669	12/12/17 8:00	41.036	40.760
12/8/17 14:00	40.937	40.652	12/12/17 10:00	41.057	40.751
12/8/17 16:00	40.966	40.643	12/12/17 12:00	41.021	40.706
12/8/17 18:00	40.979	40.647	12/12/17 14:00	40.931	40.652
12/8/17 20:00	40.923	40.650	12/12/17 16:00	40.933	40.603
12/8/17 22:00	40.985	40.664	12/12/17 18:00	40.901	40.577
12/9/17 0:00	41.003	40.678	12/12/17 20:00	40.836	40.554
12/9/17 2:00	40.960	40.694	12/12/17 22:00	40.863	40.549
12/9/17 4:00	41.024	40.713	12/13/17 0:00	40.843	40.509
12/9/17 6:00	41.012	40.701	12/13/17 2:00	40.773	40.500
12/9/17 8:00	41.006	40.730	12/13/17 4:00	40.830	40.518
12/9/17 10:00	41.068	40.758	12/13/17 6:00	40.868	40.551
12/9/17 12:00	41.087	40.781	12/13/17 8:00	40.854	40.596
12/9/17 14:00	41.004	40.737	12/13/17 10:00	40.930	40.617
12/9/17 16:00	41.037	40.732	12/13/17 12:00	40.934	40.631
12/9/17 18:00	41.035	40.720	12/13/17 14:00	40.884	40.617
12/9/17 20:00	40.992	40.720	12/13/17 16:00	40.932	40.605
12/9/17 22:00	41.022	40.708	12/13/17 18:00	40.962	40.626
12/10/17 0:00	41.018	40.706	12/13/17 20:00	40.928	40.652
12/10/17 2:00	40.977	40.708	12/13/17 22:00	40.978	40.680
12/10/17 4:00	41.036	40.722	12/14/17 0:00	41.002	40.694
12/10/17 6:00	41.006	40.711	12/14/17 2:00	40.972	40.711
12/10/17 8:00	40.993	40.730	12/14/17 4:00	41.032	40.734
12/10/17 10:00	41.066	40.746	12/14/17 6:00	41.022	40.704
12/10/17 12:00	41.062	40.746	12/14/17 8:00	40.979	40.713
12/10/17 14:00	40.990	40.722	12/14/17 10:00	41.016	40.725

TABLE S.11 Automatically measured groundwater levels at GW2 and GW5.

Date/Time	GW2 ft TOC	GW5 ft TOC	Date/Time	GW2 ft TOC	GW5 ft TOC
12/10/17 16:00	41.035	40.708	12/14/17 12:00	41.020	40.720
12/10/17 18:00	41.013	40.697	12/14/17 14:00	40.950	40.692
12/10/17 20:00	40.966	40.692	12/14/17 16:00	41.016	40.711
12/10/17 22:00	41.021	40.694	12/14/17 18:00	41.157	40.741
12/11/17 0:00	41.005	40.685	12/14/17 20:00	41.039	40.830
12/11/17 2:00	40.945	40.673	12/14/17 22:00	41.090	40.802
12/11/17 4:00	41.004	40.678	12/15/17 0:00	41.080	40.779
12/15/17 2:00	41.019	40.760			
12/15/17 4:00	41.050	40.753			
12/15/17 6:00	41.023	40.722			
12/15/17 8:00	40.962	40.699			
12/15/17 10:00	40.970	40.676			

AGEM Team at Argonne

AGEM Staff Member	AGEM Role
Lorraine M. LaFreniere, Ph.D. Principal Geological Engineer	Program Manager
Jorge S. Alvarado, Ph.D. Chemist	Laboratory Manager and Analyst
Esther E. Bowen, M.S. Data Management Specialist	Quality Assurance/Quality Control and Records Manager
Laurel A. Culbert, B.A. Graphic Artist/Designer	Report Graphics and Maps (including GIS)
James Hansen, B.A. Program Coordinator/Manager	Site Reconnaissance and Community Relations
Louis E. Martino, M.S. Environmental Systems Engineer/Program Manager	Technical Lead/Remediation Specialist (Cost Engineering)
Terri Patton, M.S. Principal Geologist	Technical Editor
Candace M. Rose, B.S. Scientific Associate Senior	Laboratory Analyst
Robert A. Sedivy, M.S. Hydrogeologist	Technical Lead/Hydrogeologist
Eugene Y. Yan, Ph.D. Earth Scientist	Technical Lead/Hydrogeologist

Environmental Science Division

Argonne National Laboratory
9700 South Cass Avenue, Bldg. 203
Argonne, IL 60439-4843
www.anl.gov

U.S. DEPARTMENT OF
ENERGY

Argonne National Laboratory is a U.S. Department of Energy
laboratory managed by UChicago Argonne, LLC